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$(3, 1)$ [DOZ94]. (m, l, s) [BL99]. -1 [Cum96]. 1 [FF05, GT14, Han05, JRS15, NV10, NSW16, TZ07]. $1 < p < \infty$ [LWY06]. 2 [Boc04, DL98, GM14, HKR04, Lee03, Möß10, Pot04]. 2.1933 [Pla00]. 3 [CK11, GL13, Hem95, Hem96, HS13, MU14, VW02, vdHS00]. 4 [Han98, Jia11]. $4n$ [SC08]. 6 [DLUS17]. $[-1, 1]$ [CT05, CKK12]. ^{2} [WZJ18]. ^{3} [MRS22]. a [Pau26]. α [TTP25]. $Ax = b$ [Cul96]. c [Rip99, Sch11b]. C^0 [CFZ21, LLY26, SS14, WY20]. C^1 [DRV26, KST21, KJ09, LL04, LPSSP00, NZ04, NSZ04, Sab04, SS04, DL98]. C^2 [AF96, GSS22, Rem12]. C^3 [CGM01, CM03]. C^k [MSS02, PR99]. C^r [LLS96, LL98]. C^ρ [LLS94]. C^s [KV21]. d [DQS20, HX02, Rob98]. E [MP96, Pré94]. ℓ^1 [GN08, GS13, MZ13]. ℓ_1 [SHTS14, ZYY16]. $\ell_1, 2$ [Fli18]. $F(z + 1) = b^{F(z)}$ [PC17]. F_A [BW15]. F_D [BW15, TZ05]. GC_n [HV19a, HV19b, BH17]. H [Dai16, MS00, Peñ11, GH06, Xu04a, ZQ13, ZG16]. $H(\mathrm{div})$ [DMS22]. H^{-1} [She09]. H^1 [HS20, ZJZ21]. H^p_F [HLT11]. H_1 [MSS02]. $H_2(\overline{\Omega}, \partial\Omega; \mathbf{Z})$ [RBGS18]. hp [MW01]. $L(\theta)$ [PR26]. L^2 [BMLC26, CLZ02, LL10, LL12b, MS16, WQP23, ZW23a]. $L^2(\mathbf{R})$ [CHL17]. $L^2(\mathbf{R}^d)$ [CR08]. L^∞ [Noa14]. L^p [War13, RS99, BR23]. $L^p(\mathbf{R})$ [LWY06]. $L^p(\mathbf{R}^n)$ [PS23]. l^q [BR23]. L_0 [TGA96]. L_1 [LW04, DSS09]. L_2 [KSUW23, DSS09]. $L_2(\mathbf{R})$ [Atr12]. L_p [Jia95, LWZ19]. $L_p(\mathbf{R}^d)$ [DL04]. L_q [LLHYN24, LWZ19]. L_r [CDP09]. M [CTZ02, Jia00, Tem98]. $\mathbf{R}^3$ [BST24]. $\mathbf{R}^d$ [War13]. $\mathbf{R}^n$ [HNN23, Sor18]. $\mathbf{S}^3$ [Grä12]. $\mathcal{D}$

[BGT26]. $\mathcal{H}$ [AFM23, FMP22]. $\mathcal{H}_{\in}$ [BGH15, BCS19, BB24]. $\mathcal{H}$ [KM19]. N [AGU25, HCF$^+$21, ZTHW22, BH17, DKLT93, SC08, UG19]. n_s [Han24a]. $O(N)$ [GM14, HCF$^+$21, ZTHW22]. P [Dai16, Peñ11, Tyg23, BG26, CGG$^+$20, CMM21, CS03, Don19, GH06, Jan98, SL12]. P_0 [ZT15]. P_1 [ZT15]. $\pi(x)$ [Kot08]. q [Rob98]. Q_1 [HW18, Zho26]. QR [CM99, LMV11, WW24]. $\mathbf{R}^2$ [KL00]. $\mathbf{R}^3$ [KL00]. s [Hes09, KL04, KL07]. S^2 [HL08, Hes09]. σ [SX07]. SO(3) [Grä12]. $t^i e^{\lambda t}$ [MPR22]. τ [gTpM02]. θ [MP18]. V [ZXC12]. ε [GH16]. φ [BEG22, WZtX16]. $\boldsymbol{P}_1 \oplus \boldsymbol{RT}_0$ [LLR24]. W [CGH$^+$96, IB17]. $z \uparrow\uparrow a$ [Pau26].

-AAA [BG26]. **-adaptive** [ZQ13, ZG16]. **-algorithm** [MP96, Pré94]. **-analysis** [ZYY16]. **-approximation** [KSUW23]. **-bases** [MS00]. **-channel** [Jia00]. **-conforming** [DMS22]. **-continuous** [WY20]. **-convergence** [CDP09]. **-d** [NV10, TZ07, DL98, FF05, VW02, JRS15]. **-dimensional** [DQS20, HCF$^+$21, ZTHW22]. **-energy** [Hes09]. **-error** [BGH15, WZJ18]. **-estimate** [CLZ02]. **-finite** [HW18, LLS96, Zho26]. **-fold** [Jia11]. **-frame** [CGG$^+$20]. **-Frames** [CS03]. **-function** [BEG22, IB17]. **-functions** [WZtX16]. **-fundamental** [LL98]. **-geometrically** [ZXC12]. **-harmonic** [Xu04a]. **-inverses** [AFM23]. **-isometry** [SL12]. **-matrices** [Dai16, Peñ11]. **-matrix** [FMP22, KM19]. **-method** [MP18]. **-methods** [gTpM02]. **-minimization** [Fli18]. **-monotone** [KL04, KL07]. **-norm** [BMLC26]. **-orthogonal** [SX07]. **-penalty** [GS13]. **-piecewise** [PR99]. **-point** [DLUS17, SC08]. **-poised** [BH17]. **-reconstructed** [LLY26]. **-refinable** [CTZ02]. **-regularization** [MZ13, SHTS14]. **-robust** [TTP25]. **-smooth** [KV21]. **-sphere** [HKR04, Pot04]. **-splines** [BL99, MSS02, NZ04]. **-stable** [BGT26, PR26, TGA96]. **-step** [Han24a]. **-subgradient** [GH16]. **-subspaces** [HLT11]. **-superconvergence** [ZSB01a]. **-synthesis** [ZYY16]. **-term** [Tem98]. **-values** [Tyg23]. **-version** [Don19, Jan98]. **-wave** [HX02]. **-weighted** [LLHYN24, MS16]. **-width** [AGU25]. **-widths** [DKLT93, UG19].

/fourth [FZLZ21]. **/volume** [LLLH23].

1 [BF94]. **19.07.1998** [Sil99]. **1D** [AK25, ATS19, BSK19, CHS21].

2 [DMBH24]. **2-chains** [RBGS18]. **29** [Fus08a]. **2D** [LRY23, LGQ24, MH22, RNT26, GQL24]. **2D/** [GQL24]. **2D/3D** [LGQ24].

3 [GHV25]. **3-D** [GHV25]. **3D** [ANGV19, BCC22, BBT25, CGHK23, GQL24, GSS22, LGQ24, SSH25, ZD18, ZH25]. **3D-VAR** [ANGV19].

4 [Hem96]. **409b** [CN96].

96c [Hem96].

a-posteriori [MRH15, SWH20]. **AAA** [BG26]. **Abel** [VNS18]. **Abel-type** [VNS18]. **ability** [Świ19]. **absence** [GM14]. **absorption** [NKL$^+$19]. **accelerate** [KKL$^+$22]. **Accelerated** [HQHV20, GM22]. **accelerating** [CMZ26]. **Acceleration** [Pré94, XY15, CV23, DMMS11, LZY98, LZ26, MP96, VMR26, WMB13, ZCY20, ZTHW22]. **accelerations** [Noa14]. **Accuracy** [FF05, ZCY20]. **Accurate** [HX21, MPR22, WWX18, Del17, GM22, GZ25, GJW20, HBMY14, HW19a, KCCV23, Qiu23, SJJY21, XZ24]. **acoustic** [ARPR01, BBR02, FKP26, GM22, HSSS18, HR02, LMRV23a, LMRV23b, LLL24, LL25, WKH25, ZP06, ZP24, Zam26].

acoustic-elastic [LLL24, LL25]. **across** [ZMQ23]. **action** [AG25, Las16]. **actions** [WW19]. **active** [KPY09, PDB24]. **active-set** [KPY09]. **Adams** [Wil98]. **adapted** [AL13, Che06, CZS16, GK19, GHLU19, LW23, RNT26, Str13]. **Adaptive** [Ano01b, AW24, BDD06, BMP+19, BDMR10, BLS02, CHP19, DFR07, DHV24, EOR18, FYL08, GDMS21, HMX22, Hol01, Kac18, KKL+22, KHM16, LC20, MSZ06, MJM23, PP97, QW11, RTV21, RWT13, WZM21, XZ03, ZW23b, AM24, ASU17, AU20, AHL25, APV14, ACPV21, AW26, BKN11, BMK15, BV24, BCE+09, BF94, CCE+12, DMMS11, Dũn11, Dũn12, FMH26, FaKT22, Gia20, HBH24, JZ24, KCW17, KESR22, KC16, LC18, LZL23, LLL24, LL25, LJL20, MSL21, RS19, RSZ11, SW96, SvVW22, Wan22, WBY24, WLPV15, XYZ21, ZL16, ZQ13, ZG16, ZW23c]. **adaptively** [GJS14]. **adaptivity** [AK01, CR23]. **adding** [RY13]. **additional** [CaL06]. **additive** [Bre95, PTC12]. **ADI** [FZLZ21, QX21]. **Adini** [MS19]. **adjacent** [Khl18]. **Adjoint** [LSLS14, BST24, FGO14, FMPS13, YZ24]. **adjustable** [SLC26]. **ADMM** [BC19, TY18]. **Adv.** [Fus08a, Hem96]. **advanced** [IJH26]. **Advances** [Ano02d, BOP+15, Ano03c, Ano04d, Ano04e, Ano04f, Ano05a, Ano05b, Ano16]. **advection** [CLZW13, CtTB21, LZCW21, LBI25, PR26, Zen19]. **advection-dominated** [LBI25]. **aerial** [ZB99]. **aeroacoustic** [CEL15]. **Affine** [CSS98, Jia03, CHSS03, Mai06, PW94]. **affine-invariant** [Mai06]. **age** [Kim06]. **age-structured** [Kim06]. **agent** [PSW24]. **agent-controlled** [PSW24]. **agglomerated** [CH22a]. **aggregated** [YB21]. **aggregation** [AL21]. **Airy** [dLL19]. **algebra** [BN19, BN21, BKN11, BP11, CLM02, FH05]. **Algebraic** [JF02, RSA14, RM19, CHS20, CGR13, CCLM21, DMMS11, FÁG19, Hau97, HF19, LMV11, Pan95, SXYY06]. **algebras** [Kni24]. **algorithm** [AKKN22, BG26, BMB14, BPK96, Bre19, CP99, Che02, CX04, zCpST09, CZS16, DM19b, DES21, DLK12, DGK15, DHWZ18, FKS05, Fou23, GL23, GM14, GR19, GIKV21, Han05, HHX18a, HHX18b, HCH20, HZHL12, HFH15, HCF+21, JZ10, KBL22, KPY09, KC16, LY21, LD07, LWZ19, LWWZ22, Maz07, MU14, MP96, Mur08, Pré94, QW11, Rip99, Rob98, RHZ17, SM24, Sid20, Ven94, nCV13, WW12, WLW16, XWL13, Yao19, ZSHZ15, ZTHW22, ZS24b, ZXC12, Zwi94, dH94, Yao19]. **Algorithmic** [Cai02, GH99]. **Algorithms** [Ano02d, FMR00, GN01, ACM+22, BGM93, BEPS96, CHM18, CDPS22, CW19, CWY25, DT96, DM23, DT12, FJ99, FRT09, Gon93, GN08, GH16, GS19b, GS25b, LLS09, LT06, Li04, LSXZ15, LKT18, LT12, MSZ06, MSXZ13, Sab04, SMK22, TQ24, Tem98, Tem00, Tem01, Tem02, VM17, VK96, WCL24, WLPV15, XZ01, Yin07, ZQS22, ZS21]. **all-electron** [SL15]. **all-frequency** [GHV25]. **Allen** [RWT13, GWC24, HS20, JlLZ20, KL22, LZL23, LZ25, LZlL26, QZX23]. **almost** [CJKK18, GP95, yGmW98]. **along** [FM18]. **alternate** [MP96]. **Alternating** [SYCJ18, TSV21, YF23, YKZ19]. **Alternative** [LPY10, Sch11b, SLT21]. **Ambient** [Mai20]. **American** [lZmCRX03]. **Ampère** [Awa15, CFZ21]. **analog** [LPY10]. **analyses** [KKL03, MNC16]. **Analysis** [ADL11, BS24, DSW20, GS18, GPS21, HT24, JS05, KS17, KvL95, KL16, KK26, Lee03, LLR24, LJL20, MO19, VW02, WZ19, WZ20a, ZXL24, dFGAJN18, AGN23, AHPP24, Ang00, AK15, BBB22, BSK19, BMSR+16, BBdD21, BC19, BSSM22, BEPS96, CDP03, CCSS09, CR23, CCG10, CBLZ26, Che06, CGH+13, CS19, CV23, CGHK23, CDM+24, CKW10, CsL18, DM22, DMBH24, DS24, DG13, DLZ16, FS25, Fin19,

Flo96a, FM04, FL24, GHV25, GAN20, GO26, Gat21, GRdSA19, GJMY19, GGRBRG21, yGW07, GL17, HMM21, HL20, JS21, JK08, KMSV24, KK05, KSWX24, KA97, Kum23, LP19, Lee16, LC21, LA22, Lev99, LKT18, LZ20b, LY21, LSY22, LMV11, LY08, Lut04, MH22, MS19, MWW13, Nie98, OS09, OBS15, Onc14, PM17, PLRGVR22, PS98, RMCCG$^+$19, RAB$^+$09, RHZ17, SM24, SXZ06, SLN14, SLC26, TY18, TZ03].
analysis
[TS05, VW05, WYW11, WXWL19, WW24, WlL26a, WZ10, WOBL17, XB05, Xu14, YDF97, YL24a, Yao16, YZLL24, Yem22, YXM23, Yin07, ZSB01b, ZGGW12, ZYY16, ZW23a, ZZCC24, ZL20, ZL21, ZW20, Zwi94].
Analytic [CCK20, CSW96, MXO13, Kot08, Pet00, RAB$^+$09, Sto96, ZR24]. **analyze** [FÁG19]. **Analyzing**
[Pau26, HLL25, KL15, LCC19]. **anchoring** [SJJY21]. **Anderson** [CV23, VMR26].
angled [MB96]. **angled-derivative** [MB96].
angular [SF14]. **Anisotropic**
[GKM$^+$20, BlH23, BSSM22, CtTB21, CGRS15, DKMT20, GO95, GQ22, HS03, HW18, Kun01, Pei05, WQP23, ZC14, Zho26].
annealer [IJH26]. **annihilating** [PP24].
Announcement [Ano01c]. **anomalous** [ZD17]. **ANOVA** [PW24]. **ansatz** [HP24].
antenna [SFDE15]. **antennas** [MKS02, Ryn00]. **Antisymmetric** [Jia03].
any [KXZ04, Mon09]. **Appell** [BCZ05].
Appending [Kun95]. **Application**
[FE15, LL12a, Nee96, lZmCRX03, AG25, AGN23, AHPP24, BEG17, BDD06, CLL08, CZS16, CGS93, DMN25, FRT09, yGSlX03, KF19, Li10a, LZ21, LD07, MSW$^+$22, MU14, PZ16, Pré94, RF19, SWH20, SL12, Svá19, Wal95, Yao19, YZLL24, YY25, ZGV22, ZL16, BBF$^+$24]. **applications**
[ABI15, ByLl01, CdGDN20, DST04, DNS21, DQS20, DS13, yGS08, HKR04, HAS05, HX17, IY22, JGW15, JW95, KSWX24, LP19, Low05, MRS18, RT14, RZ10, RSZ11, RQS26, SW06, Sto96, SQ26, TLG$^+$22, TX19, WW24, WZtX16, YTL$^+$20, vdHS00].
applied [AC05, BBB21, BBB22, BP11, BS24, CEL15, DRV26, Smo07, ZB12].
Applying [MGSS22]. **Approach**
[Zoz15b, AHK$^+$19, ANGV19, AC25, AR20, BBF$^+$24, BCS19, BPJ02, BKP20, CCSS09, CCNT21, CC24, CHRX06, CS18, DGMES13, DMN25, DKK22, ES23, FÁG19, FBDH19, FY13, FMH26, GHKL18, Grä12, HT12, HQR23, JKK$^+$12, KvD01, LSW17, Leo02, MMNM23, Pan95, PPH$^+$21, RLGGAV19, SBZR19, SLT21, Wal95, WM21, ZD14].
approaches [ZD17, Zoz15a].
approximability [FMP22, Fou23, KM19].
approximants [BCZ05, CDTV99, VK96].
Approximate [CLMR10, FPR$^+$12, FGO14, GN01, CWY25, FOW14, IMS99, JLZ08, KK05, Kim06, NBL11, Pan95, YY25].
approximated [CDP25, GLS15].
Approximately
[CJKK18, DM15, GGRBRG21].
approximating [CGR11, DM22].
Approximation
[AMM20, AB11, BDKY02, Bei23, BGN17, BR15, CP04, KP04, Le 05, Li09, Lut04, MZ22, Mha93, MNW99, NSW07, PR19, Pot04, SS16, SS08, SSK24, Xu04a, ZJ06, AS21, AK01, ASS10, ALS24, Ara20, AC25, BX94, BN21, BG26, BC99, BMK15, BS05, BW20, BEG22, BNPP20, BB24, BB25, BA15, BFCIV22, BW15, CLLS06, Cas07, CL07, CLM96b, CH22b, CP07b, CG17, DHV24, DPS93, Dar03, DMN25, DY01, EMU26, EGL13, FJ99, Flo96a, FHN94, Fur26, FW15, GHdN12, GK24, GZW18, GLX23, Grä12, GS10, yGmW98, HWS26, Han12, HMX22, HHKS24, HW00, HP24, IY22, JS21, KS20, KORS17, KKK24, KL04, KL07, KSUW23, KvD01, KP18, LP21, LS98, LW04, LW14, LT06, Li94, Li03, Li10a, Li10b, LLY26, LT98, LLHYN24, LB93, LG26, LL07b, LP14].
approximation [Mai20, MM00, Mai05, MN15, MRH15, MNW96, MWW13, MS04,

MS16, NW04, NS04, Nee96, NG99, NZ04, ON18b, PWL20, PW24, PS98, QZX23, SMK22, Spe17, TLG+22, TX19, Tem98, TYY11, TDG16, WZ20a, War13, WH07, WZ20b, YZB20, YF23, YCQZ24, YZ08, Yoo01, ZP19, ZCL20, ZW23b, ZW23c]. **approximations** [ALRÁY22, ByLl01, CCG10, CHS21, CW19, Che06, CGH+13, CJN18, DG13, DG16, ER21, FF05, GJU22, GHJZ23, yGSlX03, yGS08, HL05, HKW25, HR01, HX02, IB17, IMS99, JGW15, Kot08, MRS03, MNN25, Ryd19, Sid20, SU22, WXWL19, YLBL12, Ye00, ZZP23]. **arbitrarily** [Han10]. **Arbitrary** [KMSV24, ZJ23, CMP07a, CHR00, GH18, HW00, LW23, SL05, Ven94]. **arc** [Leo02]. **architecture** [Jan98]. **Area** [HR17, LLLH23]. **area-** [LLLH23]. **area-/volume-preserving** [LLLH23]. **arguments** [Bre19, MS22]. **arising** [AM14, BNP14, HLC26, JM00, LN14, LL99, LSXZ15, MV01, TBD94]. **Arnoldi** [WZtX16]. **array** [AH96]. **arrays** [Cal05, SFDE15]. **arriving** [AGGAV+19]. **arrowhead** [RDEG24]. **art** [FRT09]. **article** [BS23, Zoz15b]. **Artificial** [PRS24, An20b, Mha93]. **aspects** [BZA24a, BZA24b, Le 00, Sau95, Svá19, Yoo01, dB00]. **Assessment** [PJ20]. **asset** [PGB15]. **assimilation** [FL24, GAN20, KKP19]. **Associated** [GH03, ADL11, BM00, CW09, GRV22, HLT11, KA97, LLLH23, LPSSP00, NSW07]. **association** [New96]. **astrodynamics** [ABI15]. **asymmetric** [WSL+19]. **Asymptotic** [AV15, CL07, CV23, FL00, HWZ13, JLZ08, RL07, DHO16, DGS18, LL07a, MWW13, WG19]. **asymptotic/numerical** [WG19]. **asymptotical** [YZ25]. **Asymptotically** [FC25, TX19, TDG16, Kac18, LZlL26]. **Asymptotics** [IS13, DS01]. **asynchronous** [Tal19]. **Atmospheric** [CLM96a]. **Atomistic** [APK18]. **Atomistic-continuum** [APK18]. **atoms** [FGO14, Füh16]. **ATPH** [BCHS22]. **attractors** [CTZ02]. **augmentation** [CWX06]. **Augmented** [ZLH+24, DTZ24, WLW16, XWL13]. **Author** [Ano00a, Ano01a, Ano02a, Ano02b, Ano03a, Ano03b, Ano04a, Ano04b]. **auto** [GLM23]. **auto-** [GLM23]. **autocorrelation** [BD10, Han24b, Plo95]. **autoencoders** [FFMZ24, HKW25]. **Automated** [Nes16]. **Automatic** [Hag98, GLM23]. **automorphic** [Kni24]. **autonomous** [MO16]. **avalanche** [IL16]. **average** [ALRÁY22, ABD08, Atr12, Li03, LD07, RJ00]. **Averaging** [SBEH24, MSZ06]. **AWGM** [AU20]. **axi** [Nit22]. **axi-symmetric** [Nit22]. **axial** [Jia11]. **axis** [CCH+08]. **axisymmetric** [Ara20, BBF+24, BH02, FKS05, KNV01, LD22].

B [AMK19, AP25, CHRX06, CM12, FGS16, Flo94, GS25a, JKLY13, KK99, LM06, MXZ08, MH17, NSS04, Plo95, Spe25, Str95, VMR26, Wal95]. **B-spline** [CHRX06, FGS16, Flo94, GS25a, KK99, MXZ08, MH17, Wal95]. **B-splines** [CM12, JKLY13, LM06, NSS04, Plo95, Spe25, Str95]. **B4** [XZ25]. **background** [ACM+22]. **backpropagation** [KKP24]. **backtracking** [HD24]. **backward** [AK15, BCZ23, FYZ25, HT24, HT11, KLY26, NH26, WlL26a, WLW23, ZL20]. **backward-Euler** [AK15]. **balance** [AL21]. **Balanced** [BDYY20, BG24, GPAF18, Kür18, CT17b, PWL20, RDEG24, Tha19, TTC21]. **balancing** [GKS19]. **Ball** [MX24, Li08b, Xu04b, DP06]. **balls** [DQS20, Noa96]. **Banach** [CS03, DST04, Tem01, Tem07]. **band** [MNW04]. **band-dominant** [MNW04]. **banded** [AH96, SLC26]. **bandlimited** [FPR+12, GP14, Lem09, ZS24a]. **bank** [CMX07]. **banks** [EGL13, Jia00, Jia09b].

Barycentric [War96, WSHD07, FHK06, GRB12, GGW24]. **basal** [IL16]. **baseballs** [ALDHHZ+19]. **based** [AS02, AV15, AB97, An20b, ABD08, AK25, AW24, BN21, BCM99, Bei23, Ben97, BH19, BKR25, BS97b, BS97a, BS00, CZS16, CFZ21, CG26, CJKK18, CSZ26, DL98, DS10, DGMES13, DAP13, DLK12, DHWZ18, DQS20, Dũn09, FÁG19, FM14, FKT20, GZW18, GGW24, GWC24, GS13, HWS26, HL05, Han05, HH15, HBH24, HG25, ILHH22, KKL+22, Khl18, KA97, LHH23, LBI25, Mac94, MSZ06, MW01, MC10, MN24, Nai12, Nes16, NBL11, NKL+19, NP24, PM19, PRS24, PP23, SMK22, SS16, SS15, SSH25, TQ17, TSZ98, VK96, WCL24, Wat96, XZ01, ZMQ23, Zha01, ZLPX23, ZH25, ZS21]. **Bases** [LW03, LP04, Maz04, CWW24, CMR22, DS00, DP06, GJS14, GLT93, HHS04, Hua06, JL06, Li09, LWY06, MPR22, MS00, Pau19, QWXZ10, Sab04, TSY10, TYY11]. **basic** [BZA24a, BZA24b]. **Basis** [HORU19, ASU17, AZW15, ANGV19, AM14, AS05, BCM99, BGH15, BV24, BFMNP24, BDM20, Cai02, CP93, CEL15, CL16, DSW05, DP13, Fas99a, Fas99b, FF05, FS98, FW15, HK21, Hub12, HJ25, IUV17, Jüt98, Le 05, LST11, LW14, LM14, LLY06, LL99, LR07, Li05a, Li10a, Li10b, Lic22, LK05, Low05, Mai05, MRH15, MMNM23, PPH+21, PDB24, RS99, Rip99, RBGS18, Sch95, SL15, SS08, SRFH12, WH07, WK20, Wie15, Yan19]. **Bayesian** [AHPP24, SZJ21]. **BDF** [LZ20b, LYF+21, LHH23]. **BDF2** [DLM26, WMW21]. **be** [Kle21, WS01]. **beam** [WlL26a]. **Beamlets** [She09]. **Bedrosian** [TSY10]. **behavior** [LL07b, RL07]. **behaviors** [YX24b]. **behaviour** [Mur08, Smo07, WW19]. **Bell** [Pit16]. **Bell-shaped** [Pit16]. **below** [YLBL12]. **Beltrami** [KN14, KNQ16, O'N18a, PTC12]. **BEM** [ADG17, CP15, EEK21, HS03, MS98, NT23, Tau19]. **Bending** [Alb15]. **Bernoulli** [AG25]. **Bernstein** [Sab04, ACM20, CMP07a, CP93, CCLM21, Jüt98, LKW17, Sor18, WSM13, WZ20b]. **Bernstein-type** [Sab04]. **Berzolari** [CG15]. **Bessel** [Bre19, FC25, KXL24, LYY13, Lóp18, Mac94]. **Best** [BDKY02, Rau05, CC24, Li94, LX26a, Tem98]. **better** [DM23]. **between** [ATS19, BM00, BWX97, BCE+09, FK10, FM25, HR17, PZ16, She13]. **Beyond** [GN08, Buh06, Maz01]. **Bézier** [CC94, DP13, Flo94, LKW17, Sor18]. **Bezout** [GRV22]. **Bezout-like** [GRV22]. **bi** [JS99, LN19, TMH21, dCFCF20]. **bi-degree** [TMH21]. **bi-Laplacian** [LN19]. **bi-objective** [dCFCF20]. **BiCG** [Cul96]. **bicubic** [KP04]. **bifurcation** [PPH+21]. **bifurcations** [CGS93, ER99]. **biharmonic** [CL07, CLL08, FKS05, HSY16, Jeo98, JM03, Li10a, LLY26, RNT26, WXWL19]. **bilateral** [CW09, ILHH22]. **bilaterally** [KPY09]. **bilayers** [Alb15]. **bilevel** [MHR21]. **bilinear** [BCS19, BGW21, BG24, BGW24, BA15, DHGA23, KV21, Rei93, RGB18]. **binary** [GZW18, Khl18, LLY06, Lev99, SJJY21, XPY26]. **binder** [SEE96]. **Binomial** [BMSZ01, And20]. **binomial-Kumaraswamy** [And20]. **binormal** [KKV15]. **biological** [Świ19]. **Biorthogonal** [Jia11, CHR00, CL02, Kei95, KKL03, KKLY10, PST08]. **Bisparse** [FRW25]. **bit** [GKKS23]. **bits** [MNW04]. **Bivariate** [BDN26, MNW96, Rem12, She08, CG04, CGR13, DL98, DS00, DZ04, Flo96b, LS98, LKW17, MH17, NZ04, Rei24]. **Black** [PGB15]. **blended** [LHH23]. **blind** [Fli18, FRW25, HR13]. **block** [AB97, Bai99, sCLC13, CSWP99, DF26, HH16, HHX18a, HHX18b, LW26, LZ26, MC23, MT26, NBL11, TY18, TZL16, YL24b, dCB07]. **block-factorized** [NBL11]. **block-randomized** [YL24b]. **blossoming** [Maz98]. **Blossoms** [Maz04, Maz99, Maz07].

body [GM14, HKRS14]. **Boltzmann** [HXC10]. **Boor** [JS95, Maz07]. **Born** [CdGDN20]. **both** [ZYY16, ZD17]. **bottom** [TTC21]. **bound** [Bar03, GWC24, RDEG24, ZW22]. **boundaries** [BK96, CCLM21, She13, Sou22, Tau19]. **Boundary** [dLL19, GJMY19, IMS99, MS99, AG25, ACK19a, ACK19b, ABI15, AC25, AR20, BBB22, BSK19, BBdD21, Boc04, BLV20, BR22, BCO24, CDS02, CWLH95, CP99, CWX12, CT17a, CHS17, CG17, Del17, DKK22, DS24, DQS20, DTZ24, EX20, FLM96, FK98, FZ12, FM18, FY13, FYZ25, FH18, GMM09, GM14, Gil17, GRdSA19, yGmW98, GH06, GPG15, HWS26, HH15, HJH12, HLUT26, HR02, HZHL12, JSSE97, Jeo98, JM03, JS05, Jia09a, KP95, Kno09, KS17, KP18, Kun95, LD22, Lee03, LR19, LC21, LLR24, LS19, LQW18, MH22, MR96, MB96, Ock96, QC12, RZ98, SH23, SW98, TZ07, TSZ98, TGA96, VC00, Wan22, WLB22, ZCL20, ZGV22, ZS24b]. **boundary-layer** [ZCL20]. **boundary-partition-based** [DQS20]. **bounded** [AS21, BBR02, CL16, CH22b, GM17, GKM+20, LWW21, PST95, San15, TDG16]. **boundedly** [CET21]. **Bounds** [AS08, Dam07, Dav23, HSZ24, Li25, LB93, Mai05, MRS22, NG99, NSW16, RWB+24, SWH20, TMH21, XHC15, ZXC12]. **Boussinesq** [Lee03]. **box** [BS05, CGR13, ZW19, Gér19]. **box-spline** [BS05]. **Bracket** [Chi03]. **branch** [IB17]. **branched** [KC16]. **branches** [MNN25]. **breaking** [GH08]. **bridging** [ESTW19]. **Brinkman** [AMS22]. **Brunel** [New96]. **Buhmann** [HJ25]. **bulk** [EX20]. **bulk-surface** [EX20]. **Burgers** [KP18, WZzS21, WC25]. **Burridge** [XKY15]. **Butzer** [BS23]. **BVMs** [AB97]. **BVODEs** [Mui99]. **bypass** [HF19, KRP19]. **cache** [CM99]. **cache-** [CM99]. **Cahn** [LGC+20, CZ20, GO26, GWC24, HS20, JlLZ20, KL22, LYF+21, LZL23, LZ25, LZlL26, QZX23, RWT13, SXWG22, WaZL24, ZY20, ZZL+24, ZL21]. **Calculation** [VC00, WWX18]. **calculations** [CLR19, SL15, Tad19]. **calculus** [Lic22, LLD24, SBEH24, TH24]. **Calibration** [Tyg23]. **camera** [FGS13]. **can** [BCO24, Kle21, WS01]. **canonical** [ACDR24, AS24, CL22]. **cap** [HW12]. **capabilities** [CLLS06, CLM96b]. **capacitance** [TW98]. **capillary** [BSSM22]. **Caputo** [Gu20]. **cardiac** [GLS15]. **Cardinal** [HL16a, HL18, BS05, Buh06, Led15, RS99]. **cardioid** [ALDHHZ+19]. **cardioid-parametric** [ALDHHZ+19]. **Carleman** [CHS21]. **Carlo** [CDP25, ESTW19, KR19, PM19, Zhe23]. **Carlo-bridging** [ESTW19]. **carpet** [LSY22]. **Cartesian** [CH22b]. **Cas** [GGAVGG+19]. **cascade** [CX04, Li04]. **case** [AS24, CM03, Han05, KS20, RH12, Rei24]. **Cauchy** [Bra01, BR07, CKP13, Cum96, KXL24, WZ10, ZW12]. **Cauchy-type** [Cum96]. **Causality** [GGL07]. **cavities** [QC12, VW02]. **Cayley** [DLP98, ZS21]. **Cayley-transform-based** [ZS21]. **CDG** [YZ24]. **cell** [ALRÁY22, ABD08, BEPS96, Dad17, JS05, KHM16, LR19, ZQ13, ZG16]. **cell-average** [ALRÁY22, ABD08]. **cell-centered** [KHM16]. **center** [EHV17]. **centered** [BEPS96, KHM16]. **central** [TQ17]. **centroids** [MFB+11]. **ceramics** [SEE96]. **certain** [Sto96]. **certified** [AHK+19, ANGV19, BV24, HK21, Pra23, SFDE15, ZMQ23]. **CG** [ZT14]. **CG-like** [ZT14]. **chain** [PM19, PR15]. **chains** [DMMS11, RBGS18, ZXC12]. **challenges** [Onc14]. **channel** [Jia00, YTL+20]. **characteristic** [CCE+12, HCH20, LX26a, LZCW21]. **Characterization**

[CHS20, LLS95, Li04, SZ09, FGG+17, FH20, Fus08a, Fus08b, GP95, LWY06, Mon09]. **Characterizations** [LY07, Far10]. **charged** [LW23]. **charged-particle** [LW23]. **Chebyshev** [BR13, CMZ26, Cop98, Fou23, LLHYN24, MV99, Maz99, Maz01, MC23, Nee96, SC08, TZL16, WK93, Zhu15]. **chemorepulsion** [GGRBRG21]. **chemotaxis** [CEHK18, PLRGVR22]. **chiral** [HPP+19, ZGGW12]. **choice** [AW24, GPT17, JJLR14, Kno09, LLY12, RH12]. **Christoffel** [LP19]. **Ciarlet** [CL07]. **circle** [CJ07, GVSLN96, GKKS23]. **circle-preserving** [CJ07]. **circuit** [SS15]. **circular** [HO17, MKS02, PW08]. **circulation** [SI15]. **clamped** [LQW18, MM20]. **class** [ADL11, ABY13, Atr12, Bai99, BHT11, BDM20, BMLC26, CJKK18, DG13, Fur26, GMS12, GKS21, Hak00, HR17, HCYY20, HX21, Hub12, IRT23, LLS94, LSXZ15, LW26, MSS02, MN00, ZW20]. **classes** [CKP13, Dai16, KL07, Pei05, Peñ11]. **classical** [Zoz15a]. **Classification** [CG04, SQ26, XP10]. **classifiers** [ZJ06]. **Clenshaw** [XHC15]. **Clifford** [CLM02]. **cloak** [LSY22]. **Closed** [Hub12, HJ25, Dav23, GQL24, LGQ24, LLC26, Noa96]. **closed-loop** [GQL24, LGQ24]. **closest** [GS19a]. **closure** [FC25]. **closures** [SM18]. **Clothoid** [RW21]. **Clough** [LL98]. **Clustering** [CS18]. **CMOS** [Tal19]. **CMRH** [DF26]. **CNNs** [YZ23]. **co** [PR15]. **coarse** [CH22a, KS18, KXZ04]. **coarse-grid** [KS18]. **coated** [CH15]. **cocoercive** [nCV13]. **codes** [CHMR97, Hal95, Kir98, NKL+19]. **coefficient** [FL23, GS13, QZX23, SZJ21, Spe23, SJJL15]. **coefficient-based** [GS13]. **coefficients** [AS21, BKP20, CJN18, ÇY23, Ehr00, EGL13, Gia20, Kum23, LLD24, LS18, Pet02, Wan23a, Wan23b, ZB12, Zho25, dB00]. **Coercivity** [HW18]. **cohomology** [KMSV24, PR15]. **Cokriging** [BZ18]. **Cole** [HW19a]. **colleague** [ZR24]. **collections** [SB22]. **Collocation** [AHHR16, LS19, AB23, BJX09, CCK20, CCNT21, CDM+24, Cum96, FS98, GK19, Gu17, Gu19, Gu20, yGqW09, GW14, GW21, Han05, Hau97, HS13, HR02, HS16, LLS09, LK05, Liu99, LX26b, LBCZ18, MWZZ23, MH22, MR96, Nai12, QX21, Ram95, RWT13, Sch09, XH13, YZLL24, ZP24, Zam26]. **colonoscopy** [MU14]. **colorization** [LN19, YKZ19]. **combination** [FPT06, PW24, TSV21]. **combinations** [DGMES13, MPS96, MPS97]. **combinatorial** [TMH21]. **Combined** [DSS09, KK20, BBB+16, CLCH19, HO15, HCYY20, HY18]. **combustion** [XZZ26]. **coming** [BDM20]. **commensurate** [Ryd19]. **common** [Len94]. **Commutation** [KMMI19]. **commuting** [GLT93]. **compact** [Gna07, HWZ22, PS23, Str13, WZzS21, XY20, ZW22]. **Compactly** [CHSS03, JJK13, JS99, Wu95, CL16, Hub12, HJ25, Lai06, LLS95, Len96, Sch26, Wen95]. **comparative** [BSK19, DM23, Zam26]. **comparing** [Sch15]. **Comparison** [HKR21, BBB+16, Zoz15a]. **compass** [GMB97]. **compatible** [LZlL26, TDG16]. **compensating** [AS24]. **compensation** [SLC26]. **competition** [Ble07, DLK12]. **complements** [Dai16, Peñ11]. **complete** [CtTB21]. **completely** [Dou94, Xu14]. **completeness** [GLS25]. **completion** [CMX07, DDLL23, GS19a, GS20, MHR21, WLW16]. **completions** [MRS14, MRS18]. **Complex** [NW22, BCC22, BFH+18, DOZ94, FMR00, FH05, FKT20, Han10, IL16, LW26, MKS02, PC17, Pau19, SM99, ZHzSR21, ZR24]. **Complex-scaled** [NW22]. **complexes** [PP24]. **Complexity** [NUWZ17, Tom96, Cho95, GKS19, Pei05]. **complicated** [Gia20]. **component** [Gat21, JLW20, LKT18, WLL26b].

components [RST+14]. **Composite** [yGjW10, CV23, Gia20, HXC10, Pla12]. **comprehensive** [FGG+17]. **compressible** [An20b, BBB+16, HCH20, ZCL20]. **compressing** [MST05]. **compression** [ALS24, DPS93, DKLT93, DES21, HHKS24, LW14]. **compressive** [FBDH19, SL12]. **compromise** [BCE+09]. **Comput** [Fus08a, Hem96]. **computable** [CZ19]. **Computation** [Ano02c, BJMR24, PR15, ZA10, AD24, And20, ANSZ17, BPJ02, BH02, BK24, BPK96, CX04, ER99, GH99, KNV23, LKT18, LD07, MFB+11, Miy19, NP18, NT23, PPH+21, dCFCF20]. **Computational** [Ano01b, Ano03c, Ano04d, Ano04e, Ano04f, Ano05a, Ano05b, Ano16, Pei05, Sau95, Yoo01, dB00, BZA24a, BZA24b, BOP+15, CGDHRÁ+19, CC24, FÁG19, GRdSA19, KL24, Lee03, Sch15, NW04]. **Computationally** [TL18]. **computations** [ASU17, GGAVGG+19, GDMS21, KP98, MPR22]. **computers** [EJ97, vdH93]. **Computing** [AG25, BEG22, CKP13, GH08, GS19a, GKS21, HMS19, HBM03, Jon17, Kni24, KL15, MX24, AB23, AR20, BI11, GZ25, HCF+21, Kir98, LMV11, MXY13, SC08, ZW25, ZTHW22]. **concentrated** [GG06, PS23, RST+14]. **Concentration** [GZ13]. **concentrator** [HL20]. **concepts** [ESTW19, WLPV15]. **condensation** [HH19a]. **condensed** [ASS10]. **condition** [Awa13, CZ19, DKK22, DS24, Flo94, LX26a, QC12, Sch95, SS96, Wan22, WL05, ZYY16]. **Conditional** [Xia13]. **conditionally** [FM21]. **conditioned** [ČF11, LWWZ22]. **Conditioning** [ZP24, Ant18, LG13]. **conditions** [ACK19a, ACK19b, BBB22, BR22, BCO24, CDP09, Del17, DTZ24, EX20, EHV17, FLM96, FM18, FS07, Füh16, GW17, Gil17, HXC10, JM03, Jia09a, KK99, Kun95, LLR24, MB96, SLT21, TGA96, ZS24b, ZhXpZ16]. **conducting** [ATS19]. **conduction** [BDMR10, CN96, HT11]. **conduit** [HYHH21]. **Cone** [Leo02]. **confidence** [KR19]. **configurations** [BEG17, CG04, CGG+20]. **confinement** [LQW18]. **confluent** [DGS18, NP18]. **conformal** [CWLH95, CL18, HL16b, LLLH23, MKS02, NRR+22, TB16]. **Conforming** [MN16, ALV26, DAN25, DMS22, YZB20, ZMQ23, ZC14]. **conic** [Flo96a]. **conical** [EHS02, PW08]. **conjecture** [Kle21]. **conjugate** [DDLL23, ZS21]. **conjunction** [DSS09]. **connected** [BB25, CWLH95, CL18, HL16b, RCJ+23, San15, TB16]. **connection** [BGM93, BM00, NSW07, PP24]. **connectivity** [NS21, PŠWX03]. **conservation** [CFC23, DHH25, KK05, MV01, Yan19, ZQ13]. **conservative** [FQH25, HWZ22, KKK24, LR19, LZ20a, LZ22, SGK26, WZJ18, XY20, ZW22, ZRW26]. **conserving** [ABI15, MWZZ23]. **consistency** [CX06, HFH+07, MNPR06]. **consistent** [KKK24, KHM16, MSW+22, Sou22]. **constant** [KPY09, LY08, Spe23, ZB12]. **constant-coefficient** [Spe23]. **constitutive** [JS21]. **Constrained** [BGT26, BHT11, IUV17, KO26, KPY09, SW06, Yao19, KKL+22]. **constraint** [KXZ04, LC18, MHR21]. **constraints** [AHK+19, GHKL18, WOBL17, XLL24, ZW19, ZLPX23]. **Constructing** [CGM01, FMPS13, GW17, GU02, Lem09, GM14, GIKV21, WM21]. **Construction** [AF96, BD10, ČF11, CHR00, CaL06, DHO16, FOW14, GS10, JMO00, Lai06, OBS15, Rei93, SX07, WOBL17, ABC14, BLP19, BCZ05, CCH+11, CP14, CMX07, CL02, FHK06, HSZ24, Hua06, KKLY10, LH13, MSS02, PST95, RBGS18, SW98, Str13, ZW23a]. **constructions** [CHL17, Lic22]. **constructive** [CGR13, DG16]. **contact** [HKRS14]. **context** [HSV09, Wie15]. **continuation** [Awa15, BSK19, Mur08,

She13, Tim21, ZS24a]. **continuity** [LM04]. **Continuous** [CS94, DM93, LW23, LWX19, PT21, ALADH+19, ALZ02, BP93, DY10, DAP13, GHV25, GGRBRG21, Han24b, JL97, Len96, LA22, Mui99, WY17, WY20, ZT14]. **Continuous-stage** [LW23]. **continuously** [FMH26]. **continuum** [APK18]. **contraction** [PR15, TQ24]. **contrast** [CBLZ26]. **Control** [GS22, KLNS95, AM24, AV15, AHS20, APPP24, AMPT22, BGW21, BG24, CBK01, Cas07, ÇY23, CCE+12, DJZ25, EH24, FS25, GK24, GN13, HLC26, HR01, KP18, LSY24, Lee03, LC18, LC21, LZ21, LY01, MRS03, Per22, Wil98, Yan03, ZW23b, ZW23c, dCFCF20, dLdDSM07]. **controllability** [CHS21]. **controlled** [PSW24]. **controller** [HKW25]. **controllers** [CS18]. **controls** [MS16]. **convection** [ANN22, ÇY23, CCE+12, DFOS23, HO17, KY01, KXZ04, LC20, LRS12, Mat09, MG19, OS09, PP97]. **convection-dominated** [CCE+12, KY01]. **converge** [CSW14, Gon93]. **Convergence** [AK15, BQRB13, BBdD21, Bru23, CCSS09, CET21, FS98, Gom95, HX02, HW19b, JL19, KB15, LC18, Li08a, LG13, MH22, MS19, MNC16, Noe95, PK94, Ryn00, SM24, Sou22, TY18, WYW11, WlL26a, WZ10, XLL24, Yao16, Yin07, ACM20, AAFV19, Ara20, Bad19, BC19, CLC16, CDP09, Che06, CS19, CV23, CG26, CZ19, CKW10, Don19, FJ99, FP99, FW25, FL00, GH06, GS19b, HL18, HS20, KKP19, Led15, LR07, Li04, Li05b, Li08b, LZ20b, LY21, LZ25, LSZ26, PS98, Tem02, Wan19, Wan23a, Wan23b, WC25, WZ20b, Yao19, YXM23, ZJZ21, ZQS22]. **Convergent** [HPP+19, Lóp18, GQL24, KXZ04, LLS09, LWZ19, WMB13, ZYB18]. **conversion** [LPY10]. **Convex** [FPT06, TSV21, sCLC13, CZS16, CCH+15, FBDH19, FHK06, FK10, HH16, HHX18a, HHX18b, Kva14, LD07, LY01, MR10, MRS03, Par22, Pet96, RGB13, SYCJ18, TY18, War96, WSHD07, ZLPX23, Zho26]. **Convexity** [CC94, KK99, SS14, Car95, Flo94, LPSSP00]. **convolution** [Cop98, FC25, HJJV97, Li03, YZ13]. **convolution-type** [YZ13]. **convolutional** [MZ22]. **Convolutions** [CK03b]. **Conway** [AVGGEG+19]. **cooperativity** [CGDHRÁ+19]. **Coorbit** [DST04]. **coordinate** [YWC12, Zwi94]. **coordinates** [FHK06, KB15, RGB13, War96, WSHD07]. **corner** [Noa98, Rei24, Sab04]. **corner-cutting** [Noa98]. **Corrected** [Nit22, IRT23, WM21]. **Correction** [ACK19a, BZA24a, BD21a, HHX18a, LMRV23a, Wan23a, ZW23c, CS19, HV19a, KCW17, LGQ24, WaZL24, WM21, XH13, XYZ21, ZS24b]. **corrections** [FXZ96]. **corrector** [CSWP99, ZD14]. **correlation** [GLM23]. **Corrigendum** [Hem96]. **corrupted** [XWL13]. **Coulomb** [HL08]. **Counterexamples** [LL07a]. **Counting** [TD21, Kot08]. **CountSketch** [MB20]. **coupled** [AMPT22, DFOS23, GLO10, HFH+07, JRS15, LZ20a, LGC+20, MRH15, MN24, MS98, OS09, SDZ26, XY20, XPY26, ZMQ23]. **Coupling** [HF19, SH23, ADG17, DGMM16, GMM09]. **couplings** [EEK21]. **Courant** [CBK01]. **Covariance** [HHKS24]. **covariate** [GS25b]. **CP** [YL24b]. **Crank** [CLCH19, HCYY20, How96, New96, Ock96, SXWG22, aZWL23]. **creates** [Ito96]. **criss** [SXYY06]. **criss-cross** [SXYY06]. **criteria** [ZV08]. **criterion** [FBCR13, Tem02]. **Critical** [Sto96]. **Cross** [BH19, ALS24, GLM23, HL96, Ryd19, SXYY06]. **cross-correlation** [GLM23]. **Cross-Gramian-based** [BH19]. **cross-validation** [HL96]. **Crouch** [JMO00]. **Crouzeix** [HMM21, YZB20, ZHY19]. **cryptographic** [Ren09]. **crystal** [HY14, LMYL19, LS20, RH15, RMCCG+19, XPY26, Zhu15, aZWL23]. **crystalline**

[GZ25]. **crystals** [KK02, SJJY21]. **CSOR** [HJJV97]. **cubature** [DMN25, DG13, GS10, IMS99, Pet00, Xu98, Xu00]. **cubic** [ANSZ17, BCHS22, CG06, CHS20, ČF11, Flo96a, FQH25, JL06, NSZ04, PWL20, Pet96, Rem12]. **cubic-like** [BCHS22]. **cubical** [Loh23, PR15]. **cubics** [Noa06, PFMS05]. **cuboid** [HSY16]. **Cumulative** [LBI25]. **CUR** [DM23, VM17]. **curl** [BKK17, GZZ25]. **Current** [MM99, AGN23, AMPT22, BMSR$^+$16, Cai02, KMSV24]. **Curtis** [XHC15]. **Curvature** [RS01, CC94, HW19b, LK26]. **Curve** [IJH26, Pot95, Bei23, CM03, Khl18, MU14, Pet96, ZS24a]. **curve-based** [Bei23]. **curved** [KB15, LR25, SH23]. **Curves** [CL22, MP04, ABMM19, BX94, BWX97, BGN17, BC94, CHS20, CLM02, CGM01, Der04, FS94, FaKS02, Far10, FGS16, FGG$^+$17, FM18, Flo96b, HBMY14, JKK$^+$12, KLNS95, KKV15, Mon09, Pot95, PS98, RSA14, RM19, Sab04, ZN18]. **curvilinear** [LQ14]. **cut** [SLK20]. **cuts** [DT12]. **cutting** [Noa98, Sab04]. **Cycloidal** [MP04]. **cylinder** [MKS02]. **cylindrical** [ALADH$^+$19, BGMS07, FS25, YDF97].

D [Hem96, HS13, Lee03, CK11, GT14, Han05, NV10, TZ07, Boc04, DL98, FF05, GHV25, GM14, GL13, Hem95, MU14, VW02, vdHS00, JRS15]. **D-problems** [Hem96, Hem95]. **DAE** [GZA20]. **damped** [ADG17, JSW20]. **Damping** [TBG18, PDB24, SRC25, ZH25]. **Darcy** [WaZL24, CHM18, MRH15, MN24, SDZ26]. **Data** [BB25, CP04, HO15, LW14, WBGG22, AEI25, ALRÁY22, AGU25, AW26, BCV23, BSK19, Bes03, BE00, CCSS09, CP15, CGW13, CMSS23, DZ04, DSW05, DSS09, ECS18, FHN94, FM04, FL24, GAN20, GSS22, GGW24, Grä12, GL13, Han24b, HT24, HQR23, KKP19, KMO$^+$14, KESR22, Kun09, LW04, LP19, LNW02, LP14, MS22, MST05, MJM23, MNW99, MHR21, NSW98, NG99, Pot04, PJ20, RF19, RS99, WL05, WSM13, Yoo01, ZMQ23]. **Data-driven** [BB25, HO15, WBGG22, AW26, GGW24, HQR23, PJ20]. **data-independent** [DSW05]. **datasets** [CC24]. **date** [ALADH$^+$19]. **Daubechies** [DKB99, EGL13]. **Davidson** [MC23, TZL16]. **DCA** [HWZ23]. **DDFV** [DSW20]. **deblurring** [CZS16, KPY09]. **decay** [NV10, RCJ$^+$23, SRC25]. **decaying** [LP10]. **December** [Ano16]. **decision** [AGGAV$^+$19]. **decoder** [HD20]. **Decomposition** [BRR18, BHM18, BFFM24, CM99, CWY25, DT12, ES23, FKS05, FMH26, GLM23, GL13, Hag98, HKRS14, HFH$^+$07, HQR23, HS03, HYHH21, Hu07, KKK24, KESR22, Las16, LH13, LKT18, LHY08, MB20, MMNM23, Par20, PS05, PSNP11, SI15, Sto17, SDZ26, WCL24, WW24, YL24b]. **Decompositions** [DS13, AL13, CWX24, CCN$^+$16, CW19, CHRX06, DM23, VM17]. **deconvolution** [Fli18, FRW25, HR13, WZM21]. **Decoupled** [QL25, CHM18, DSW20, XPY26]. **decoupling** [AMU24]. **Deep** [FMH26, HKW25, YZ23, BFFM24, BKR25, FFMZ24, GHJZ23, Kni24, MZ22]. **defect** [ZS24b]. **defect-correction** [ZS24b]. **Deficits** [BCHL03]. **defined** [FMR00]. **definite** [Bai99, FM21, GS10, LS05, Pin04, SM99, WMY13, WMB13, Wen95, Wu95]. **definiteness** [Luo99]. **definition** [DQS20]. **deflated** [PPH$^+$21]. **deformation** [HSSS18]. **degenerate** [AGN23, Gna07, LB93, Rei24]. **degeneration** [Bes03]. **Degree** [PR99, ABC14, BM00, BR13, DOZ94, FL00, Mar95, Mon09, PK94, TMH21, Wen95]. **degree-raising** [FL00]. **degrees** [Loh23, ZRR23]. **DEIM** [ZMQ23]. **DEIM-based** [ZMQ23]. **delay** [BP93, BPW95, ER99, GH08, WY17, Wan19, ZZL$^+$24]. **delay-free** [ZZL$^+$24]. **delay-integro-differential** [WY17]. **delays** [Dad17, XH13]. **delta**

[CDS02, DRS08, LPY10, Wan08, GKKS23]. **demagnetization** [AC25]. **demand** [GS22]. **demixing** [Fli18]. **Democracy** [GHdN12]. **denoising** [BCE+09, CSZ26, JZ10, MSXZ13, Zhu19]. **densely** [She09]. **densities** [DMT03, WBY24]. **density** [An20b, CJN18, JJK13, LLC26, WZM21]. **density-equalizing** [LLC26]. **depend** [MGSS22]. **dependence** [KL22]. **dependent** [AKS23, BFMNP24, BKM+21, DFOS23, FaKT22, FL23, GS18, GQL24, HQR23, LZZ09, SW10, TBG18, TB16, TGA96, dFGAJN18]. **derangements** [IS13]. **Derivative** [FXZ96, AP25, FF05, FW15, KS17, MB96, QYY26]. **derivatives** [BRSV15, BS23, LWW21, XL10]. **derive** [ZRR23]. **descent** [AHPP24, HLC26, HG25]. **described** [FKT+19]. **describing** [Ara20]. **descriptor** [BW20]. **Design** [Yem22, HKW25, Pot95]. **designing** [FGS13]. **designs** [BMRS20, HL08, Hes09]. **desired** [Lem09]. **Detecting** [BLP02, DGMES13]. **detection** [CGS93, CGW13, ER99, Lee21, MP00, SPS21]. **determinants** [Maz98]. **Determination** [LK20, FL23]. **determine** [WLL26b]. **determined** [BGM93]. **Determining** [SF14, LAG+24]. **deterministic** [BZI19, ÇY23, GIKV21, LZ26, WSM13]. **detonation** [ZG16]. **Developing** [HLL25, LCC19]. **Development** [CDP03, LSY22]. **deviation** [Tyg23]. **devices** [BMRS20]. **DG** [GM24]. **Diagonal** [Peñ11, Dai16, FMPS13, Kos15]. **diagonalized** [LWL17]. **Diagonally** [vdHS00, EJ97]. **diagram** [BCO24, DQS20]. **diagrams** [CL22, PPH+21]. **Dictionary** [HBH24, NP24, BN21, Mai06]. **Dictionary-based** [HBH24, NP24, BN21]. **Difference** [EX20, BEPS96, Che06, CLL08, CEHK18, Dav23, ES23, FZLZ21, GK19, HWZ22, JRS15, KY01, LCC19, LZ20a, MB96, NV10, PL05, SSH25, SYCJ18, TZ07, WZJ18, XY20, Xu14, XZZ26, YXM23, ZHzSR21, ZW22, ZLPX23, ZH25, ZD16]. **difference-of-convex** [ZLPX23]. **differencing** [DHH25]. **different** [FKT+19, LQ14, WBY24]. **Differentiability** [Sau06]. **Differential** [KK02, AD24, ANGV19, BP93, BPW95, BCZ23, ByLl01, BV24, BFCIV22, CJX17, CWX06, CB25, CN96, DLP98, EOR18, ESTW19, ER99, FZ12, Fas99b, FY13, FMH26, GHJZ23, Gu20, GH08, yGS08, yGqW09, GW21, Gut21, Hau97, HK21, HBM03, HS08, JS21, JLZ08, KA97, LMV11, Liu99, LX26b, Loh23, Mai20, MS18, MMNM23, PM17, PO24, QX21, SGK26, SW96, She13, VR26, lWyG06, WY17, WZ19, Wan19, Wat96, WK20, ZRR23, ZL24, ZV08, ZD14, vdHv97]. **differential-algebraic** [LMV11]. **differentiation** [KLY26, KF19, WlL26a, WH07, XLW26, XL10]. **Diffraction** [BBR02, EHS02, Wan22]. **diffusion** [ANN22, BlH23, BCE+09, CC22, CK11, CLM96a, CLZW13, CtTB21, ÇY23, CHS17, CCE+12, DFOS23, DKMT20, DSW20, FYZ25, FZLZ21, GLO10, HO17, HW18, JLW20, KY01, KXZ04, Kim06, KHM16, KC16, Kun01, LC20, LD16, LYZ26, LRS12, LZCW21, MR15, Mat09, MXO13, MG19, MNC16, OS09, PR26, PP97, QZX23, SM24, SZJ21, Sou22, SLC26, TDG16, WLL26b, YZLL24, YXM23, ZAL26, ZD17, ZJZ21, ZC14, ZCY20, ZW12, Zho26]. **diffusion-wave** [SM24, WLL26b]. **diffusive** [GQ22]. **digital** [LPY10]. **digital-to-analog** [LPY10]. **dihedral** [BJMR24]. **dilation** [Gro13, Han98, Han06]. **dilations** [CHSS03]. **Dimension** [CL12, TQ17, FFMZ24, KORS17, Mai06, PŠWX03, PO24, TD21, TMH21, ZD18]. **Dimension-by-dimension** [TQ17]. **dimensional** [AEI25, AU20, BNR00, BM00, BJMR24, BR15, CMP07b, CCK20, CC24, CGH+13, CCH+08, CLM18b, CLM18a, DLS14, DQS20,

EMU26, EH24, ESTW19, FKP26, FZLZ21, GDMS21, GZ25, GJW20, HKW25, HSY16, HCF+21, JN18, KKP19, KF03, LG13, LZ20a, LYF+21, LZ25, LZZ09, LG26, LL07b, LK20, MR15, Nov00, Onc14, PW24, QX21, SLC26, TH19, WHS18, XKY15, ZHzSR21, ZW25, ZTHW22, ZQ13, ZG16, ZLH+24]. **Dimensions** [ZWDD16, ACK19a, ACK19b, AS08, Bei23, Che02, FP99, Füh16, GL23, HW00, HH19b, JSW20, MS19, O'N18a, WZJ18, WG19, YZLL24]. **diminishing** [CGP95]. **DIMSEMs** [EJ97]. **DIMSEMs-diagonally** [EJ97]. **dipolar** [ZW25]. **Dirac** [CDS02, DRS08, yGSlX03]. **Direct** [AM14, LL99, Che02, CGHK23, DZ04, GM22, LWWZ22, MS16, SH23, TY18, XZZ26, YX24a, YM24, ZGV22]. **direction** [BS05, LLS96, LL98, SYCJ18, YF23]. **Directional** [ANZ23, CCH+15, CGRS15, GL17, MSS02, NSS04, RF19]. **directly** [TQ17]. **Dirichlet** [AK01, ACH10, BBB22, GLX23, JM03, Lee03, Li05b, LLR24, LLZ25, SM24, WL12, ZS24b]. **Dirichlet-to-Dirichlet** [LLZ25]. **Dirichlet-to-Neumann** [WL12]. **discharge** [FKT+19]. **discontinuities** [AL13, BR15]. **discontinuity** [ZW19]. **Discontinuous** [DS24, LGC+20, Yan19, Ye04, AK15, BQRB13, BDFS19, BDM20, ÇY23, CHP19, CH22a, Don20, Gia20, GK24, KF03, LC20, Lep23, LZL23, LLY26, Pet02, SXZ06, SH23, WXWL19, WaZL24, XZ25, YH25, ZZP23]. **Discrepancy** [Leo13, Pla00, RJ00]. **Discrete** [CMX02, JSSE97, dLdDSM07, AAPCC24, AGGAV+19, BF11, Ble07, Bru23, BS24, CJX17, CHS21, CKM99, Dad17, GHV25, GAN20, GLS25, HS20, KLY26, Kir98, LC13, LL13, MZ13, Mui99, Nee96, Rei93, Ryd19, SBEH24, TZ03, VNS18, WC25, XPY26, ZV08]. **discrete-time** [AGGAV+19, BF11, Ryd19]. **discretely** [LG26]. **Discretisation** [AP25, DNS21]. **discretisations** [Mat09, WW19]. **discretization** [AS05, Bra01, CR23, FW96, HBMY14, HL06, HH15, JRS15, LZ25, LX26b, MV01, NV10, Ram18, RSZ11, TZ07, ZST19, ZH25]. **discretizations** [Ang00, GH18, HL21, KM19, PGB15, XY15, XZ01, ZGV22, ZC14]. **Discretized** [HT11, CGS93, SXWG22, ZZCC24]. **discriminating** [DGMES13]. **disk** [CWLH95, CL18, DMN25]. **dispersion** [CLMR15, Sto25]. **dispersive** [dLL19, HW19a, PM17]. **displacement** [HCH20]. **dissipation** [CLMR15]. **dissipative** [AMM20, BD18]. **distance** [PZ16, RQS26]. **Distances** [BWX97]. **distancing** [DHSW19]. **distinct** [VK96]. **distributed** [BGG24, CS18, FYL08, HH16, LSY24, LKT18, LY01, ZBT+22]. **distributed-memory** [ZBT+22]. **Distribution** [LBI25, AR23, HCF+21, LK20, YZ23, ZD17, ZTHW22]. **distributions** [CDS02, CdGDN20, CDP25, IY22, Li03]. **div** [BKK17, JJLR14, dFGAJN18]. **divergence** [Sor18, Urb95, WWH21]. **divergence-free** [Urb95, WWH21]. **Divergent** [Zoz15b, Zoz15a]. **Dixon** [Chi03]. **DL** [BFFM24]. **DL-ROMs** [BFFM24]. **DNNs** [LP21]. **does** [MGSS22, Spe23]. **Domain** [DT12, AS05, BMSR+16, CWLH95, DAP13, EHV17, FKP26, GL23, GM17, Hag98, HKRS14, HFH+07, HO17, HS03, HYHH21, Hu07, KNV23, KS23, LSY22, LHY08, LR25, MMNM23, Par20, PS05, PSNP11, Rem12, Sto17, SL05, SDZ26, VW02, ZhXpZ16]. **domains** [BB24, BB25, BK96, CCNT21, CLL08, CL16, CH22b, DM19a, FS25, FKT20, Gia20, GLX23, GKM+20, GH06, yGS08, HL16b, IMS99, KB15, LG13, LHY08, NRR+22, QWS24, Str13, TDG16, WKH25, YX24a]. **dominance** [Dai16, Kos15, Peñ11]. **Dominant** [GDB24, BH19, MNW04]. **dominated** [CCE+12, GQ22, KY01, LBI25]. **dot** [LS05]. **double** [BST24, CBLZ26].

double-phase [CBLZ26]. **doubly** [BCZ23, DX20, Tor16, TB16]. **doubly-connected** [TB16]. **DOUG** [Hag98]. **Douglas** [HH16, TSV21]. **Dr** [Sil99]. **Drift** [CCDL20]. **Drift-preserving** [CCDL20]. **driven** [AW26, BB25, DX20, GGW24, HQR23, HO15, PJ20, WSL+19, WBGG22]. **driver** [ALADH+19]. **Drude** [HLL25]. **DtN** [LLL24, LL25, Wan22]. **Dual** [AS24, AHL25, BBB21, Boc04, CP03, zCpST09, CKK12, CKK16, CJKK18, Chr15, DM15, FGO14, FOW14, GRV22, HYHH21, JJK13, Jüt98, KSWX24, KPY09, LPY10, Lem09, LKW17, LYY13, LY21, LLHYN24, Par20, Tad19, nCV13]. **dual-Petrov** [KSWX24]. **dual-porosity-conduit** [HYHH21]. **Duality** [Noa06]. **duals** [CG10, CSS98]. **due** [KKP24]. **Dyadic** [DM99, CS94]. **Dynamic** [dCB07, AHS20, BHM18, EX20, HQR23, JS21]. **dynamical** [BH23, BFH+18, DHGA23, GDB24, KKK24, RGB18, Tan17, UG19, WOBL17]. **Dynamics** [Dad17, APK18, HPP+19, Kim06, LW23, PSW24, ZST19]. **Dyson** [KS23].

EARSM [HF19]. **earthquakes** [XKY15]. **ECG** [CSZ26]. **ecology** [MP18]. **eddy** [AGN23, BMSR+16, KMSV24]. **Edge** [CGW13, PGB10, SPS21, GL17, YKZ19]. **edge-weighted** [YKZ19]. **edges** [Var96]. **Editor** [Ano95, MM99]. **Editorial** [GS12, MM93]. **editors** [Ano05a, Ano05b, Ano03c, Ano04d, Ano04e, Ano04f]. **effect** [ALDHHZ+19, Spe23]. **effective** [HKR04, SWH20]. **efficiency** [DL04]. **Efficient** [AD24, CWY25, CH22b, FZLZ21, HHSM24, JGW15, LP21, LMYL19, MV01, PS07, PPH+21, RBGS18, SMK22, VM17, YKZ19, ZMQ23, AEI25, AZW15, CM99, CCE+12, DGMES13, GS20, HFH15, IP15, LGQ24, LD07, NT23, QZX23, SW98, TL18, XPY26, ZPY25]. **efficiently** [LBCZ18]. **eigen** [Yao19]. **eigenfunctions** [SS16]. **eigenpairs** [GKS21]. **eigenproblem** [CR99]. **eigenproblems** [JM00]. **Eigenvalue** [KSWX24, YLBL12, ALV26, Ara20, BPK96, CL07, CWW24, CMZ26, EJ97, Gna07, HNT22, HLC26, HR01, HL21, Kos15, LLZ10, fLLfDX21, MSZ06, Mar94, MC23, MTH21, RSZ11, TZL16, TBD94, WXWL19, WBY24, XY15, XYZ21, YXX22]. **Eigenvalues** [CGS93, AR20, BJMR24, Jon17, MX24, VR26, YZB20]. **eigenvector** [BPK96]. **eigenvector/eigenvalue** [BPK96]. **eighth** [TBD94]. **eighth-** [TBD94]. **EIM** [RH15]. **elastance** [BBT25]. **Elastic** [BC94, Ara20, Ble07, BGN17, CGM18, FE15, LD22, LLL24, LL25, SLK20, WBY24]. **elasticity** [AAQ15, Awa13, BCV23, BQRB13, BBB22, DL23, HZZZ24, LLS03, Lee16, LLR24, MC08, NT23, PGM09]. **elastodynamic** [BCC22]. **elastomers** [Zhu15]. **elastostatic** [GG16]. **electric** [DD94]. **electrical** [HLN12, KL24]. **electrically** [ATS19, SFDE15]. **Electromagnetic** [CH15, BBF+24, BH02, Cai02, DMBH24, HL20, VW05, WKH25]. **Electromagnetics** [Ano02c, CCP22]. **electron** [SL15]. **electrophysiology** [GLS15]. **electrostatic** [Tor16]. **element** [AN20a, AK01, AHL25, ARPR01, AB11, APV14, AL97, ANN22, BNP14, BBdD21, BDFS19, BK96, BS24, BKM+21, CLLS06, CCG10, CZZ17, CBK01, CDS02, CLZ02, CLZW13, CLCH19, CFZ21, CT17a, CKW10, CLR19, CH22a, CG17, DAN25, DRV26, DHWZ18, DY01, DLZ16, DL23, EHS02, FF95, FYL08, FH18, FF26, GQL24, GAN20, GMM09, GLX23, GH18, GH06, GZZ25, HD24, HMX22, HZZ20, HR01, HW18, HLUT26, HCYY20, HL21, HCH20, HX02, HL20, HS20, HZZZ24, HLL25, JS21, Jan98, Jeo98, JM03, JS05, JLZ08, JK08, KS18, KORS17, KL00, Kum23, KP18, LL04, LSY24, LLS03, LC18, LMRV23a, LMRV23b,

LGC+20, LZ20b, LSY22, LFL22, LZL23, LLR24, LZ21, Lic22, LLL24, LL25, LB93, LLC16, LC19, LZCW21, LGN22, LR25, LSZ26, LWX19, LL10, LL12b, MR15, MH22, MN16, MSZ06, MC08, MS18, MS99, MS19, MM20, MN24]. **element** [MNN25, MY17, NBL11, PPH+21, PP97, QL25, RNT26, Rei24, SW96, SXYY06, SK24, SH23, SSH25, SBMS22, SW98, SvVW22, Sto25, Svá19, TH24, VW05, WY16, WWX18, WHTZ18, WXWL19, WWH21, WLB22, WLPV15, Xie08, XY15, XZ01, XYZ21, XZ25, YZB20, YS23, YX24a, YL24a, Ye00, YZ21, ZRR23, ZP06, ZZP23, ZSB01a, Zha14, ZPY15, ZT15, ZHY19, ZZC20, ZW23a, ZXL24, ZPY25, ZH25, ZRW26, ZSHZ15, ZW20, ZW23b, ZW23c, Zho26, aZWL23]. **element-in-space** [SvVW22]. **Elementary** [Gér19, FH05, Lóp18]. **elements** [AS02, ASS10, AAQ15, Awa13, BKK17, BK24, Bra01, CMM21, FF95, HN18, HS03, HSY16, HY18, HMM21, KST21, LLS94, LLS96, fLL05, LL07a, LPSSP00, MHR21, MTH21, NW22, SL15, SPS18, SH23, SLK20, TH19, XZ24, YDF97, YLBL12, Ye04, YZ24, dFGAJN18]. **elevation** [PK94]. **elimination** [LQW18, WW12]. **Ellipsoidal** [LLLH23, LLC26]. **elliptic** [AU20, AC05, ACH10, AHC11, BMLC26, CDP03, Cas07, CWX12, CP15, CH22a, DFR07, DJZ25, DNS21, FK98, FZ12, FYL08, FF26, Gia20, GM14, GLX23, GH06, HWS26, HR01, Hol01, HH19b, Jan98, Khl18, Li05a, LMT01, LR25, MTH21, OP11, Per22, Pet02, PSNP11, SXZ06, SSH25, WHTZ18, WHS18, WQP23, XZ03, Yan01, YZ24, YM24, ZZP23, ZB12, Zha14, ZYC19, ZHY19, ZCB21, ZRW26, ZL16]. **elliptic-type** [HH19b]. **embedded** [BR15, Mai20, She09]. **embeddings** [GHdN12]. **Emden** [DAN25]. **empirical** [AAPCC24, CDP09, CHRX06, LP19, MNPR06, Tad19, Yan19]. **end** [PJ20]. **end-to-end** [PJ20]. **Energetic** [ADG17]. **energies** [LZlL26]. **Energy** [ABI15, GWC24, KU18, ZPY25, Ble07, CZ20, CFC23, EOR18, GZW18, GGRBRG21, HL08, Hes09, KLY26, KL22, KF19, LSY24, Leo13, LMYL19, LZ22, MWZZ23, MS22, SJJY21, WW19, WZzS21, XPY26, ZYB18, ZY20]. **Energy-conserving** [ABI15, MWZZ23]. **energy-minimizing** [KF19]. **energy-preserving** [WW19, WZzS21]. **Energy-stable** [ZPY25, GGRBRG21, XPY26]. **Enforcing** [HSV09]. **engineering** [KL24, SEE96]. **enhanced** [BH25, BFFM24, KKL+22]. **enhancement** [CBLZ26]. **Enhancing** [GGAVGG+19, GJU22]. **enriched** [HT12, ZRW26]. **ensemble** [JY22]. **Entropy** [CDP09, BD18, Mai06, RW26]. **environment** [ZGGW12]. **epidemic** [Kim06]. **epitaxial** [WlL26a]. **Equal** [CK03a, Möß10]. **Equal-Norm** [CK03a]. **equality** [Yao19]. **equalizing** [LLC26]. **equation** [ADG17, AKS23, AK25, ANN22, AR20, AC00, BSK19, BBdD21, Bru23, CLC16, CC22, CBK01, Che02, CFZ21, CJW22, CGHK23, CHS17, CGS93, DFOS23, DD94, DLS14, FZ12, FYL08, dLL19, FKP26, FKT20, FL23, FL24, FQH25, GT14, Gil17, GM24, GM22, GWC24, yGSlX03, GW14, Han05, HT24, HS13, HLUT26, HR02, HY18, HS16, HS20, Jeo98, JM03, JlLZ20, JZ24, JSW20, JLW20, KU18, KS23, KP95, KL22, KA97, KN14, KNQ16, KP18, Kun01, LRY23, LM14, Li05b, Li08a, Li09, Li10a, LMYL19, LS20, LZ22, LZL23, LZ25, LLY26, LX26a, LQW18, LJ18, LSZ26, LL07b, LWX19, MWZZ23, MGSS22, MS99, MNN25, MS16, NV10, NSD24, PM17, PGB15, PTC12, PP23, QZX23, QX21, Ryn00, Sch09, SW96, Spe23, SLK20, Sto17, SXWG22, Tau19, TZ07, TGA96, WL12, WZJ18, WZ19, WSL+19, WWH21]. **equation** [WZzS21, WC25, WZ10, WLL26b, Xu14, YZLL24, YXM23, YH25, ZT14, ZSB01b, ZHY19, ZHzSR21, ZZL+24, ZW12, Zho25, dCFCF20]. **equation-based** [FKT20]. **equations**

[AD24, AL21, AG98, AB02, An20b, AB23, Ang00, APV14, ACPV21, ANGV19, ACH10, AHC11, Awa15, Bai99, BNP14, BP93, BPW95, BCZ23, ByLl01, BF11, BV24, BK16, Boc04, Bra01, Bre95, BFCIV22, CDP03, CR23, CCG10, CJX17, CHS21, CMX97, CP99, CWX06, CLL08, CLZW13, CS19, CLCH19, CZ20, CB25, CtTB21, CS94, ÇY23, CLM18b, CLM18a, CN96, Cum96, CT17b, DFR07, DM93, DPS93, DX20, DM19a, DM19b, DKK22, DS01, DKMT20, DNS21, DL23, DTZ24, DX10, EOR18, ESTW19, ER99, FH05, Fas99b, FMP22, FR10, dLL19, FMH26, FZLZ21, Fur26, GHV25, GS18, GAN20, GO26, GRV22, GH99, GLO10, GH18, GHJZ23, Gu17, Gu19, GH08, GQ22, yGS08, yGqW09, GW21, Gut21, Han06, HD24, HBMY14, HMX22, Hau97, HL06, HWZ22, HKR21, HQR23, HK21, HBM03, HS08, HCYY20]. **equations** [HSY16, HY18, HH19b, Hua06, HZHL12, HW19a, HJYZ23, Jan98, JJLR14, JSSE97, JLZ08, JY22, JK08, JRS15, KNP98, KY01, KKP19, KKK24, KL17, KHM16, KC16, Kum23, LP21, LD22, LN14, Lee03, Li04, Li08b, LC09, LC13, LD16, LCC19, LZ20a, LZY98, LMV11, Liu99, LHY08, LY08, LLC16, LC19, LGN22, LWWZ22, LX26b, LK20, LLY12, Lut04, MS22, Mai20, MN16, MS18, MXO13, MG19, MMNM23, MY17, MS98, Nai12, O'N18a, PO24, Pen98, Pet02, Pla12, PS98, PF23, QL25, Qiu23, RZ98, SM24, SGK26, She13, SY19, SK24, SS15, SZJ21, SvVW22, Sun14, SLC26, TH19, gTpM02, TQ17, TTC21, TSZ98, VW02, VNS18, lWyG06, WY16, WY17, WW19, Wan19, WMW21, WLW23, WK20, WQP23, XH13, Xie08, XY20, XZ03, YTL$^+$20, YL24a, YZ13, YZ21, YZ24, YH25, ZVW95, Zen19, ZL24, ZV08, ZT15, ZYB18, ZCL20]. **equations** [ZJZ21, ZGV22, ZXL24, ZH25, ZD14, ZCY20, ZQS22, ZZD25, ZhXpZ16, ZWZ19, dH94, dFGAJN18, vdHv97]. **equiangular** [Wal25]. **equilibria** [dCFCF20]. **equilibrium** [AKKN22, BSSM22, sCLC13, HQHV20, HMQ22, HH19a, KS23]. **Equivalence** [SC08]. **equivariant** [Kni24]. **Erasures** [CK03a, AS24]. **erasures-a** [AS24]. **ergodic** [ZXC12]. **ERM** [ZXC12]. **Errata** [Ano04c, Ano08]. **Erratum** [Ano16, CLM18b, Dũn12, Fus08a]. **Error** [Alz10, Ang00, Ano01b, BFFM24, CCG10, CDM$^+$24, Dav23, DM22, DMS22, FS25, GAN20, GRB12, yGW07, KF03, LB93, Per22, Sch95, YDF97, ZL21, aKT17, AK01, ARPR01, ALV26, BN19, Bar03, BBB21, BGH15, Bra01, BMLC26, CLC16, CR23, CC22, CBK01, CK11, CLZW13, CCE$^+$12, DFOS23, DRV26, DS24, DY01, DLZ16, ER21, FL24, GMBS23, GK24, GLX23, GHJZ23, GN13, HORU19, HR01, HWZ13, JS21, JK08, Kac18, KY01, KK05, KLS19, KMMI19, KL17, KNV01, KK20, Kun01, LC21, LS20, Li25, LMV11, LMT01, LY01, LWW21, LGN22, LL10, LL12b, MS22, MSZ06, MRH15, MW01, NSW16, Pet00, Pet02, PS05, PP23, Qiu23, RGB13, RDEG24, RWB$^+$24, Sch15, SWH20, SY19, TZ03, WZJ18, WXWL19, WZzS21, WMW21, War13, WSM13, XHC15, XLW26, Xu14, Yan01, Yan03, YS23, Zha01, ZSB01a, ZHzSR21]. **error** [ZW22, ZC14, ZL20]. **error-optimal** [Sch15]. **errors** [CLMR15, DM15, Nes16, Sch23, ST23, Wan08]. **ESDIRK** [BBB$^+$16]. **essence** [JAA22]. **Essentially** [MTH21]. **estimate** [BBB21, BMLC26, CC22, CK11, CLZ02, DY01, LL10, MHR21, Qiu23, ZHzSR21]. **Estimates** [LLD24, ARPR01, ALV26, AL97, BFFM24, CLC16, CHS21, CLZW13, DFOS23, DRV26, DMS22, DG16, FS98, Füh08, Fus08a, Fus08b, GMBS23, GRB12, Gom95, GLX23, GHJZ23, GZ13, GN13, KY01, KL17, KNV01, KK20, LS20, LMT01, LY01, LWW21, LGN22, Low05, LL12b, MS22, MSZ06, Per22, PS05, PP23, PR99, RGB13, Sch95, SY19,

Spe17, WZJ18, WZzS21, WMW21, War13, WSM13, XLW26, YS23, Zha01, ZC14]. **Estimating** [ER21]. **Estimation** [Ano01b, ST23, BN19, BL09, BMP+19, BCMR24, Bra01, Ehr00, HHSM24, HHKS24, KL19, KF03, Kun01, MRH15, MW01, NP24, WK93, aKT17]. **estimations** [WZM21]. **estimator** [HORU19]. **estimators** [AK01, Pet02, Yan01, Yan03, ZSB01b, ZSB01a]. **Euclidean** [Bün11, Kun09, NSW98]. **Euler** [AK15, Boc23, CLC16, JL19, KvL95, XKY15, ZL24]. **evaluated** [ST23]. **evaluating** [WZtX16]. **Evaluation** [CWLH95, GP13, Bar03, Bre19, CN96, DP13, GG16, GR19, GJW20, IP15, Joh13, Lee21, Pan95, Sch23, SB22, WG19, YY25, aKT17]. **evolution** [Fur26, GH99, GH18, MU14, RS19, SvVW22]. **evolutionary** [BPW95, LWWZ22, Xu14]. **evolving** [ABMM19, WK20]. **Ewald** [Tor16]. **Exact** [And20, AR23, ATS19, AGU25, SLN14, ZV08]. **exactness** [HW12]. **example** [PW94]. **examples** [Kle21]. **exceptional** [Boc23]. **Excesses** [BCHL03]. **Existence** [MSS02, CCH+11, DX20, Far10, LM06]. **exotic** [KXL24, lZmCRX03]. **Expanded** [SPS18]. **expansion** [AW24, CL07, HLN12, LL07a, NP18, aKT17]. **expansions** [Atr12, CI13, Dam07, DHO16, DGS18, GJU22, HWZ13, JLZ08, LWW21, LT13, Lóp18, RTV21, Tem07, WZL17, WWX18, YX24b, vdMNS03]. **expectation** [HCF+21, ZTHW22]. **experimental** [CBK01]. **Experiments** [Wil98, KMO+14]. **expiry** [ALADH+19]. **Explicit** [ALRÁY22, BCZ05, CHL17, CHMR97, CMR07, CLMR10, Hal95, HH15, MT26, Nie98, PIZ01, ZP06]. **exploitation** [AG98]. **exploiting** [AD08]. **Exploring** [CDTV99]. **exponent** [CBLZ26, Don19, Pla00]. **Exponential** [BD21b, CM12, JKLY13, KSUW23, SRC25, ZPR03, ZCL20, CDPS22, CB25, CsL18, DHH25, Don19, FQH25, LW23, LG26, LM06, Miy19, NV10, RCJ+23, WZtX16, ZL17, ZP19, BD21a]. **exponential-polynomial** [CDPS22]. **Exponentially** [CFC23]. **exponentials** [CCS16, JGW15]. **expressed** [CWW24]. **expression** [CGDHRÁ+19, HSZ24]. **extended** [CG26, SSK24, Yem22]. **extension** [AVGGEG+19, CMR22, DZ04, TY18, YX24a]. **Extensions** [CG19, HR13, CKK16, GGAVGG+19]. **extensive** [CHS20, SO20]. **exterior** [GMM09, yGS08, yGjW10, LST11, LG13, Lic22, LLZ25, SBEH24, SH23, TH24]. **extraction** [MSW+22]. **extragradient** [AKKN22]. **extraordinary** [Pra98]. **Extrapolated** [BT24, aZWL23]. **Extrapolation** [LLZ10, fLL05, Xie08, BRZ94, CL07, HZHL12, JLZ08, RZ98, Sid17]. **Extremal** [SW04].

factor [Han98]. **factorisation** [Gér19]. **Factorization** [CCS16, AH96, GKS19, GMRS97, Sau06]. **factorized** [NBL11]. **factors** [MN15]. **fairness** [GU02, KP04]. **false** [Kle21]. **Families** [MH17, PP24, CL02, Gro13, Led15]. **family** [DLUS17, KST21, Wat94, Xu98]. **Fan** [Hof06]. **far** [SFDE15]. **Fast** [AZW15, BCM99, GS19b, HPS19, IP15, KXL24, Khl18, KP98, KCCV23, KN14, MB20, MFB+11, Par22, AC00, BMB14, BA15, Bra01, Cai02, CJX17, Che02, CLL08, DPS93, DX20, DHSW19, DES21, DLK12, GG16, Gut21, Han05, JZ10, Joh13, KS23, LD22, LT98, LLY12, QX21, SFDE15, WLB22, YB21, YZ13, ZGV22, SF14, Ste98]. **fast-multipole** [WLB22]. **Fatou** [Cho95]. **FBPINNs** [MMNM23]. **FDM** [ATS19]. **feasibility** [sCLC13]. **feasible** [ZLPX23]. **feature** [AAPCC24, MSW+22]. **features** [HG25]. **Feedback** [AHS20, AKS23, HKW25, KP18].

feedforward [Mha93]. **Fekete** [BDN26]. **FEM** [ADG17, AMK19, AGS24, Don19, EEK21, FMP22, FKP26, GO26, MW01, MS98, Per22, SPS18, SY19, Spe23, TTP25, WBY24, Yan03, ZSB01b]. **FEMs** [GS18]. **Fer** [Ram18]. **fermion** [ZW25]. **ferrofluid** [ZPY25]. **ferromagnetic** [APK20]. **FES** [ZRR23]. **Feynman** [HT24, NSD24]. **FFT** [BZI19, BKP20, DG16]. **FFTs** [HKR04, Nes16]. **fidelity** [BZ18, GDB24, KO26]. **field** [BK24, BKM+21, DD94, GHKL18, LMYL19, LGC+20, LS20, LYZ26, MSW+22, QZX23, SFDE15, XPY26, ZY20]. **fields** [BH02, FFMZ24, GG16, HHKS24, LW23, Sor18, TS05]. **fifth** [KLY26]. **Filon** [XHC15]. **filter** [CMX07, CW09, CSZ26, EGL13, Jia09b, TL18]. **filter-based** [CSZ26]. **filtered** [WlL26a, ZXL24]. **filtering** [MP23, ZZCC24]. **filters** [CL02, Jia09b, MWW13, dVR19]. **financial** [ALZ02]. **Finding** [NZ22, ZR24, Yao16, Yao19]. **Fine** [JN18]. **Finite** [BF03, CG17, EHS02, FKT+19, JK08, KP18, LMWX13, MMNM23, NBL11, VW05, AK01, AHL25, ARPR01, AB11, APV14, AL97, AAQ15, BNP14, BDYY20, BBdD21, BDFS19, BKK17, BK24, BEPS96, BK96, Bra01, CL12, CDP03, CLLS06, CCG10, CZZ17, CMP23, CBK01, CCN+16, CLZ02, Che06, CLL08, CWX12, CGH+13, CLZW13, CLCH19, CFZ21, CEHK18, CKW10, CLR19, CLM18b, CLM18a, CH22a, Dav23, DHWZ18, DY01, DLZ16, EBS22, FC25, FF95, FWW06, FYL08, FZLZ21, FF26, GQL24, GAN20, GMM09, GK19, GLX23, GH18, Grö03, GQ22, GZZ25, HD24, HMX22, HZZ20, Hem95, Hem96, HR01, HW18, HCYY20, HL21, HCH20, HX02, HL20, HS20, HZZZ24, HLL25, JS21, Jan98, JLZ08, JRS15, KY01, KST21, KS18, KORS17, KH05, KL00, KHM16, Kum23, LLS94, LLS96, LSY24, LLS03, LC18, Leo13, LC09]. **finite** [LC13, LGC+20, LZ20b, LSY22, LZL23, LLR24, LZ21, Lic22, LL07a, LLL24, LL25, LB93, LLC16, LZCW21, LGN22, LPSSP00, LWX19, LL10, LL12b, MR15, MN16, MSZ06, MC08, MY17, MTH21, NV10, Noe95, PSW24, PL05, PP97, PP23, QL25, RNT26, Rei24, SL15, SW96, SXYY06, SRFH12, SSH25, SvVW22, SLK20, Sto25, Sun08, Svá19, TZ05, TH19, TZ07, TH24, WY16, WZL17, WZJ18, WXWL19, Wan22, WLPV15, WQP23, Xie08, XY15, XY20, XZ24, XZ01, XYZ21, XZ25, XZZ26, YDF97, YS23, YX24a, YL24a, Ye00, YZ21, YZ24, YXM23, ZRR23, ZST19, ZZP23, ZSB01a, Zha14, ZPY15, ZT15, ZYC19, ZCB21, ZW22, ZW23a, ZXL24, ZPY25, ZH25, ZD16, ZSHZ15, ZW20, ZW23b, ZW23c, Zho26, dFGAJN18]. **finite-difference** [JRS15, KY01]. **Finite-element** [NBL11, KS18, Sto25]. **finite-frequency** [BDYY20]. **finite-part** [WZL17]. **finite-volume** [Hem95, Hem96]. **finite-volume-finite-difference** [CEHK18]. **finitely** [MNW04]. **fire** [ABMM19, BKR25, FPR+12]. **first** [CLMR10, HR02, HZHL12, LWWZ22, Nai12, Pla12, ZLPX23, Zhu19]. **first-** [LWWZ22]. **first-order** [ZLPX23, Zhu19]. **fitted** [CFC23, KL16, ZL16]. **Fitting** [JF02, BCM99, BGT26, DZ04, DSS09, ECS18, IJH26, MJM23, RW21, WK93, ZS24a]. **Fix** [GW17, WL05]. **Fixed** [CZS16, LSXZ15, MHR21]. **fixed-point** [LSXZ15, MHR21]. **flat** [KS20, SRFH12]. **flatness** [GL17]. **Flexible** [HL05, AEI25, MC23]. **flights** [ZD17]. **Floquet** [BB26]. **Flory** [ZY20]. **flow** [ACM+22, ATS19, AP25, BDFS19, BSSM22, BCO24, CLL08, CT17a, DS24, DHWZ18, dLL19, GHKL18, HFH15, HJYZ23, KS18, KH05, KCCV23, KESR22, LG13, LYZ26, Nit22, WBGG22, lXyG02, Ye04, ZPY15, ZGV22, ZW25]. **flows** [BBB+16, CD15, Don20, FZ19, GHLU19, GJMY19, KBL22, KMMI19, KvL95, PIZ01, PCM+96, PJ20,

RHZ17, RQS26, SBZR19, TL18, Tha19, TH24, ZPY25, ZS24b, aZWL23]. **fluctuations** [KK20]. **fluid** [AMK19, AP25, KMMI19, PJ20]. **fluids** [BDFS19, DGMM16, KRP19, SJJY21, VMR26]. **flux** [CtTB21, DLZ16, LK20]. **focal** [PW08]. **focusing** [LRY23]. **Fokker** [WSL+19]. **fold** [Jia11]. **FOM** [Cul96]. **force** [BS24]. **forced** [FKT20]. **forecasting** [BCO24]. **Foreword** [Buh99, HN96, How96]. **form** [AM14, CCLM21, FGS16, Hub12, HJ25, Khl18, LL99, LKW17, Rei93]. **Formal** [Sal98]. **format** [SSK24]. **formed** [Mai06, SEE96]. **forming** [RTV21]. **forms** [BM00, GGW24, Loh23, Mar95, ZRR23]. **formula** [CG15, Fra99, SS13]. **formulae** [CG04, GS10, MC10, Xu98, Xu00]. **formulas** [BB07, DMN25, FXZ96, Jeo98, KLY26, SX07, Wal95]. **formulation** [AP25, BKM+21, CL18, DGMM16, HJH12, Lep23, MS16, Par20, RS19]. **formulations** [TW98]. **Fortran** [Kir98]. **forward** [NH26, NSD24]. **FOSLS** [RS19]. **four** [GMS12, NSS04]. **four-directional** [NSS04]. **four-point** [GMS12]. **Fourier** [SF14, Ste98, BZI19, CGW13, FC25, FQ10, GLS25, JZ24, JSW20, LS20, LL21, LL07b, LP14, QW11, SRC25, SL05, SS13, TZ03, YX24b, YCQZ24, ZL21]. **Fourier-spectral** [LS20, ZL21]. **fourth** [CFZ21, DNS21, HWZ22, ILHH22, Li05a, LCC19, MS19, WHTZ18, WZzS21, WlL26a, ZZC20, ZW22]. **fourth-order** [CFZ21, DNS21, FZLZ21, HWZ22, ILHH22, Li05a, LCC19, MS19, WZzS21, WlL26a, ZZC20, ZW22]. **Fowler** [DAN25]. **Fractional** [MP18, AMK19, BlH23, CC22, CDM+24, DKMT20, FYZ25, FZLZ21, Fur26, GM17, Gu20, GW21, HB24, HT24, HLC26, HX17, HS20, JS21, JlLZ20, JLW20, KM19, KS17, LD16, LJ18, LZCW21, LWW21, LLD24, LZlL26, LBCZ18, MS18, MNC16, NSD24, PM17, PO24, Pau26, PF23, QX21, Ryd19, SM24, Sou22, SU12, SLC26, TDG16, TTP25, WZ19, WC25, WLL26b, WLW23, XLW26, YCQZ24, YZLL24, YXM23, YZ25, ZAL26, ZJZ21, ZHzSR21, ZD14, ZD16, ZW12, ZW23b, ZW23c]. **fractional-order** [Ryd19]. **Fractional-step** [MP18]. **fractional-time** [BlH23]. **fractional-type** [WC25]. **Frame** [AS21, CR08, MRS18, Yu24, BlH23, BMRS20, CP14, CGG+20, DFR07, JAA22, Jia09b, KKL03, LL11, LS18, MR10, MRS14, PŠWX03, PWL20]. **Frame-normalizable** [Yu24]. **framelet** [CCSS09]. **framelets** [Lem09]. **Frames** [BCHL03, BC20, BF03, CK03a, CC03, GH03, HM03, HLT11, Jia03, Sun08, AS24, BS06, BH15, BLP19, CL12, CCH+11, CK07, CCN+16, CKK16, CJKK18, CGKK21, Chr15, CSS98, CHSS03, DST04, DM15, Far10, FGG+17, FM18, FS07, FOW14, FWW06, Füh08, GS25a, Grö03, JJK13, LPY10, LMO14, LH13, LA22, LL13, MNPW00, NS21, Onc14, ON18b, PR19, Søn07, Wal25, Zha05, CS03]. **framework** [AM24, ABC14, BFFM24, BFCIV22, CL22, DAP13, GZA20, Par20, Pra23, WZtX16, ZRR23]. **Franklin** [NP18]. **Fredholm** [DM19b, FR10]. **Free** [KL04, PCM+96, BGT20, CG17, DAP13, DF26, JW95, KL22, Kum23, KF19, LAG+24, LLS03, LR19, Ock96, Urb95, WWH21, YZ21, ZY20, ZZL+24, ZL16]. **Free-knot** [KL04]. **freedom** [Loh23, ZRR23]. **Freeknot** [KL07]. **frequencies** [AGS24]. **frequency** [BDYY20, GHV25, GG06, KCW17, KL19, LA22, LHY08, MGSS22, Onc14, RST+14, SF14]. **frequency-concentrated** [GG06]. **friction** [DKK22, Don20, HKRS14, XKY15]. **frictional** [SRC25]. **Friedman** [NP18]. **Friedrichs** [BDM20]. **Froissart** [BC99]. **Full** [DS01, Fou23, ASS10, LZ25, Spe23, Tyg23]. **full-space** [Spe23]. **fully** [CHS21, GAN20, HS20, LWL17, VNS18, Wan19, WC25, XPY26]. **Function** [HM03, AD24, AG25, Alz10, AM14, Boc04, BEG22, BCZ05, CTZ02, CH22b, CGH+96,

DSW05, DMN25, EH24, EGST13, ER21, FF05, GR19, IB17, JW95, Kot08, KSUW23, LP19, LW14, LLY06, LL99, LT13, Mac94, Mai10, MNW99, MP00, NG99, Pau26, Rip99, SMK22, Sch95, Zho25]. **function-valued** [Zho25]. **functional** [Gat21, Liu99, RLGGAV19, SSK24, Sun14, ZD17]. **functional-differential** [Liu99]. **functionals** [BM00, MR10, Tad19]. **Functions** [Zoz15b, BCM99, Bei23, BGH15, BGW24, Bes03, BMB14, BZI19, BCMR24, BRR18, Bre19, BDM20, BW15, Cai02, Car95, Cas07, CP03, CX04, CSW14, CL16, CTZ02, CG10, CJKK18, Chr15, CSW96, De 06, DG16, DLU19, DX10, DGS18, Fas99a, Fas99b, FPR$^+$12, FHN94, FS98, Füh08, FW15, GP13, GHdN12, GG06, GGL07, GZ25, GJU22, Gro13, GH16, GS10, yGSlX03, GYZ17, Han98, Han24a, Hub12, HJ23, HJ25, JS99, Jüt98, KKLY10, KL04, KL07, KK26, KR19, Le 05, LST11, LM14, Len96, Li04, Li05a, LK05, LWL17, LWW21, LLD24, Lóp18, Low05, LP14, MM00, MZ22, MST05, MNW04, MS04, NP18, NSW16, PŠWX03, PRS24, Pet00, Pin04, PT21, RZ10, RS99, RY13, Sau06, SW06, Sch11a, Sch26, SS08, SRFH12, Sto96, SM99, SYCJ18, TZ05, War13, WH07, Wen95]. **functions** [WK20, Wu95, WFL02, WZtX16, XLW26, Xu98, YX24b, ZR24, Zoz15a]. **fundamental** [AC05, Ant18, BCO24, BBT25, FK98, LL98, Li05b, Li08a, Li08b, SB22, WZ10]. **fundamentals** [HCF$^+$21]. **furnaces** [BGMS07, BGG24]. **Further** [AHPP24]. **fusion** [BH25, CCH$^+$11, CP14, HB24, LH13]. **fuzzy** [DLK12, Tal19].

G [DDP14]. **G-symplectic** [DDP14]. **Gabor** [CL12, CC03, CKK12, CJKK18, CGKK21, Chr15, DM15, FS07, FGO14, Füh08, GS25a, JJK13, LL13, LL11, LW03, ON18b, RST$^+$14, Søn07]. **Galerkin** [AMK19, AU20, AK15, AS05, BN19, BQRB13, BDFS19, BDM20, CMX97, CMX02, CP15, CT17a, ÇY23, CHP19, CH22a, Cop98, CCE$^+$12, DHK98, DS24, DS01, FLM96, GS18, Gia20, GK24, Gom95, HL06, Hua06, JL19, KNP98, KKK24, KSWX24, KF03, Kum23, LN14, LC20, Lep23, LZ20b, LLY26, LLC16, LGN22, OBS15, QL25, RNT26, Ryn00, SXZ06, SH23, VNS18, WY16, WY17, WXWL19, WaZL24, WKH25, WY20, YS23, Yan19, Zam26, ZZP23, ZB12]. **Galerkin-characteristic** [CCE$^+$12]. **Galerkin-mixed** [GS18]. **Game** [AVGGEG$^+$19]. **gamma** [GR19]. **gas** [ZW25]. **Gasca** [CP07a]. **Gauss** [Dou94, yGqW09, LT13, MWZZ23, SC08, WZL17]. **Gaussian** [CC94, CSW14, Han24b, HHKS24, KS20, LS24, MC10, RS99, SX07, SHTS14]. **Gaussians** [Xia13, YZ08]. **GC** [CG19]. **GCUR** [CWX24]. **Gegenbauer** [ESM13, VLV26, WZ20a]. **gene** [CGDHRÁ$^+$19]. **general** [AN20a, Alb15, ABC14, BB24, BCZ05, BRZ94, CH22b, FHK06, Gut21, HL16a, HL18, Han06, HKR21, Kos15, LS19, LR25, RL07]. **generalisation** [SU22]. **Generalised** [HJ23, CtTB21]. **Generalization** [NG99, ZXC12, CGP95, CK07, CKBP11, JS95, MNPR06, Świ19]. **Generalized** [BRS13, CdGDN20, Dar03, SL05, WL05, gYyG12, Zoz15b, AB11, AKKN22, BR23, CLC16, CG15, sCLC13, CMZ26, CHL17, DP06, FW25, GW17, GP13, Gat21, GRB12, GH99, GW14, IS13, KRP19, fLLfDX21, LWL17, MC23, MN00, Pen98, SF14, WLL26b, ZR24, ZL20, Zoz15a]. **generalized-functions** [Zoz15a]. **generally** [Gon93]. **generated** [CG06, Chr15, CSW96, JS99]. **generating** [AG25, CK07, NSS04]. **Generation** [FWW06, KF19, SR02, CGR11, Cop98, RLGGAV19]. **Generators** [Jia03, KMSV24]. **Gennes** [ZY20]. **genus** [LLC26]. **genus-0** [LLC26]. **geodesic** [BMK15, SLN14]. **geodesics** [NZ22, SLN14]. **Geometric**

[GPG15, HNN23, Mai10, MO16, PFMS05, BS06, BI11, BWX97, FH05, JKK+12, Kni24, KK26, LM04, Leo02, LO08, MS18, RW21, Wan19, ZLPX23]. **Geometrical** [Ano02d, ACDR24]. **geometrically** [ZXC12]. **geometries** [GJW20]. **geometry** [BZA24a, BZA24b, BBF+24, FÁG19, Fin19, NS21, PW08, PGM09, PGB10, Rei24, RAB+09]. **geothermal** [GQL24, LGQ24]. **Gersgorin** [Hof06, CKBP11]. **Gibbs** [RY13]. **Ginzburg** [GS18, HX02, LL07b, ZHzSR21]. **given** [BSK19, NZ22]. **Givens** [CM99]. **glacier** [AHPP24]. **Global** [Kim06, KP18, LSW17, Len94, Yao19]. **globally** [BF94, GZ25, LWZ19]. **GLS** [DTZ24]. **GMRES** [BCM99, Cul96, MGSS22, MS98, Smo07, WLB22, dH94, dCB07]. **GMRES/FOM** [Cul96]. **good** [Rip99, Sch11b, WS01]. **Gordon** [LZ22, Li25, WZJ18, GW14]. **governed** [FS25]. **GP** [DF26]. **GP-CMRH** [DF26]. **GPU** [ZBT+22]. **grad** [JJLR14, dFGAJN18]. **graded** [CDM+24, QX21]. **Gradient** [DY01, AHPP24, BMK15, DSS09, DDLL23, HLC26, HG25, HJYZ23, LYZ26, Par22, RQS26, TTC21, Wan12, Yan01, Yan03, YTL+20, Zha01, ZW25, ZS21]. **gradients** [YWC12]. **Graduated** [BCE+09]. **Gram** [CK07]. **Gramian** [BH19, Ryd19]. **granular** [BS24]. **graph** [DGMES13, DT12, LN19, MSL21]. **graphs** [KK02]. **Grassmann** [BZA24a, BZA24b, ZS21]. **grating** [BBR02, LN14, Wan22]. **Greedy** [GN01, Tem01, Tem07, TYY11, CDPS22, DT96, GN08, HWS26, LT06, LT12, Pra23, QW11, Tem98, Tem00, Tem02, ZC24]. **green** [FY13, Cai02]. **Gregory** [Ano93]. **Greville** [CHY11]. **grid** [BNP14, BMK15, Che06, CLCH19, CH22a, CH22b, DG16, HD24, Hem95, HCYY20, HCH20, KS18, KHM16, MR15, PGB15, Sto25, SDZ26, XZ01, ZZP23, ZTHW22, Hem96]. **grids** [ANSZ17, BNR00, EMU26, FF05, Hag98, KXZ04, LQ14, Noe95, Pla00, PS05, SXYY06, Ste98, WWX18, Wie97, XZ25, Zha01]. **Gross** [FQH25, LZ20a]. **Grossman** [JMO00]. **ground** [ZW25]. **groups** [MP23]. **growth** [RH15, RS99, RMCCG+19, ZST19]. **Grünwald** [CC22]. **Guaranteed** [HFH+07]. **guarantees** [HD20, Kac18]. **Gudkov** [Hof06]. **guesses** [CV23]. **Guest** [Ano95]. **guided** [BPJ02]. **Gupta** [Ock96].

h [WY17, WZJ18]. **H2Opus** [ZBT+22]. **Haar** [ZhXpZ16]. **habil** [Sil99]. **Hadamard** [WZL17]. **Half** [YF23, GG16, Li94, LWL17, lWyG06, gYyG12]. **half-plane** [Li94]. **Half-quadratic** [YF23]. **half-space** [GG16]. **halfband** [MWW13]. **Hamilton** [TQ17]. **Hamiltonian** [AMM20, ABI15, CCDL20, DDP14, HBH24, JM00, Mar94, MO16, RWB+24]. **Hammerstein** [KNP98]. **hand** [FR10]. **handbook** [BZA24a, BZA24b]. **Hankel** [AM14, BW20, Li94]. **Hankel-norm** [BW20]. **Hanrahan** [Han05]. **hardening** [GN13]. **Hardy** [BB25, CS06, HN18]. **harmonic** [CCP22, FMP22, HS13, HY18, KP98, LHY08, LWX19, Sch09, WWX18, WZtX16, Xu04a, YX24a, YH25]. **harmonics** [FM14]. **HCT** [LLS94]. **HDG** [LC21, MNC16]. **heat** [BDMR10, Bru23, CN96, FKT20, HT11, HXC10, JGW15, LM14, LK20, MS16, PCM+96, Tau19, TGA96, WG19]. **heat-conduction** [CN96]. **heating** [BGMS07]. **Heaviside** [RY13]. **Hele** [LYF+21, ZL21]. **helical** [Mon09]. **Helix** [PW94]. **Helmholtz** [AGS24, BNPP20, CHP19, DRS08, DLS14, GMM09, GPS21, HH15, HJH12, HY18, Kir98, Li08b, Li09, MGSS22, Spe23, Sto17, Sto25, YH25, Zho25]. **hemivariational** [Yao16]. **Hermite** [ABD08, ABY13, BCHS22, CCMM21, CCS16, CMSS23, DM99, EH24, ECS18, FaKS02, Fas99a, Fra99, Füh08, yGSlX03,

Hak00, HNN23, JL06, KJ09, Luo99, MST05, MS12, Moo17, PFMS05, RW21, RSA14, SX95, TQ17]. **Hermitian** [WMY13, WMB13]. **Hessenberg** [EGST13]. **Hessian** [DNS21]. **Heston** [Zhe23]. **heterogeneous** [NW22, SM24, TS05]. **Heuristic** [MN15, DGMES13]. **Hexagonal** [Jia09b]. **hidden** [CLM96b]. **Hierarchical** [Spe17, AU20, BCC22, FRW25, HORU19, Han05, SO20]. **High** [BNR00, CEHK18, Gat21, HBMY14, IRT23, LD16, LZ22, NP18, Nov00, SLK20, TH19, ZD16, ZZ09, AEI25, AU20, Bei23, BMLC26, CLM03, CCK20, CC24, EMU26, EH24, ESTW19, GL23, GM22, GDB24, Han10, HZZ20, HKR04, HS03, JMO00, Jia09b, JN18, LL12a, LWX19, MS04, NKL+19, PW24, Ram18, TL18, TTC21, WZJ18, ZJ23, ZZL+24, ZZD25, Yem22]. **high-dimensional** [AEI25, AU20, CCK20, EMU26, EH24, ESTW19, PW24]. **high-fidelity** [GDB24]. **High-order** [CEHK18, HBMY14, IRT23, LZ22, SLK20, BMLC26, GL23, GM22, HZZ20, HKR04, JN18, NKL+19, Ram18, TTC21, ZJ23, ZZL+24, Yem22]. **high-pass** [Jia09b]. **High-precision** [NP18]. **High-resolution** [Gat21]. **Higher** [AMU24, CWX12, Fin19, MRS03, ACK19a, ACK19b, CDP03, Füh16, GW17, KL16, Mat09, Noe95, OBS15, WOBL17, Wie97]. **Higher-order** [AMU24, CWX12, MRS03, GW17]. **highest** [ZD18]. **highly** [AK25, DGMES13, GZ25, KXL24, XHC15]. **Hilbert** [BMB14, BMP+19, Chr15, Dam07, HT11, MXY13, PP24, RY16, SM99, Yao16, vdMNS03]. **Hilliard** [CZ20, LYF+21, WaZL24, ZL21, GO26, LGC+20, SXWG22, ZY20, ZZL+24]. **Hilliard-Darcy** [WaZL24]. **histogram** [CP07b]. **histopolation** [BDN26]. **Hodograph** [RM19, AF96, FS94, FaKS02, FGS16, JKK+12, KJ09, PFMS05, Pot95, RSA14]. **Hölder** [AAFV19]. **holonomic** [WOBL17]. **homoclinic** [CS93]. **homogeneous** [AK01, BC99, CHP19, DST04, DMBH24, GJMY19, Jia09a, Kni24, LR07, ZGGW12, ZN18, ZS24b]. **homogenized** [Str95]. **homological** [PR15]. **homology** [PR15]. **Homotopy** [PM17, AF96, Tim21]. **Hood** [fLL05]. **Hopf** [CGS93, ER99, Far10]. **hot** [Kle21]. **Householder** [FWW06]. **hp}** [CMM21, CHP19, CH22a, GW21, Spe23, WY20]. **hp}-FEM** [Spe23]. **hp}-Version** [CHP19, CH22a, GW21, WY20]. **HT** [AU20]. **HT-AWGM** [AU20]. **Huggins** [ZY20]. **Hunting** [CS93]. **Huygens** [IKS10]. **Hybrid** [CM96, LQ14, WG19, Yem22, ACPV21, AC25, BPJ02, BMLC26, CCNT21, sCLC13, CEHK18, FS25, HQHV20, LZ20b, Per22, PR19, Zen19, ZYC19]. **hybrid-mixed** [ACPV21]. **hybrid-variable** [Zen19]. **hybridizable** [LC20]. **hydrodynamic** [GZW18, HLL25, NKL+19]. **Hyper** [DM19a, AZW15]. **Hyper-reduced** [DM19a]. **hyper-reduction** [AZW15]. **Hyperbolic** [Len96, CLM18b, CLM18a, CKM99, DHH25, DLU19, KK05, KKK24, KF03, MV01, Spe25, ZQ13]. **hypercube** [WZ20a]. **hypergeometric** [CDTV99, DGS18, LT13, NP18]. **hyperinterpolation** [Li08b]. **hyperparameter** [HHSM24]. **hypersingular** [DLS14, HWZ13, MS99].

ice [AHPP24]. **ideal** [She08]. **idealized** [Jia09b]. **ideals** [MS04, Xu00]. **identical** [XP10]. **identification** [APPP24, BH23, BJX09, CJW22, FYL08, GZA20, SJJL15, Tan17]. **identity** [GMB97, TSY10]. **II** [BN21, CMX97, DPS93, HL06, Hof06, MPS97, SS13, ZTHW22, zCFX07]. **ill** [Ant18, BL09, BE00, LLY12, XY12]. **ill-posed** [BL09, BE00, LLY12, XY12]. **Image** [LN19, ALS24, BlH23, BH25,

BCE+09, CBLZ26, CZS16, Del17, DLK12, GLM23, HB24, ILHH22, JZ10, LSXZ15, MSXZ13, RWT13, SX09, Zhu19, ZLH+24]. **images** [HMS19, RY16, SF14, ZW19]. **imaging** [BKN11, DGK15, Par20, KMO+14]. **IMEX** [DLM26, TTP25]. **IMEX-L1** [TTP25]. **immersed** [CLLS06, CZZ17, CKW10, GPG15]. **immiscible** [BDFS19, SJJY21]. **immobile** [LZCW21]. **impedance** [BR22, HLN12, QC12]. **implementation** [DHO16, Jan98, Svá19, dH94]. **Implicit** [EBS22, Wie15, XKY15, BB07, CLC16, CLM03, EJ97, FQH25, GH08, GPG15, HBM03, JSW20, JL19, LSZ26, Mui99, Wan23a, Wan23b, vdH93, vdHv97, vdHS00]. **implicit-time** [GPG15]. **implicitly** [FMR00]. **implicitly-defined** [FMR00]. **imply** [Sch23]. **importance** [YL24b]. **imposed** [Awa13]. **improper** [GGAVGG+19]. **improve** [BCO24]. **Improved** [Fus08a, Fus08b, KL17, RWB+24, FJ99, NH26, Sto17, SQ26, ZAL26]. **Improvement** [BCC22, ZL24]. **imputation** [RF19]. **including** [VR26]. **inclusion** [CGM18, TQ24]. **inclusions** [NH26, nCV13]. **incomplete** [GR19]. **incompressible** [An20b, Ang00, BQRB13, BBB22, CLL08, DLM26, DHWZ18, DL23, GHLU19, GJMY19, HQR23, HFH15, KS18, KH05, LHH23, TH24, lXyG02, Ye04, ZVW95, ZS24b]. **inconsistent** [CG26, Sou22]. **increasing** [CSW14]. **increasingly** [KS20, SRFH12]. **indefinite** [YZ24]. **independence** [Ito96]. **independent** [CTZ02, DS00, DSW05, SB22]. **Index** [Ano02a, Ano02b, Ano03a, Ano03b, Ano04a, Ano04b, Ano00a, Ano01a, Cum96]. **indexing** [dB00]. **indicator** [ZQ13, ZG16]. **indicators** [KLS19, LQ14, SBMS22]. **induced** [CGR13]. **induction** [BGMS07]. **inductionless** [ZXL24]. **Inequalities** [GG06, Alz10, Bad19, BR07, RZ10]. **inequality** [JRS15, LB93, Yao16, ZLPX23]. **inertial** [AKKN22, NH26, TQ24]. **Inexact** [WLB22]. **inf** [dFGAJN18]. **inference** [AHPP24, AW26]. **infiltration** [ZST19]. **infinite** [BD10, Buh06, FF05, HN18, KNV23, NW22, lXyG02, Zhe06]. **infinitely** [RZ10]. **influence** [AGU25, BS23, CV23, EHV17]. **informed** [DM22, MMNM23]. **inhomogeneous** [LK20]. **initial** [Alb15, CJW22, CV23, FL24, Kac18, KSWX24, WY20, vdH93]. **initial-value** [vdH93]. **injectivity** [FK10, FM25]. **inkjet** [ALADH+19]. **inner** [DF26, Joh13, Pin04]. **innovation** [Sun08]. **input** [BHM18, CP15]. **input-output** [BHM18]. **insertion** [BGM93, KLNS95, Wal95]. **instabilities** [Sch23]. **instability** [KKP24, TBD94]. **insulators** [GZ25]. **integer** [CHSS03, Ryd19]. **integer-order** [Ryd19]. **integrability** [RS01]. **Integral** [KNQ16, AG98, AC25, AR20, Boc04, BLV20, CWLH95, CMX97, CP99, Che02, CHS17, Cum96, DX20, Dar03, DD94, DES21, FR10, dLL19, FKT20, GHV25, GHKL18, Gil17, Gna07, GJMY19, Gu17, Gu19, HBMY14, HKR21, HJH12, HR02, Hua06, HZHL12, HS16, JSSE97, Kir98, KN14, LD22, LN14, LC18, Li09, LZY98, LQW18, LLY12, MS99, Nai12, O'N18a, Pla12, PF23, RZ98, Ryn00, TW98, TSZ98, VC00, VNS18, WL12, WM21, XH13, Xu14, YZ13, ZGV22, ZW23b, ZW23c]. **integral-PDE** [AC25]. **Integrals** [Zoz15b, BT24, CLMR10, CKP13, DL98, DG13, GGAVGG+19, HWZ13, IRT23, MV99, Nit22, NUWZ17, TX19, VC00, WZL17, XHC15, Zoz15a]. **integrand** [ACH21]. **integrate** [FPR+12]. **integrated** [BPJ02]. **Integration** [HW00, AD24, DDP14, DL98, ESM13, HW12, KXL24, KR19, MO16, Nov00, NSW16, Pei05, SW04, XZ24, ZB12]. **integrator** [Li25]. **integrators** [CCDL20, CB25, HPP+19, KL16, KL19, OBS15,

WOBL17, WZtX16, ZZL+24, dLdDSM07]. **integro** [Gut21, JS21, JLZ08, QX21, WY17, ZV08]. **integro-differential** [Gut21, JS21, JLZ08, QX21]. **integrodifferential** [Qiu23]. **Interaction** [LRY23, LLL24, LL25]. **interactions** [APK20, SMK22]. **interface** [BK96, CZZ17, CKW10, DLZ16, FZ12, GZZ25, HH19b, KP95, SH23, WHS18, ZL16]. **interface-fitted** [ZL16]. **interfaces** [BK96, ZMQ23]. **Interior** [AL97, Lep23, LLHYN24, LWX19, NV10]. **interior-point** [LLHYN24]. **interpolant** [Dũn09, SW08]. **interpolants** [ABC14, ABY13, GMB97, MS07, Rem12, Spe17]. **Interpolating** [CT05, Han24a, AF96, BL99, CGM01, DL98, GRV22]. **Interpolation** [BLS02, CG06, DG13, GSS22, GY99, Noa02, Pet96, RGB13, dB07, AAPCC24, AEI25, AFM23, ABD08, AM14, AW24, BNR00, BCHS22, BS05, ByLl01, BGW21, BGW24, Buh06, Cal05, CDPS22, Car95, CG04, CS06, CM03, CDP25, DSW05, DS10, DMN25, DAP13, DM99, FM21, FaKS02, FGS13, Fas99a, FP99, FE15, FF05, Fra99, GS00, GRB12, GO05, GGW24, Hak00, HL16a, HL18, HQR23, HNN23, JKK+12, JLM19, KJ09, KF19, Kun09, Kva14, LL98, LW04, LM04, Le 00, LLY06, LL99, LR07, LZY98, LL07a, Luo99, LNW02, MS00, NSW98, NZ04, NSZ04, Osw04, PFMS05, RZ10, RS99, Rip99, RSA14, Sau95, SX95, Sch95, Sch11b, SS96, SS15, SRFH12, TBG18, Ven94, WS01, WL05, Xu00, Xu04b, dB00, dB06, vdMNS03, zCFX07]. **interpolation-based** [AW24, GGW24]. **interpolation-free** [DAP13]. **interpolation-regression** [DMN25]. **interpolative** [DM23, MB20, VM17]. **interpolators** [Led15]. **Interpolatory** [DHGA23, RGB18, Zhe06, CGR11, CGR13, DG16, DLUS17, Han24a, JS99, KKLY10, ZA10]. **intersecting** [LD07]. **intersection** [BX94]. **intersections** [HFH+07]. **Intertwining** [Cal05]. **interval** [ČF11, JL06, Jia09a, MS99, PST95, gTpM02]. **intervals** [Kür18, LMV11]. **Introduction** [AX98, Bar94, HAS05, Mar95]. **intrusive** [PJ20]. **invariance** [CL12]. **Invariant** [MT98, BDYY20, CHL17, FaKS02, GU02, HHS04, Mai06, MXZ08, NSW16, Sun10, Wat94, vdMNS03]. **invariants** [DGMES13]. **invasion** [PLRGVR22]. **Inverse** [LAG+24, BDMR10, BR22, CR99, CGM18, CH15, CHY10, HHSM24, HLC26, HO15, HXC10, IKS10, NT23, QC12, RSZ11, San15, TLG+22, WL12, YZB20, YY25, YZ25, Zho25]. **inverses** [AFM23, FMP22, KM19, NBL11, SU12]. **Inversion** [SS13, GPT17, Li03, LL12a, SZJ21]. **Inverted** [BKK17, BK24]. **invertible** [JAA22]. **Inverting** [BCO24]. **investigation** [JY22, KL22, PSW24]. **investigations** [BZ18]. **involving** [JS21, Sto96, Tom96, nCV13]. **ion** [YTL+20]. **Irrational** [yGS08]. **Irregular** [CC03, CLL08, FS07, Noe95, Pla95, Zha01, ZhXpZ16]. **isochronous** [HHX18a, HHX18b]. **isogeometric** [CCM26, EEK21, KMSV24, KV21, Rei24, ZP24, Zam26]. **isometry** [SL12]. **isomorphism** [ACDR24, DGMES13]. **isospectral** [PIZ01]. **isotropic** [BCE+09, PGM09, RAB+09, ZW19]. **issue** [Ano16, BOP+15, CHY10, XY12]. **Issues** [BPW95, Cai02]. **iterated** [BS97b, BS97a, BS00, CTZ02]. **iterates** [CCK20]. **Iteration** [An20b, BCM99, MSW+22, RSZ11]. **iterations** [MGSS22, WLB22]. **Iterative** [Cul96, ZZP23, ZCY20, AMU24, BBB+16, DS24, DF26, FP99, GO95, HHSM24, HPS19, IKS10, Li25, LNW02, WW12, WMY13, ZT14, ZY20, ZQS22, ZZD25, dH94, dCB07].

Jacobi [ByLl01, CR99, DHO16, LLD24,

TQ17, gYyG12]. **Jacobi-type** [DHO16]. **Jacobian** [ZD14]. **Jacobian-predictor** [ZD14]. **Janus** [KCCV23]. **John** [Ano93, How96, New96]. **joining** [NZ22]. **Joint** [CCMM21, FRT09, Möß10]. **Jordan** [CdGDN20]. **Julia** [Cho95]. **jump** [ZhXpZ16]. **junction** [WHS18]. **Justen** [HR13].

Kac [HT24, NSD24]. **Kaczmarz** [CG26, JWJ23, LZ26, MT26]. **Kaczmarz-type** [LZ26]. **Kalman** [CSZ26]. **Kantorovich** [BR07]. **Kármán** [DNS21, MN16, Mur08, SK24]. **KdV** [XY20]. **Keller** [GK24]. **Kelvin** [BNP14]. **Kernel** [HWS26, YB21, BMP+19, BJX09, DS10, DL04, EH24, FY13, FaKT22, Gna07, HH15, HS08, HT11, HG25, HJJV97, JSSE97, JGW15, KNP98, LS24, LLZ25, PS23, RY16, SMK22, SS16, SB22, Xu14, YZ13, vdMNS03]. **Kernel-based** [HWS26, DS10, HG25, SS16]. **kernel-independent** [SB22]. **kernel-split** [FaKT22, HH15]. **kernels** [AL21, AEI25, BRS13, BRSV15, CMP21, Cop98, DX20, FM21, FJ99, FY13, GW17, Gut21, HS13, KS20, LMWX13, LS05, Opf06, Qiu23, RQS26, SW06, Sch09, SHTS14, ZJ06]. **Kerr** [CGHK23]. **Kerr-type** [CGHK23]. **kind** [Bad19, CMX97, CP99, CHS17, DM19b, HR02, HZHL12, HS16, LL04, Nai12, O'N18a, Pla12, TW98]. **Kinematic** [SR02]. **Kirchhoff** [MM20]. **Klein** [GW14, LZ22, Li25, WZJ18]. **Knopoff** [XKY15]. **Knot** [BGM93, KLNS95, KL04, LY07, Wal95]. **knots** [Plo95, Str95]. **Kohn** [CGH+13, GP14]. **Kolmogorov** [AGU25, DM22, UG19]. **Kono** [BS24]. **Korobov** [MZ22]. **Korteweg** [dLL19]. **Kozakiewicz** [BS23]. **Krylov** [BR23, DFS+24, ZVW95]. **KSR** [BF94]. **KSR-1** [BF94]. **Kumaraswamy** [And20]. **Kutta** [CSWP99, SLT21, BP93, Boc23, BS97b, BS97a, BS00, CHMR97, CLM03, CMR07, CLMR10, CLMR15, Hal95, JMO00, Liu99, Mui99, QYY26, vdHdS97, vdHS00]. **Kutta-collocation** [Liu99]. **Kuwabara** [BS24].

L1 [LZlL26, MSXZ13, TTP25]. **L1-SAV** [LZlL26]. **L1/TV** [MSXZ13]. **labels** [ALADH+19]. **lacunary** [Ven94]. **lag** [BP93]. **lagging** [MG19]. **Lagrange** [Cal05, CG04, Hu07, Kun95, LL98, NZ04, NSZ04, WLW16]. **Lagrangian** [BBF+24, TH24, XWL13, ZLH+24]. **Laguerre** [DGS18, yGjW10, LWL17, PGM09, PGB10, lWyG06, lXyG02]. **Lambert** [CGH+96, IB17]. **laminar** [ZCL20]. **Lanczos** [FW25]. **Landau** [GS18, HX02, LL07b, ZHzSR21]. **Laplace** [BBdD21, BW15, HS13, KP95, KN14, LM14, LL12a, O'N18a, PTC12, Sch09, WZ10]. **Laplacian** [BJMR24, CDM+24, Jon17, KM19, LN19, LBCZ18, RF19, SU12, TDG16, ZW23b, ZW23c]. **Laplacians** [CW16]. **Large** [HSSS18, AMM20, BF11, BW20, BBT25, FQH25, HHSM24, HLC26, JWJ23, KESR22, Kür18, LY21, LZ26, MT26, SI15, Sch23, SFDE15, SB22, ZPY15, ZY20]. **large-scale** [AMM20, BF11, BW20, BBT25, HHSM24, HLC26, JWJ23, KESR22, LZ26]. **laser** [GN13, NKL+19]. **latent** [FFMZ24]. **Latin** [FÁG19]. **lattice** [FGO14, GH99, NSW16]. **Lattices** [CC03, CG06, GIKV21]. **Laurent** [GMRS97, Lev99, MS04]. **Lauricella** [BW15, TZ05]. **law** [CFC23, JS21, KP18, SRC25]. **laws** [DHH25, KK05, MV01, XKY15, Yan19, ZQ13]. **Lax** [GLS15]. **layer** [BST24, CLM96b, FaKT22, GJW20, IMS99, NT23, RNT26, ST23, SB22, WG19, ZCL20, aKT17]. **layer-adapted** [RNT26]. **layered** [Cai02, Wat96]. **layers** [Kno09, LZZ09, ZL17]. **leapfrog** [BS24]. **leapfrog-Verlet** [BS24]. **Learn** [SGK26]. **Learning** [CMP21, GS13, MNPR06, XP10, YZ08,

YWC12, APPP24, AW26, BCO24, BFFM24, BKR25, ESTW19, GZ13, GYZ17, GS19b, GS25b, KKL+22, KO26, Kni24, LMWX13, LS05, PJ20, RZ10, SW06, SGK26, YZ23]. **learning-based** [KKL+22]. **Least** [BNPP20, FHN94, JF02, WK93, ALS24, CHY11, Dav23, HP24, HLUT26, LK05, Pla00, Sto96, SW10, Tom96, ZPR03]. **Least-Squares** [BNPP20, JF02, HLUT26, LK05, Sto96]. **Lebesgue** [Las16]. **Leer** [CT17b, TTC21]. **Leer-type** [CT17b, TTC21]. **Leffler** [GP13]. **Left** [SU12, ZN18]. **Left-inverses** [SU12]. **leg** [Wan19]. **Legendre** [yGqW09, yGjW10, GW21, HKR04, KSWX24, LWW21, gTpM02, XLW26, lXyG02]. **Leja** [BDN26]. **lemma** [HHS04]. **Letnikov** [CC22]. **level** [BDFS19, Bre95, DMMS11, HL06, HT12, YM24, ZH25]. **level-set** [BDFS19]. **Levenberg** [AAFV19]. **Lévy** [DX20, WSL+19, ZZCC24]. **Lévy-driven** [DX20]. **Lie** [AP25, Kni24, ZN18]. **life** [FRT09, AVGGEG+19]. **Lift** [SGK26]. **like** [BCHS22, GRV22, ZT14]. **likelihood** [BL09, ZP19]. **limit** [Li25]. **Limitations** [CLM96b, KKP24]. **Limited** [BR23, Kür18, LLD24, XLW26, YX24b]. **limiting** [EBS22]. **line** [Dam07, GP13, LWL17, MV99, NUWZ17, VC00, lWyG06, gYyG12]. **Linear** [GPS10, GZW18, HL96, HJYZ23, TLG+22, Zen19, AH96, ABY13, AGU25, Bai99, BN19, BN21, BCV23, BKN11, BB26, BCS19, BDYY20, BP11, BD21a, BD21b, BDM20, BKM+21, Cas07, CC24, CJ07, CD15, CFZ21, CG26, CL18, CDP25, DM19b, DNS21, DFS+24, DF26, DL23, Dũn09, FL23, GLX23, GPAF18, GJU22, GKS21, HHSM24, Han10, HKW25, HZZZ24, Ito96, JWJ23, KA97, KL17, KvD01, LP21, LLS03, LY07, LLR24, LW26, LMV11, LLHYN24, LY08, LZ26, LSZ26, MC08, MPS96, MPS97, MO16, MV01, MT26, MS16, NT23, PGM09, PP97, Sch15, SXWG22, TZL16, UG19, VK96, WMB13, WZJ18, WW19, WMW21, Wil98, YZ25, ZJZ21, dH94, dCB07, vdHdS97, GJU22]. **linear-constant** [LY08]. **linear-phase** [Han10]. **Linear/Ridge** [GJU22]. **linearization** [BR22, HX02]. **linearized** [FL24, GS18, HWZ22, LGN22, YS23, ZYB18]. **linearizing** [XWL13]. **Linearly** [FQH25, SW06, CTZ02, DS00, JSW20]. **lines** [BEG17, HV19b, Wal25]. **link** [Len94]. **Liouville** [GM17, KS17, LS19, Ram18]. **Lippmann** [Che02, GM22]. **Lipschitz** [GH16, LWZ19, Wan23a, Wan23b, ZL24]. **liquid** [HY14, SJJY21, Zhu15, aZWL23]. **Live** [BCV23]. **Ljusternik** [Yao19]. **LLT** [zCpST09]. **load** [BCV23]. **loads** [FE15, GM14]. **Local** [AAFV19, ANSZ17, DHWZ18, FGS16, HZZ20, KK05, Mat09, Sun10, XZ01, YX24b, AG25, ACK19a, ACK19b, ARPR01, AZW15, ABC14, APV14, AS05, BCE+09, CFC23, DL98, DZ04, GY00, Han12, HHS04, HT12, HSV09, HY18, HLL25, Kac18, KK20, LSW17, Len94, LFL22, LWY06, MSZ06, MRS18, MJM23, MN24, Spe17, SZ09, ZBT+22]. **Localization** [CP03, ACDR24, Lem09, MSST14]. **localizations** [Kos15]. **Localized** [Grö03, Sun14, DHH25, PS23, Rau05, RST+14]. **Locally** [DS00, AGS24, CTZ02, GH16, KC16, ZGV22, ZRW26]. **locations** [DSW05]. **locking** [LLS03]. **locking-free** [LLS03]. **Loewner** [GZA20, Pra23]. **logarithmic** [JSSE97, KNP98]. **logarithmic-kernel** [JSSE97]. **logic** [Tal19]. **Long** [WW19, APK20, LL07b, Xu14]. **long-range** [APK20]. **Long-time** [WW19, LL07b]. **loop** [GQL24, LGQ24]. **Lorentz** [DKB99]. **loss** [GYZ17, PRS24]. **Lotka** [SC08]. **Low** [BD18, CB25, AAPCC24, AL21, AL97, AGS24, BG26, BGT20, BH15, CLMR15, DDLL23, GS20, GKS21, HKW25, HZZZ24, KKK24, KvL95, LHY08, RW26, SMK22, XLL24, ZLH+24]. **low-dimensional** [HKW25]. **low-frequency** [LHY08].

low-order [HZZZ24]. **Low-rank** [CB25, AL21, BG26, BGT20, DDLL23, GS20, GKS21, KKK24, RW26, SMK22, XLL24, ZLH+24]. **low-redundancy** [BH15]. **low-subsonic** [KvL95]. **lower** [Mai05]. **lowest** [SPS18, ZT15]. **lumped** [BGG24]. **Lyapunov** [LMV11, Pen98].

machine [BCO24, ESTW19, KKL+22, RZ10, SW06, SGK26]. **Machines** [EPP00, CX06]. **Macro** [KKK24, AS02, ASS10, LL04]. **macro-element** [LL04]. **macro-elements** [AS02, ASS10]. **Macro-micro** [KKK24]. **macroscopic** [BCO24, WBGG22]. **magic** [ZC24]. **magnetic** [HPP+19, HW19a, LW23, XPY26]. **magnetic-coupled** [XPY26]. **magnetisation** [APK18]. **magnetization** [AMPT22]. **magnetohydrodynamic** [DMS22, RHZ17]. **magnetohydrodynamics** [GDMS21]. **magnetostatic** [CJ24]. **Magnus** [ALDHHZ+19]. **MALDI** [KMO+14]. **manifold** [BZA24a, BZA24b, CMSS23, HQR23, Mai10]. **manifold-valued** [CMSS23]. **manifolds** [Dav23, GH16, Hol01, HW19b, LR07, Mai06, Moo17, Noa14, YZ08, ZS21]. **Manning** [Don20]. **many** [MNW04]. **map** [Far10, LLC26, Rei24, San15, WL12]. **mapping** [CWLH95, EGST13, LLZ25, TB16]. **mappings** [FK10, FM25, NRR+22]. **maps** [BNPP20, FPT06, GMBS23, HMS19, HR17]. **marching** [Awa15, DD94, DHSW19]. **Mariano** [CP07a]. **market** [ALZ02]. **Markov** [DMMS11, PM19, ZXC12]. **Marquardt** [AAFV19]. **Maruyama** [ZL24]. **masked** [LL21]. **Masks** [Jia03, CZ19, De 06, Gon93, Han10, LP10, Zhe06]. **Mass** [LR19, MWZZ23, LLLH23, WBY24]. **Mass-** [MWZZ23]. **massive** [CC24]. **matched** [LZZ09]. **Matching** [QWS24, Sto25]. **Material** [XB05]. **materials** [APK20, BS24, HXC10]. **Matérn** [BRS13]. **Math.** [Fus08a, Hem96]. **Mathematica** [CKP13]. **Mathematical** [RMCCG+19, SEE96, CLM96a, SX09]. **mathematics** [BOP+15, CC24, Ano16, Ano03c, Ano04d, Ano04e, Ano04f, Ano05a, Ano05b]. **Matrices** [BMSZ01, Chi03, AD08, AH96, BCC22, BGM93, CR99, CG19, Dai16, EGL13, FMP22, FMPS13, GP95, HX21, Kni24, LH13, MX24, MPR22, Möß10, Peñ11, SO20, Tom96, ZP24, ZR24]. **Matrix** [Low05, AD24, AG25, ALS24, AC00, BD93, BCV23, BI11, BR07, CWY25, CMX07, Cop98, DY10, DES21, ESM13, EGST13, ER21, FKS05, FMP22, FE15, Fus08a, Fus08b, GM17, GK19, GS19a, GKS21, Han06, HHS04, JL97, KM19, KA97, fLLfDX21, MB20, Miy19, NT23, VM17, WLW16, YY25, dVR19, DPS93]. **Matrix-valued** [Low05, Fus08a, Fus08b, GKS21, HHS04]. **Matzinger** [DKB99]. **Max** [MP23]. **MAXBET** [MSW+22]. **Maximal** [ALS24, BS05]. **maximizing** [Bün11]. **Maximum** [CK11, CHSS03, GWC24, JlLZ20, KL17, ZP19, ZZL+24]. **maximum-norm** [KL17]. **Maxwell** [JL19, AB02, CGHK23, FMP22, GHV25, HKR21, HY18, HW19a, KCW17, LCC19, LHY08, LWX19, QL25, VW02, Xie08, YX24a, YH25]. **Mean** [Wan23a, Wan23b, BD21a, BD21b, FK10, FM25, RGB13]. **Mean-square** [Wan23a, Wan23b, BD21a, BD21b]. **means** [BI11, Xu04a]. **Measurable** [GH03]. **measure** [CMP07a]. **measurement** [FZ12]. **measurements** [JR23, LL21, Zwi94]. **measures** [GU02, MSST14, MRS03, MT98]. **measuring** [DL04]. **mechanical** [HZHL12, TBG18]. **media** [BSSM22, Cai02, CGHK23, DGMM16, GHV25, HW19a, SM24, TS05]. **medial** [CCH+08]. **median** [Osw04].

median-interpolation [Osw04]. **medians** [GY99]. **melting** [PCM+96]. **memoriam** [Ano93]. **memory** [BR23, DHSW19, IP15, Jan98, MS22, ZBT+22]. **menus** [RLGGAV19]. **Merrien** [Sab04]. **mesh** [BS05, DHSW19, DM99, Kac18, KF19, LLS96, LL98, MS18, MSS02, MS19, NSS04, RNT26, SBMS22, Wan19, ZL16]. **mesh-free** [KF19]. **meshes** [AN20a, AAQ15, ANN22, CDM+24, CH22a, DAN25, DSW20, DY01, FPT06, GH06, HSY16, KP98, Kun01, LFL22, Loh23, LL10, LL12b, Mat09, Pla95, PW08, PGB10, QX21, TMH21, WWH21, WQP23, ZWDD16, ZD18, ZL17, ZYC19, ZW23a, ZC14, ZD16, ZW20, Zho26]. **Meshfree** [TS05, LX26b, VR26]. **meshless** [AS05, Dav23, ECS18, FS98, HS08, HS13, KH05, Sch09, Sch15, ZB12]. **metamaterial** [LCC19]. **Metamorphosis** [RY16]. **method** [AAPCC24, AAFV19, AF96, AU20, AHL25, ARPR01, AC05, An20b, AB11, Ant18, APV14, ACPV21, AL97, AK25, ANN22, AC00, ACH10, AHC11, AS05, Bad19, BQRB13, BBB21, BH23, BV24, BZ18, BBdD21, BFMNP24, BK16, Boc04, BCMR24, BK24, BK96, BBT25, BS24, BKR25, BS97a, BMLC26, CJX17, CEL15, CDS02, sCLC13, CCM26, CMX97, CLZ02, CLL08, CZS16, CFZ21, CGHK23, CDM+24, CG26, CT17a, CKW10, CL02, CN96, CHY11, CCE+12, CSZ26, DX20, DHK98, DAN25, DRV26, Dav23, DHSW19, DMS22, DLS14, DHWZ18, DNS21, DF26, DL23, DDLL23, DTZ24, EBS22, EX20, ECS18, EHV17, FK98, FGO14, FW25, FS25, FYZ25, FKT20, FaKT22, FH18, GM17, GK19, Gia20, GG16, Gna07, Gom95, GM24, Gu17, Gu19, Gu20, GS20, GQ22, GH06, yGW07, yGjW10, GW14, GW21]. **method** [GZZ25, Gut21, GPG15, Han05, HKRS14, HL06, HH16, HLC26, HR13, HO17, HMQ22, HK21, HAS05, HX17, Hu07, HXC10, HY14, HY18, HWZ23, HS16, HW19a, HL20, HS20, IUV17, IJH26, Jan98, JM03, JS05, JZ24, JWJ23, JK08, KNP98, KY01, KS18, KH05, KHM16, Kum23, LN14, LLS03, LC18, LMRV23a, LMRV23b, Li05b, Li08a, Li08b, LC09, LG13, LC13, LZ20a, LGC+20, LS20, fLLfDX21, LFL22, LZL23, LLR24, LLY26, LZ21, LK26, LZY98, LLL24, LL25, LQW18, LLHYN24, LLC16, LWL17, LJ18, LC19, LZCW21, LGN22, LLZ25, LR25, LZ26, LBCZ18, MR15, MS18, MR96, MV99, MST05, MSL21, MM20, MP18, MG19, MC23, MT26, MN24, MNN25, MY17, MS98, Mur08, NH26, NKL+19, OP11, PM17, PO24, PPH+21, Pla12, PDB24, QL25, QX21, RNT26, Ryn00, SL15, SXYY06, SK24, SH23, SSH25, SBMS22, SW98, SvVW22]. **method** [Sto25, SYCJ18, Svá19, TLG+22, Tau19, TZL16, VR26, VNS18, lWyG06, WY16, WY17, WHS18, WWH21, WMW21, Wan22, WLB22, WZ10, WY20, WLL26b, WLW23, Wie15, WLPV15, WZtX16, Xie08, lXyG02, Xu14, XYZ21, XLL24, YB21, YF23, YS23, YX24a, YL24a, Yao16, YZ21, YZLL24, Yem22, gYyG12, YL24b, YH25, YZ25, YXX22, ZT14, ZP06, ZL24, Zha14, ZPY15, ZT15, ZYC19, ZP19, ZY20, ZZC20, ZJZ21, ZCB21, ZW23a, ZXL24, ZZCC24, ZH25, ZS24a, ZRW26, ZW12, ZL16, ZL21, ZZD25, ZhXpZ16, lZmCRX03, ZQ13, Zhu15, ZG16, ZLH+24, dCB07, HORU19]. **Methods** [Ano01b, AN20a, ASU17, APPP24, AMS22, ABI15, AK15, Awa15, BP93, BN19, BN21, BCM99, BSK19, BDFS19, BBB+16, BDMR10, BLV20, BEPS96, BJX09, BR23, BD21a, BD21b, BKM+21, BS97b, Bur97, BS00, But97, CDP03, CLM03, CLMR10, CLMR15, CZZ17, CMX02, CWX06, CWX12, CS19, CLCH19, CL16, CEHK18, CJ24, ÇY23, CCP22, CSWP99, CHP19, CH22a, CFC23, CDP25, Cul96, Cum96, DDP14, DFR07, DPS93, DMMS11, DHH25, DS01, DRS08, DLZ16, DFS+24, DT12, EOR18, EJ97, FLM96, Fas99b, FYL08, FR10, FKT+19, dLL19, FS98, FZLZ21, FF26, GQL24, GMM09, GO95, GWC24, yGqW09, HHSM24, HD24, HBMY14, Hau97, HQHV20, HS08,

HLUT26, HCYY20, HYHH21, HR02, Hua06, HZHL12, HJYZ23, HZZZ24, HLL25, IKS10, JMO00, JSSE97, JlLZ20, JLZ08, JY22, Khl18, KXZ04, KLS19, KSWX24, KN14]. **methods** [KNQ16, LW04, LSY24, Lee03, Lee16, LC20, LC21, Lep23, Li05a, LCC19, LW23, LS19, LK05, LMV11, Liu99, LSZ26, LWX19, LLY12, LL10, LL12b, LNW02, MWZZ23, MH22, MN16, MNC16, Nai12, NSD24, Nie98, PR26, Par22, PIZ01, PP23, PS98, QYY26, Ram95, RWT13, RZ98, Sch15, SWH20, SXZ06, SX09, Sid17, SSH25, SLT21, SXWG22, SDZ26, gTpM02, TX19, TBD94, TGA96, VC00, Wan12, WL12, WMY13, WMB13, WHTZ18, WG19, WW19, Wan19, Wan23a, Wan23b, WlL26a, Wie15, Wil98, XB05, XZ03, XY12, YKZ19, YXM23, Zam26, ZVW95, Zen19, ZZP23, ZB12, ZJ23, ZLPX23, ZD16, ZCY20, ZWZ19, vdH93, vdHdS97, vdHv97, vdHS00]. **metric** [AAFV19, CZS16, LD07]. **MFS** [FKS05]. **MHD** [ATS19, CZ20, DLM26, DHWZ18, LZ20b, LHH23, ZYB18, ZXL24]. **micro** [KKK24]. **Microlocal** [GL17]. **micromagnetic** [BK24]. **micromagnetics** [AC25]. **midpoint** [SC08]. **Milstein** [Wan23a, Wan23b]. **Mindlin** [AL97, Ye00]. **Mini** [KL00]. **Minimal** [Sid17, Xu98, BN21, CsL18, FM18, PGM09, Pra23, Wen95]. **minimax** [Yao16, Yao19, Zwi94]. **Minimization** [MR10, AHL25, BR23, CM96, zCpST09, CZS16, DT12, Fli18, FRT09, GN08, HH16, HHX18a, HHX18b, HWZ23, LWZ19, MHR21, MNPR06, TY18, WFL02, YKZ19]. **minimizations** [ZYY16]. **minimizers** [MRS18]. **Minimizing** [Bün11, Far10, FGS13, FGG$^+$17, KF19]. **Minimum** [LK26, Noa14, ABC14]. **Minkowski** [FMR00, FH05, FGMS19, KJ09]. **MIRKs** [Ben97]. **miscible** [HCH20]. **misclassification** [CM96]. **missing** [CCSS09, MHR21, Sch11a]. **Mittag** [GP13]. **Mittag-Leffler** [GP13]. **Mixed** [AAQ15, FF26, Li05a, Tim21, lXyG02, ACPV21, AK15, Awa13, BBB21, BBB22, CHM18, DGMM16, DLZ16, DL23, FF95, GS18, GQL24, GAN20, GMM09, Gil17, HCYY20, HZZZ24, JLZ08, Lee16, LLR24, LMT01, MM20, MS16, Per22, RNT26, SPS18, SY19, TD21, TTP25, Xie08, XZ25, YDF97]. **mixture** [CDP25, SRC25, SJJY21]. **mixtures** [GZW18]. **MLPG** [AS05]. **MMDs** [RQS26]. **mobile** [LZCW21]. **mobile/immobile** [LZCW21]. **mobility** [BBT25]. **modal** [RTV21]. **mode** [BHM18, CHRX06, HQR23, HW19a, LQW18]. **Model** [BOP$^+$15, BFH$^+$18, SS15, ALDHHZ$^+$19, AV15, AHK$^+$19, AK19, AHS20, And20, AL97, AW24, BNP14, BN19, BN21, BGT20, BH25, BB26, BGH15, BCS19, BGT26, BS24, BKR25, CHM18, CBLZ26, zCpST09, CZ20, CS18, DAN25, DHGA23, FE15, FMH26, GHV25, GLS15, GK24, GZA20, GDB24, GHLU19, GGRBRG21, HB24, HBH24, HF19, HY14, HX02, HL20, HLL25, JZ10, KU18, KORS17, Kim06, KKK24, KCW17, Kür18, LAG$^+$24, LGC$^+$20, LSY22, LYZ26, LZCW21, LZlL26, LBI25, MSXZ13, NP24, Ock96, PWL20, PLRGVR22, RH15, RGB18, SI15, SM18, SDZ26, Świ19, Tha19, VMR26, WlL26a, XKY15, XPY26, Yan03, Yan19, ZPR03, ZY20, ZPY25, Zhe23, Zhu19, ZC24]. **Modeling** [Ano02c, IL16, ABMM19, BZ18, BWX97, BFFM24, DAP13, FFMZ24, GGW24, GH18, Han24b, HQR23, KKL$^+$22, KMMI19, LR19, PJ20, TS05, ZPR03]. **Modelling** [APK20, APK18, KRP19, SEE96]. **models** [AGN23, ARAK09, AHPP24, AR23, AW26, BGG24, BCO24, CLM96a, CGH$^+$13, CW09, DM19a, DNS21, EX20, FKT$^+$19, GZW18, KO26, MO19, PGB15, RWT13, Wat96, WBGG22, YKZ19, ZW19, ZST19, ZLH$^+$24]. **modes** [BPJ02]. **modification** [FGS16, ZP19]. **Modified** [KL00, WMY13, Bai99, dLL19, HW18,

Li08b, LMYL19, RJ00, WLW16]. **modular** [TL18]. **modulation** [GKKS23]. **moduli** [NRR+22]. **modulo** [AGS24]. **molecular** [WlL26a]. **Mollification** [BB07]. **mollifiers** [CGW13]. **moment** [ACDR24, BR07, Füh16, KKK24, TQ17]. **moment-based** [TQ17]. **moments** [CHR00, CHSS03, CaL06, CCH+15, Han10, ZTHW22]. **momentum** [WW19]. **Monge** [Awa15, CFZ21]. **mono** [Mui99]. **mono-implicit** [Mui99]. **monomial** [CWW24]. **monomials** [dB07]. **Monotone** [Kva14, ABY13, BC19, BMLC26, yGmW98, KL04, KL07, NH26, TQ24, nCV13, Wan12]. **monotonic** [Xu14]. **monotonicity** [FP98, FBCR13]. **monotonicity-preserving** [FBCR13]. **Monte** [CDP25, ESTW19, KR19, PM19, Zhe23]. **Moreau** [Bad19]. **Moreau-regularized** [Bad19]. **MoRePaS** [BOP+15]. **Morley** [HSY16, HMM21, SK24, WHTZ18, YLBL12]. **morphing** [LD07]. **Morse** [KK26]. **mortar** [FH18]. **mortaring** [LRS12]. **motion** [BNP14, FKT+19, WSL+19]. **motions** [FGS13]. **motivated** [GPS21, Wie97]. **moving** [BMSR+16, FE15, GRdSA19, GJW20, HP24, Ock96, TZ03, Tau19]. **MR0019410** [CN96]. **MR1338896** [Hem96]. **MR2438345** [Fus08a]. **MR2783300** [Dũn12]. **MR3428571** [Ano16]. **MR3428572** [Ano16]. **MR3428573** [Ano16]. **MR3428574** [Ano16]. **MR3428575** [Ano16]. **MR3428576** [Ano16]. **MR3428577** [Ano16]. **MR3428578** [Ano16]. **MR3428579** [Ano16]. **MR3428580** [Ano16]. **MRA** [PŠWX03]. **Multi** [HL06, KO26, LSXZ15, RZ98, BlH23, BH25, BR15, CMR07, CC22, CaL06, CHS17, DHSW19, FZLZ21, GW21, HH16, HD20, HCF+21, HJYZ23, KV21, KCW17, LY07, LZ20a, LMWX13, MSW+22, Onc14, PGB15, Qiu23, gTpM02, ZBT+22, ZTHW22, ZLH+24, dVR19]. **multi-asset** [PGB15]. **multi-block** [HH16]. **multi-dimensional** [BR15, FZLZ21, LZ20a, Onc14, ZLH+24]. **Multi-fidelity** [KO26]. **multi-frame** [BlH23]. **multi-frequency** [KCW17]. **multi-GPU** [ZBT+22]. **multi-image** [BH25]. **multi-interval** [gTpM02]. **multi-knot** [LY07]. **Multi-level** [HL06]. **multi-mesh** [DHSW19]. **multi-order** [GW21]. **Multi-parameter** [RZ98]. **multi-patch** [KV21]. **multi-revolution** [CMR07]. **multi-space** [HD20]. **Multi-step** [LSXZ15, HJYZ23]. **multi-subdomain** [CHS17]. **multi-task** [LMWX13]. **multi-term** [CC22, Qiu23]. **multi-variate** [HCF+21, ZTHW22]. **multi-view** [MSW+22]. **multi-wavelet** [dVR19]. **multi-wavelets** [CaL06]. **multibody** [FE15]. **multicategory** [CX06]. **multidelay** [ZV08]. **multidelay-integro-differential** [ZV08]. **multidimensional** [BRR18]. **Multidomain** [BK16]. **multifidelity** [PM19]. **multifilter** [Jia00]. **multiframelets** [LYY13]. **Multifrequency** [BR22]. **Multigrid** [BH02, DKMT20, Bad19, BA15, BEPS96, GPG15, Hem95, Hem96, KXZ04, KvL95, SXYY06, ZVW95]. **multiharmonic** [LZ21]. **multilayer** [WFL02]. **multilayered** [Mha93]. **Multilevel** [BMK15, CWX06, HHKS24, KP95, Kun95, XH13, XYZ21, Zhe23, AHPP24, CHM18, DMMS11, Fas99b, GJS14, GO95, HX02, Nie98, YXX22]. **multimedia** [Ren09]. **Multiobjective** [IUV17]. **Multiparameter** [BJX09]. **multiphase** [ZGV22]. **Multiple** [HJH12, CDTV99, GPT17, GIKV21, MXO13, Plo95, TY18, Yao16]. **multiple-block** [TY18]. **multiplication** [AC00, BD93, CWY25, Khl18]. **multiplicative** [GQL24, LZ25, LSZ26, QZX23]. **multiplier** [Hu07, WLW16]. **multipliers** [JAA22, Kun95, SYCJ18, YF23]. **multiply**

[HL16b, San15]. **multiply-connected** [HL16b]. **multipoint** [DLZ16]. **multipole** [GG16, WLB22, YB21]. **multiquadratic** [FHN94]. **Multiquadrics** [BLS02, Buh06, HL16a, HL18]. **multiresolution** [ADL11, AL13, ABD08, CGRS15, GDMS21, Jia11, KKL03, RAB+09]. **Multiscale** [CL16, CLR19, Opf06, ACPV21, APK18, APK20, BJX09, GKM+20, GL17, Hua06, JK08, KORS17, LW14, LSW17, Li03, LLY12, MR15, MTH21, SBZR19, TH19, Var96]. **multisplitting** [WMY13]. **Multistep** [FJ99, BD21a, BD21b, BS97b, BS97a, BS00, QYY26, Wil98]. **multitasking** [BMRS20]. **Multivariate** [ACH21, BG26, BL99, Car95, CsL18, LP04, MS04, SRFH12, ALRÁY22, BC99, BGW24, BCZ05, Cal05, CHR00, CMX07, CDTV99, DS13, FH20, Lai06, Le 00, Li04, NSW16, Sau95, SX95, Sau06, SS96, SW08, SU22, WZ20a, dB00, Sch04]. **Multiwavelet** [HM03, PS98, LYY13, CMX97]. **multiwavelets** [CMSS23, MS97]. **multiwindow** [JJK13]. **Mumford** [KPY09].

Nash [dCFCF20]. **nat** [Sil99]. **native** [Fus08a, Fus08b]. **natural** [Dou94, SH23]. **naturality** [KL24, SBEH24]. **nature** [LO08]. **Navier** [An20b, Ang00, APV14, CHM18, CR23, CS19, CGS93, DFOS23, DM19a, DNS21, GAN20, GHKL18, HD24, HL06, HQR23, JY22, JK08, LC13, LGC+20, LC19, MNN25, PCM+96, SDZ26, WWH21, ZVW95, ZCL20, ZH25, ZQS22, ZZD25, dFGAJN18]. **navigation** [IJH26]. **Near** [BDKY02, DSW05, AW24, GIKV21, MM00, Nit22, SFDE15, ST23]. **near-field-to-far-field** [SFDE15]. **Near-optimal** [DSW05, AW24, GIKV21]. **near-singular** [Nit22]. **nearly** [BT24, DL23]. **necessary** [MNPR06]. **Nédélec** [Xie08]. **negative** [GS20, HX21]. **nematic** [SJJY21, aZWL23]. **Nernst** [HMX22, YTL+20, YL24a]. **Nested** [AW26, ZT14, KP98, Li25]. **nets** [Sto96]. **network** [CD15, FMH26, GHJZ23, KKP24, Len96, Mha93, SM18, Świ19, WKH25, YH25]. **network-POD** [WKH25]. **Networks** [EPP00, Noa96, BE00, CS18, CLM96b, DJZ25, DM22, EBS22, GS22, KK26, Len94, MM00, MZ22, MSL21, MNW99, MMNM23, Nee96, PRS24, Wat96, Zho25]. **Neumann** [AHC11, BST24, KP18, LST11, LC21, SM24, WL12, ZB12]. **Neural** [HSZ24, SM18, AM24, BE00, CLM96b, DJZ25, DM22, FMH26, GHJZ23, KKP24, KK26, Len94, Len96, MM00, MZ22, Mha93, MMNM23, Nee96, PRS24, RW26, Świ19, Wat96, WKH25, YH25, Zho25]. **neutral** [Wan19, ZV08]. **neutron** [YXM23]. **Newton** [CG15, CCK20, EHV17, HY14, HWZ23, fLLfDX21, YXX22]. **Newton-penalty** [HY14]. **Newtonian** [DGMM16, KRP19, Li10b]. **NFFT** [PT21]. **Nicolson** [CLCH19, HCYY20, SXWG22, aZWL23]. **Nirenberg** [GP14]. **Nitsche** [LRS12]. **Nitsche-mortaring** [LRS12]. **no** [Fus08a, Hem96]. **node** [CDPS22, Gom95]. **noise** [GQL24, LO08, LZ25, LSZ26, QZX23, WC25]. **noisy** [BE00, MHR21, NG99, RH12]. **Non** [Dũn09, EEK21, LW03, YZB20, ZY20, AG25, AK01, AS24, ABY13, APK18, Atr12, ANSZ17, BBB21, BSSM22, Bru23, CJ07, CWW24, CMZ26, CGR11, DMBH24, DLUS17, DY01, FBDH19, Fra99, GJMY19, GS20, HH19a, HLL25, JKLY13, JM00, Khl18, Lev99, LHY08, LWZ19, LP14, MO16, MG19, MNN25, PSNP11, PJ20, Ryd19, SO20, TYY11, TMH21, TTP25, Wan12, WMY13, WMB13, Wan23a, Wan23b, XP10, YZ24, ZBT+22, ZMQ23, ZWDD16, ZL24, ZB12, ZJZ21, ZD16, ZS24b]. **non-adjacent** [Khl18]. **non-autonomous** [MO16].

non-canonical [AS24]. **non-commensurate** [Ryd19]. **Non-conforming** [YZB20, ZMQ23]. **non-constant** [ZB12]. **non-convex** [FBDH19]. **non-equilibrium** [BSSM22, HH19a]. **non-extensive** [SO20]. **non-greedy** [TYY11]. **non-Hermitian** [WMY13, WMB13]. **non-homogeneous** [AK01, DMBH24, GJMY19, ZS24b]. **non-identical** [XP10]. **non-intrusive** [PJ20]. **Non-iterative** [ZY20]. **Non-linear** [Dũn09, ABY13, CJ07, ZJZ21]. **non-Lipschitz** [LWZ19, Wan23a, Wan23b, ZL24]. **non-local** [AG25, HLL25, ZBT+22]. **non-monomial** [CWW24]. **non-monotone** [Wan12]. **non-negative** [GS20]. **non-null** [BBB21]. **non-oscillatory** [DLUS17]. **non-overlapping** [LHY08, PSNP11]. **non-periodic** [LP14]. **non-polynomial** [Fra99]. **non-rectangular** [ZWDD16]. **non-self** [YZ24]. **non-selfadjoint** [JM00]. **non-singular** [MNN25]. **non-stationary** [Bru23, CGR11, JKLY13]. **non-steady** [MG19]. **Non-symmetric** [EEK21, CMZ26]. **Non-Uniform** [LW03, Atr12, ANSZ17, DY01, Lev99, TMH21, TTP25, ZD16]. **non-zero** [APK18]. **Nonconforming** [LR25, LLS03, LY08, LC19, MC08, SSH25, XZ25, ZZC20]. **nonconjugate** [AR23]. **nonconservative** [Tha19]. **nonconvex** [SL12]. **noncovex** [ZW19]. **nonequispaced** [Nes16, Ste98]. **nonhomogeneous** [AC05, AMS22, HY18, Li04]. **nonintrusive** [CEL15]. **Noniterative** [DHH25]. **Nonlinear** [AL13, DLU19, Noa98, ON18b, AGN23, AKS23, ADL11, AZW15, BQRB13, BMP+19, BFFM24, BMLC26, CLC16, CBLZ26, CLCH19, CGHK23, DKLT93, EH24, FYZ25, GH99, GRdSA19, Gu20, GMS12, GQ22, yGmW98, GW14, Gut21, HKW25, HCYY20, HL21, JSW20, KU18, KNV01, LRY23, LT98, LX26b, LSZ26, MWZZ23, MN15, MG19, Osw04, QWXZ10, SM18, SWH20, SPS18, SGK26, SY19, Sun14, TL18, WZ19, WY20, XZ01, XZ03, YTL+20, YS23, Yan19, YZLL24, ZPR03, ZHzSR21, ZCB21, ZZCC24, ZCY20, ZC24]. **Nonlinearity** [Ito96, MG19]. **Nonlocal** [ACK19b, CCP22, AN20a, BH25, CCM26, FLM96, FQH25, SPS18, SZJ21, TDG16, ACK19a]. **nonmatching** [PS05]. **nonnegative** [CZ19, Gon93]. **nonpositive** [HW19b]. **nonregular** [LT98]. **nonsingular** [LLZ25]. **nonsingular-kernel** [LLZ25]. **Nonsmooth** [MS22, BV24, HT24, ZW19]. **nonsquare** [fLLfDX21]. **Nonstandard** [MC10, DTZ24]. **Nonstationary** [DM15, DMS22, LC20, ON18b, Pit16]. **nonsymmetric** [DF26, XYZ21, dH94]. **Norm** [CK03a, BW20, Bün11, BMLC26, CK11, KL17, Nie98, PRS24, Tad19, ZPR03]. **norm-based** [PRS24]. **normal** [GG16, GS19a, HCF+21, ZTHW22]. **normalizable** [Yu24]. **normalization** [Spe25]. **Normalized** [BF03, JKLY13]. **norms** [MRS18, Wat94]. **note** [BI11, CLZ02, Dai16, Del17, Kun09, Lar18, Ste98]. **novel** [BlH23]. **nozzles** [HH19a]. **Null** [KCW17, AKKN22, BBB21]. **number** [CsL18, LWX19, MGSS22, RJ00, TL18]. **number-theoretic** [RJ00]. **numbers** [Sch95, ZZD25]. **Numerical** [AGN23, AG98, AMS22, ACM+22, ABMM19, BBB22, BGG24, BDFS19, BSSM22, CGH+13, CGHK23, CCH+15, Cum96, DDP14, DL98, ER99, FR10, FQ10, FZ19, GT14, Hau97, HW12, HXC10, HL20, JLW20, JY22, KNV23, Kei95, KRP19, KL22, KMO+14, Mar94, NSD24, OS09, Pen98, PLRGVR22, PSW24, PST08, RCJ+23, RHZ17, She13, SJJL15, TBD94, WH07, XY12, YZLL24, ZVW95, ZGGW12, ZB12, ZD17, ZZCC24, ADG17, BPW95, BSK19, BF11, BGMS07, Bes03, Ble07, Bre19, BP11, Cas07, CBLZ26, CX04, CJN18, CCDL20, CN96, CT17b, DHK98, DD94, DLP98, EJ97, FS25, FM14, FKT+19, FKT20, GVSLN96,

HO17, Hol01, HH19a, HJYZ23, KXL24, KKP24, Kle21, KS17, LLS09, LMYL19, LL12a, LJ18, Lut04, Mur08, NRR+22, OP11, PF23, SRC25, SW04, SJJY21, Tha19, WHS18, WZ19, WG19, WLPV15, XZ24]. **numerical** [XL10, Zam26, ZWZ19, BMSR+16]. **numerically** [AD08, CJ24]. **NURBS** [BX94]. **Nyström** [CSWP99, DLS14, HBMY14, HH15, LG13, SLT21, Tau19]. **Nyström-type** [CSWP99].

objective [dCFCF20]. **objects** [LD22, SF14, SB22]. **oblique** [CG10]. **oblivious** [DES21]. **Observability** [JRS15]. **observable** [LSLS14]. **Observations** [DHK98, GPT17, KKP19, XWL13, ZZCC24]. **observers** [GT14]. **obstacle** [BBR02, BR22, FF26, IKS10, LRY23, LMT01, Yan01]. **obstacles** [ACM+22, CH15, ZGGW12]. **Obstructions** [GS25a]. **ocean** [SI15]. **ODE** [AB97, Ben97, BKP20]. **ODEs** [AM24, Bur97, EJ97, JM00, KK26, WK93]. **offline** [Tad19]. **offline/online** [Tad19]. **offset** [PGB10]. **offsets** [CCH+08]. **oil** [KKL+22]. **Oldroyd** [AMK19, AP25, VMR26]. **Oldroyd-B** [AMK19, AP25, VMR26]. **One** [GKKS23, HMQ22, ZYY16, CLM96b, CLM18b, CLM18a, FKP26, GZ25, HT12, KORS17, KKP19, LZZ09, LG26, MS12, PO24, Wan19, XKY15, ZMQ23, ZG16]. **One-bit** [GKKS23]. **one-dimensional** [CLM18b, CLM18a, FKP26, GZ25, KKP19, LZZ09, LG26, XKY15, ZG16]. **one-leg** [Wan19]. **one-level** [HT12]. **one-spatial** [PO24]. **One-step** [HMQ22]. **one-way** [ZMQ23]. **Online** [APPP24, GYZ17, GS25b, GS19b, HBH24, Tad19, Yin07]. **online-adaptive** [HBH24]. **onset** [IL16]. **onto** [CWLH95]. **open** [CL18, NW22]. **operational** [ESM13]. **operations** [PR15, RLGGAV19]. **operator** [AW26, AR20, BMK15, DFR07, FQ10, GM14, HSZ24, Lut04, MWZZ23, MC10, RH12, RSZ11, XZ03, YY25]. **operators** [ACK19a, ACK19b, BDD06, BC20, BC19, CMP23, CS06, CCS16, DL04, DY10, DES21, FY13, Gna07, GLT93, GP14, GKS21, JL97, KP98, Kir98, KK02, Len96, Li94, LT98, MR10, MXZ08, PP24, PL05, TSV21, VR26, nCV13, WM21, ZBT+22, ZD16]. **operon** [CGDHRÁ+19]. **Optics** [Ano02c, BKN11, BPJ02]. **Optimal** [AMPT22, BEG17, BMRS20, CS06, CKW10, Dũn11, GL13, HMM21, HS20, KR19, LO08, LWW21, MRS14, Maz04, Mui99, Qiu23, Sch26, Wan19, ZP19, AM24, AW24, AGS24, BB24, BB25, CLC16, CLZ02, CGG+20, DJZ25, DSW05, DP13, EH24, FS25, Fou23, GHdN12, GZ25, GIKV21, GH06, GN13, HPS19, HP24, HJJV97, KS20, KP95, LSY24, Lee03, LC18, LZ20b, LLY26, LZ21, LLLH23, LY01, LGN22, MS22, MRS03, MTH21, NZ04, Per22, RH12, RJ00, RS19, Sch15, SY19, TX19, WZJ18, WZM21, WQP23, Yan03, YZLL24, ZW23b, ZW23c, dLdDSM07, Dũn12]. **optimality** [CP93, DJZ25, LC18, MM00]. **Optimally** [GQL24, LP04, ČF11, RST+14]. **Optimization** [SLN14, AHK+19, BHT11, BLV20, BA15, CD15, ESM13, GHKL18, HMQ22, IUV17, KKL+22, KO26, LSXZ15, LL21, LYZ26, PDB24, TBG18]. **optimize** [RMCCG+19]. **Optimized** [Onc14, SXWG22, AAPCC24, CCP22, LX26a]. **optimizing** [KLS19]. **option** [lZmCRX03]. **orbital** [KL19]. **orbits** [CS93]. **Order** [But97, FW15, YZ24, AD24, AK19, AHS20, AMU24, AW26, AL97, AK25, BS05, BB26, BOP+15, BGH15, BCS19, BD18, BA15, BGT26, BFFM24, BKR25, BMLC26, CDP03, CLM03, CWX12, CZ20, CFZ21, CS18, CEHK18, CLM18b, CLM18a, DM19a, Don20, DNS21, Fin19, FFMZ24, FMH26, FS98, FZLZ21, GL23, GW17, GLS15, GS25a, GZW18, GM22, GGW24, GH18, GHLU19, GW21, HBMY14, HZZ20, HWZ22, HLC26,

HKR04, HBH24, HS03, HLN12, HZZZ24, ILHH22, IRT23, JMO00, JS21, JY22, JN18, KLY26, KMSV24, KU18, KO26, KMMI19, KKK24, KCW17, KL16, Kür18, LR19, Li05a, LD16, LCC19, LZ20b, LYF+21, LZ22, LL12a, LWWZ22, LHH23, LR25, LBI25, MRS03, Mat09, MS19, MS04, Mö ß10, NS04, NKL+19, Noe95, NZ04, OBS15, PM17, PSNP11, Qiu23, Ram18, RHZ17, Ryd19, SI15, SM18, SPS18, SS15]. **order** [SBZR19, SLK20, SJJY21, SLT21, TX19, TTC21, TBD94, TGA96, WHTZ18, WZ19, WZzS21, WlL26a, WY20, WOBL17, Wie97, WZ20b, XL10, Xu14, ZP06, ZD18, ZPR03, ZT15, ZYB18, ZZC20, ZW22, ZJ23, ZLPX23, ZZL+24, ZD16, ZCY20, ZZ09, Zhu19, Yem22]. **Order-preserving** [FW15]. **ordering** [CM99, Dou94]. **orders** [Bre19, Wan19]. **ordinary** [yGqW09]. **oriented** [BWX97]. **originated** [MH17, Zhe06]. **originating** [ANZ23]. **Orthogonal** [Bes03, CMP07a, FM04, LH13, AB23, BFFM24, CI13, Dam07, DHO16, ES23, FMH26, JS99, Jia00, KESR22, MPS96, MPS97, PF23, QX21, Rei93, Sal98, SI15, SX07, TSY10, VLV26, Wat94, YF23]. **Orthogonality** [MPS96, MPS97]. **orthogonalization** [CK07]. **orthogonally** [Wat94]. **orthomaps** [ZB99]. **Orthonormal** [QWXZ10, CaL06, Han98, Han10, HHS04, Lai06, ZW25]. **oscillators** [KXL24]. **oscillatory** [AK25, DLUS17, KXL24, NUWZ17, XHC15]. **Oseen** [ALV26, ACPV21, LFL22, LLC16]. **osmosis** [BH25, HB24]. **osmotic** [LR19]. **outflow** [Kno09]. **output** [BHM18]. **outputs** [DHGA23]. **overlapping** [HS03, LHY08, Par20, PTC12, PSNP11]. **oversampled** [MH22].

p [WY17]. **P2** [XZ25]. **P3** [XZ25]. **package** [BD93, ZBT+22]. **packet** [CR08]. **packets** [ANZ23]. **Padé** [BC99, BNPP20, BCZ05, CDTV99, Dar03]. **Padé-type** [Dar03]. **Padua** [BDN26]. **pages** [Ano16]. **pair** [ZT15]. **Pairs** [CG10, Chr15, NSS04, CKK16, GLS15, Lem09]. **Pairwise** [LS24, GYZ17]. **panel** [HH15]. **panel-based** [HH15]. **parabolic** [AGN23, AN20a, AV15, BSK19, BV24, BA15, CHS21, CCM26, CJW22, FLM96, FS25, GLO10, HK21, HCYY20, KO26, KL17, LSY24, Le 05, Li05a, LZ21, LB93, LGN22, LSZ26, RS19, SPS18, SvVW22, TH19, gTpM02, VK96, WMW21]. **Parallel** [AB97, AH96, BP93, BF94, BS97b, BS97a, Bur97, BS00, Chi03, Jan98, Tal19, vdHdS97, ATS19, Ben97, But97, CSWP99, DHSW19, DHWZ18, EJ97, Moo17, RCJ+23, WMY13, WLPV15, XZ01, XZZ26, ZSHZ15, ZQS22, dH94, vdH93]. **parallel-in-time** [XZZ26]. **Parameter** [HO17, AHK+19, BCS19, BFMNP24, FaKT22, GPT17, GLM23, HKW25, HO15, JJLR14, Kno09, LJL20, LLY12, Nes16, OP11, QWS24, RH12, Rip99, RZ98, Sch11b, She13, TBG18, Wie15, WK93]. **parameter-dependent** [BFMNP24, FaKT22]. **Parameter-uniform** [HO17, OP11]. **parameter-varying** [BCS19, HKW25]. **Parameterization** [Jia00, BGT20, CLM02, CL18]. **Parameterizations** [Jia03, HL16b, KV21, LLLH23]. **parameterized** [ANGV19, BOP+15, CM99, HX21, fLLfDX21, LW26, RGB18, SS15, Tad19]. **parameters** [BRR18, EHV17, FYL08, KLS19, LAG+24, RDEG24]. **Parametric** [BGH15, BKR25, KKV15, ALDHHZ+19, BNPP20, CC94, FE15, GPS10, GDB24, HWS26, HBH24, KK99, LP21, MO19, SFDE15, WKH25]. **parametrized** [AHS20, BFFM24, DM19a, FFMZ24, FMH26, MN15, Yan19, ZMQ23]. **Pareto** [AR23, dCFCF20]. **Parseval** [BLP19, CK07]. **part** [BSK19, WZL17, Yao19, BN19, BN21, DMBH24]. **Partial** [BB26, ANGV19, Atr12, BV24, CJX17,

CN96, EOR18, ESTW19, FMH26, yGS08, HK21, HS08, LX26b, LS18, Mai20, PM17, SGK26, SW96, She13, WK20]. **partially** [HHX18a, HHX18b]. **particle** [KH05, KCCV23, LW23, XB05]. **particular** [AMS22]. **partition** [CM12, DHWZ18, DQS20, HL05, NSS04, ZSHZ15]. **partitioning** [Wie15]. **partitions** [CGKK21, MS07, SS04]. **Parzen** [ZZ09]. **pass** [Jia09b]. **Past** [Ano03c, Ano04d, Ano04e, Ano04f, Ano05a, Ano05b]. **patch** [KV21]. **Patches** [Kra02, BLP02, GPS10]. **path** [Tim21]. **Pathwise** [LZ25]. **pattern** [RTV21]. **pattern-forming** [RTV21]. **PCA** [WW12]. **PDE** [AV15, AHK+19, AC25, BHT11, CW09, DAP13, IUV17, ILHH22, KKL+22, KO26, Sch15]. **PDE-constrained** [KKL+22, BHT11, IUV17]. **PDEs** [AHS20, AKS23, APPP24, BFFM24, CCNT21, CH22a, DM22, FS25, FFMZ24, Le 05, LBCZ18, MN15, MSL21, VK96, YM24]. **peakiness** [GKS19]. **pedestrian** [PSW24]. **peer** [PR26]. **penalizations** [Per22]. **penalized** [BL09]. **penalty** [An20b, GS13, HY14, Lep23, LWX19, Mai20, PWL20, WHTZ18]. **pencils** [CG06, fLLfDX21]. **penetrable** [GHV25]. **perceptrons** [WFL02]. **perfect** [CJKK18, EGL13]. **perfectly** [LZZ09]. **Performance** [HD20]. **period** [SC08]. **Periodic** [CDS02, Zha05, AB02, AB23, BB26, BCMR24, CP03, CG10, DS01, FW15, GY00, LL13, LZ21, LL25, LP14, MP00, She13, Tor16]. **periodization** [Søn07]. **peristaltic** [BLV20]. **permittivities** [HKR21]. **permutation** [NSW16]. **permutation-invariant** [NSW16]. **Persistence** [CL22, PZ16]. **personalized** [RLGGAV19]. **perspective** [KL24]. **perturbation** [CCNT21, Che06, WHTZ18, WW24, ZZC20]. **perturbations** [She08]. **Perturbed** [Ram95, RSZ11, AB02, BBR02, CK11, CFZ21, GLO10, HO17, Kun01, LRS12, MR15, MR96, MXO13, MS19, MP18, OS09, OP11, RNT26, ZC14]. **Petrov** [AS05, CMX97, CMX02, DS01, Hua06, KSWX24, WY17, WY20]. **PH** [CHS20, GSS22]. **Phase** [BH23, BDFS19, BH15, BCMR24, BSSM22, CBLZ26, GHKL18, Han10, JR23, KL16, LMYL19, LGC+20, LS20, LL21, LYZ26, LS18, Tha19, TSV21, XPY26, ZY20]. **phase-field** [XPY26, ZY20]. **phaseless** [GLS25]. **phases** [QWXZ10]. **phenomenon** [BC99, RY13]. **photoacoustic** [DGK15]. **photographs** [ZB99]. **photonic** [KK02]. **physical** [FKT+19, TS05, ZRR23]. **physics** [DM22, HL21, KL24, MMNM23]. **physics-informed** [DM22, MMNM23]. **pi** [Len94, Len96]. **Picard** [Li25, VMR26]. **PIDEs** [TTP25]. **Piecewise** [AB23, Gu17, Wen95, ABC14, BGM93, Cas07, CDP25, HL05, JSSE97, KPY09, LY07, LM06, PR99]. **piecewise-polynomial** [ABC14]. **PINNs** [DM22]. **PinT** [LWWZ22]. **pipeline** [CM99]. **pipeline-efficient** [CM99]. **Pitaevskii** [FQH25, LZ20a]. **pivoting** [DM23]. **planar** [BCHS22, BLP02, BGN17, CG19, CHS20, CCLM21, DOZ94, KV21, LLS03, Zwi94]. **Planck** [HMX22, WSL+19, YTL+20, YL24a]. **plane** [GMM09, GM22, HBMY14, HPP+19, HY18, Li94, PC17, YH25, ZS24a]. **plasma** [CG17, LAG+24]. **plastically** [SEE96]. **plastically-formed** [SEE96]. **plate** [AL97, DRV26, FP99, Joh13, MM20, Ye00, Yoo01, ZB99]. **plates** [ATS19, LQW18]. **plus** [SS08]. **POD** [AV15, BFFM24, BKR25, GH18, GHLU19, KKK24, RH15, WKH25]. **POD-based** [BKR25]. **Poincaré** [KP98]. **point** [AKKN22, CZS16, DSW05, DLUS17, Dou94, Fou23, GMS12, yGmW98, KXL24, Khl18, KS17, KF19, Leo13, LSXZ15, LS19, LLHYN24, MRS22, MR96, MHR21, SC08, ZL20, ZC24]. **points** [AW24, BLP02, EMU26, Gom95, GH08, IP15, LQW18, NZ22, Pan95, Pra98, SW04,

Sto96, Ven94, WHS18, Yao19, ZS24a]. **Pointwise** [Dam07, GLX23, XLW26, ZHzSR21, NV10, PP23, WZzS21, WZM21]. **poised** [BH17]. **Poisson** [ALZ02, AK15, BL09, CBK01, HMX22, JL19, Li05b, Li08a, PP23, YTL+20, YL24a, Yem22, ZSB01b, ZhXpZ16]. **polarized** [AMPT22]. **poles** [VK96]. **pollution** [Spe23]. **Polycircular** [NRR+22]. **polygonal** [ANN22, DAN25, DSW20, GH06, LFL22, WWH21]. **polygons** [FHK06, FK10, Jon17, KB15, LD07, RGB13]. **polyharmonic** [BRS13]. **polyhedrons** [HR17]. **Polynomial** [GS00, JZ04, MNPW00, TMH21, WZ20b, Xu00, Xu04b, zCFX07, ABC14, ANZ23, Bar03, BGM93, BNR00, BR13, BFCIV22, BDN26, CDPS22, CT05, Cho95, DS00, Der04, EMU26, FGG+17, Fra99, GRV22, GDB24, HMS19, HW12, JKLY13, JLM19, Le 00, Lev99, MV99, Maz99, MWW13, MS00, Mon09, Nie07, Pan95, PS07, PR99, Sau95, SPS21, Sid17, Sor18, Tim21, Wen95, WS01, ZJ06, dB00]. **polynomially** [LP10]. **polynomials** [AG25, ACM20, Bün11, CMP07a, CI13, CCS16, DZ04, DHO16, DKB99, DGS18, DS13, Flo96b, GMRS97, IP15, Jüt98, LKW17, MPS96, MPS97, MS04, MN00, Pot04, PF23, Rau05, Rei93, Sal98, SX07, SS08, VLV26, WSM13, Xu04a, dB06]. **polytopes** [CCH+15, War96]. **polytopic** [HKW25]. **population** [AL21, Tyg23]. **poroelasticity** [AMU24, BKM+21]. **porosity** [HYHH21]. **porous** [BSSM22, DGMM16]. **port** [RWB+24]. **port-Hamiltonian** [RWB+24]. **posed** [BL09, BE00, LLY12, XY12]. **posedness** [ZAL26]. **Positive** [LS05, Bai99, De 06, FM21, GP95, GS10, GQ22, GGRBRG21, Luo99, Pin04, SM99, WMY13, WMB13, Wen95, Wu95]. **positivity** [CEHK18, DSW20, LM06, Maz01]. **positivity-preserving** [CEHK18, DSW20]. **post** [HZZ20, LZY98]. **post-processed** [HZZ20]. **post-processing** [LZY98]. **postbuckling** [Mur08]. **postconditioning** [FJ99]. **posterior** [And20, AR23]. **Posteriori** [Ano01b, BBB21, Bra01, CR23, CBK01, CK11, DFOS23, DRV26, DY01, EBS22, GMBS23, GK24, HORU19, KY01, KL17, LC21, LMRV23a, LMRV23b, MSZ06, MRH15, MW01, RWB+24, SWH20, WXWL19, ZC14, DS24, Kun01, CLM18b, CLM18a, AK01, ARPR01, DLZ16, GN13, HR01, KNV01, LY01, LLY12, Pet02, PS05, Yan01, Yan03, Zha01, ZSB01b]. **potential** [AC25, BST24, FL23, GM24, Li09, SB22, aKT17]. **potentials** [CGG+20, EX20, FaKT22, GJW20, IMS99, Li10b, ST23, SJJY21, WG19]. **Poussin** [SU22]. **Powell** [AS02, LLS96, LL98, MS07, Rem12, SW08]. **power** [ASS10, CS18, GKS19, LS98, NSW07, RS99]. **power-growth** [RS99]. **powers** [PF23]. **Practical** [WMB13, CN96, WZL17]. **precise** [Jon17]. **precision** [GPS10, NP18, Tim21]. **Preconditioned** [LNW02, BCM99, LLY26, MS98, RSZ11]. **preconditioner** [Bre95, FH18, HS03, HH19b, LW26, LK05, PM19, PTC12, PL05, Sto17, Zhu15]. **preconditioners** [Bai99, DKMT20, MS99, NBL11, SW98, TSZ98]. **Preconditioning** [GK19, Wan12, vdH93, BHT11, BPK96, CHY11, GPS21, JS95, KP95, KvL95, Kun95, LZ21, MV01, SLC26, ZT14]. **prediction** [CC24, HHKS24]. **predictive** [AV15]. **predictor** [CSWP99, ZD14]. **Preface** [AS03, Ano00b, Ano02d, Ano04g, Ano05c, Ano06, BP11, CHY10, Dah95, GOZ03, NW04, Sch04, SX09, Twi96, XY12, BOP+15]. **preimage** [KNV23]. **prescribed** [CL02, FMPS13, Kac18, MRS18]. **presence** [AL13]. **Preservation** [CK03b, CLMR10, CMP07b, FP98]. **preserve** [MXZ08]. **Preserving**

[CP04, GZA20, AW24, BGW21, CP93, Car95, CJ07, CCDL20, CEHK18, CCS16, CGM01, CM03, CP07b, Der04, DSW20, EOR18, FBCR13, FW15, GO05, GWC24, HBH24, HR17, JlLZ20, JSW20, KNP98, KU18, KBL22, KvD01, LLLH23, PSW24, QYY26, SS14, SGK26, WW19, WZzS21, YL24a, ZJ23]. **pressure** [BSSM22, BR15, DTZ24, Lep23, LGQ24, WaZL24, YZ21]. **pressure-correction** [LGQ24, WaZL24]. **pressure-residual** [DTZ24]. **pressure-robust** [YZ21]. **pricing** [lZmCRX03]. **primal** [AHL25, DGMM16, KPY09, LY21]. **primal-dual** [AHL25, KPY09, LY21]. **primal-mixed** [DGMM16]. **Prime** [LMO14, Kot08]. **prime-counting** [Kot08]. **principal** [Gat21, IB17, LKT18, SLN14]. **principle** [AHS20, GWC24, IKS10, JlLZ20, ZZL+24]. **principles** [Kos15, LSLS14, MSST14, RT14]. **printer** [ALADH+19]. **prior** [Fou23]. **priori** [ALV26, BMLC26, JS21, WXWL19]. **probabilistic** [AVGGEG+19, BFMNP24]. **probability** [ACM20]. **problem** [AK01, AMK19, ALV26, Ara20, AGGAV+19, ACH10, AHC11, BST24, BSK19, BBF+24, BGMS07, BMSR+16, BE00, CK11, sCLC13, CGM18, CCM26, CH15, CL07, CMX07, CZS16, CJW22, CDM+24, CWW24, CL16, CMM21, CHP19, CG17, DRV26, FLM96, FF95, FS25, FYZ25, FRT09, GMM09, GRdSA19, GPS21, GGRBRG21, yGmW98, GZZ25, GN13, HLC26, HO17, HKR21, HPS19, HT11, HXC10, HCH20, HFH15, KL00, KS17, KCW17, LAG+24, LST11, LR19, LMRV23a, Lep23, LMRV23b, Li05b, LLZ10, fLLfDX21, LFL22, fLL05, LLL24, LL25, LLZ25, MR15, MC08, MS19, MM20, MP18, MN24, Mur08, NT23, O'N18a, OP11, Pei05, QC12, SRC25, TW98, Wan08, WHTZ18, Wan22, WBY24, WZ10, WLW23, XY15, XZZ26, Yan03, YTL+20, YS23, Yem22, YY25, YXX22, ZZP23, ZB12, ZPY15, ZZC20, ZZCC24, ZC14, ZW12, vdH93]. **problems** [AG25, AGN23, AN20a, AU20, ARPR01, AC05, ABI15, AKKN22, BCC22, BL09, BKN11, BBB22, BHT11, Bes03, BFMNP24, BDMR10, BA15, BK96, BBT25, BS97a, BS00, BMLC26, But97, CZZ17, Cas07, sCLC13, Che06, CWX12, CHY10, CMZ26, CP15, CHS17, CHY11, CCE+12, DDP14, DJZ25, DRS08, DSW20, DLZ16, EH24, EHS02, EX20, FK98, FKS05, FF26, GM17, Gia20, GM14, Gil17, Gna07, GLX23, GO95, GH06, yGjW10, HWS26, Hak00, HHSM24, HN18, HNT22, HKRS14, HH16, HHX18a, HHX18b, HH15, Hem95, Hem96, HR01, HQHV20, HMQ22, HO15, HJH12, HW18, HX17, HL21, JS21, JN18, Kac18, KMSV24, KORS17, KXZ04, KSWX24, KL19, KPY09, KF03, KNV01, LSY24, Lee03, LC18, LC20, LC21, Li05a, LSXZ15, LS19, LZ21, LRS12, LMT01, LY01, LR25, LBI25, MSZ06, Mar94, MO16]. **problems** [MR96, Mat09, MC23, MTH21, MNC16, NW22, OS09, Ock96, PR26, Par20, Par22, Per22, PP97, PSNP11, RNT26, Ram18, RS19, RSZ11, SWH20, SXZ06, SPS18, SH23, SSH25, Sou22, Sto25, Sto96, Sun14, TLG+22, TQ24, TZL16, TDG16, Tom96, TBD94, VW05, VR26, WL12, WHS18, WXWL19, Wat94, WY20, XZ01, XY12, XYZ21, Yan01, YX24a, Yao19, YZ25, ZP24, ZMQ23, Zha14, ZL17, ZYC19, ZCB21, ZRW26, ZL16, ZL20, ZW23b, ZW23c, Zho25, Zho26, dCFCF20]. **problems-application** [SWH20]. **procedure** [BRZ94, GZ25, PSNP11, Sch11b, SU22, Tad19, Yan19]. **process** [ALZ02, DAP13, ZZCC24]. **processed** [HZZ20]. **processes** [BBF+24, CDP09, Han24b, KBL22, SU12]. **processing** [Jia11, LSXZ15, LZY98, PZ16, RT14, SX09, Sun14]. **processor** [AH96]. **Procrustes** [Wat94]. **Product** [AEI25, Bün11, CP15, DF26, Flo94, FP98, GO95, KK99, LS05, MJM23, Pin04, RS19, SBEH24]. **production** [GGRBRG21]. **products**

[FMR00, FGMS19, GY00]. **Professor** [Sil99]. **programming** [AHS20, LLHYN24]. **programs** [ZLPX23]. **projected** [XLL24]. **projection** [APV14, CLMR15, HT12, KS18, KH05, LH13, LFL22, Mat09, MN24, TQ24, TSV21, ZMQ23, ZZD25]. **projection-based** [MN24]. **projections** [BLP19]. **projectors** [She08]. **prolate** [LST11]. **Prony** [BH23, JLM19, Sid20, ZP19]. **Proof** [FP99, Spe23]. **propagation** [ABMM19, WKH25]. **proper** [BFFM24, ES23, KESR22, SI15]. **properties** [AB11, BS06, Boc23, BD21a, BD21b, CR08, CHL17, CGKK21, CGR11, CL02, DQS20, GGL07, JL97, Mai10, MPS96, MPS97, Mha93, MNW99, PŠWX03, PR19, Pla12, RAB+09, ZP24, Zam26]. **property** [BH17, CGP95, CM12, HV19a, JKLY13, MP96, Pré94, SBEH24, SL12]. **proportional** [XH13]. **proportionality** [CHMR97]. **Prössdorf** [Sil99]. **prototype** [RLGGAV19]. **Proximity** [MSXZ13, LSXZ15]. **Pseudo** [Awa15, Mai06, FÁG19, JZ24, JSW20, LZ20a]. **Pseudo-dimension** [Mai06]. **pseudo-random** [FÁG19]. **pseudo-spectral** [JZ24, JSW20]. **pseudo-spectral-difference** [LZ20a]. **Pseudoaffinity** [Maz07]. **pseudodifferential** [DPS93, DS01, FQ10, GP14, PS98]. **pseudoframes** [LO08]. **pseudomonotone** [HQHV20]. **pseudoparabolic** [FL23]. **pseudospectral** [GZW18, yGSlX03, lWyG06]. **Publisher** [Ano01c]. **Puiseux** [WZL17]. **pumps** [BLV20]. **pursuit** [QWS24]. **pyramids** [RF19]. **Pythagorean** [AF96, FS94, FaKS02, FGS16, JKK+12, KJ09, KKV15, PFMS05, Pot95, RSA14, RM19]. **Pythagorean-hodograph** [AF96, FS94, FaKS02, FGS16, JKK+12, PFMS05, Pot95, RSA14]. **Python** [CLR19].

QCMC [HL16b]. **QMR** [Cul96]. **QMR/BiCG** [Cul96]. **QTT** [FKP26, KORS17]. **QTT-FEM** [FKP26]. **QTT-finite-element** [KORS17]. **quad** [GZZ25]. **quad-curl** [GZZ25]. **quadrangulations** [NSZ04]. **Quadratic** [CLLS06, MP04, MS07, Noa02, BG24, BGW24, CLMR10, CWW24, DHGA23, Kva14, WQP23, YF23, YZLL24, ZCB21, ZW20]. **quadratic-bilinear** [BG24, BGW24, DHGA23]. **Quadratic-Cycloidal** [MP04]. **quadratically** [MN15]. **quadratization** [LZ22]. **Quadrature** [Nai12, SB22, ACH21, BF94, FXZ96, FM14, FaKT22, GVSLN96, HZHL12, MC10, SX07, ST23, Tad19, WM21, XHC15, Yan19, aKT17]. **quadratures** [LL12a]. **quadrilateral** [AAQ15, FF95, Jia11, KST21, LY08, LPSSP00, LL10, LL12b, MC08, ZYC19, Zho26]. **quadrilaterals** [FM25, NRR+22]. **quadtree** [KHM16]. **quality** [SBMS22]. **qualocation** [JSSE97]. **quantification** [GPS21, HSSS18, WBGG22]. **Quantile** [SHTS14]. **quantiles** [Xia13]. **quantization** [LPY10, Wan08]. **quantum** [HL21, IJH26, ZJ23]. **quarklet** [DHV24]. **quartic** [HWZ23, MH17]. **Quasi** [CDP25, KKL03, KKLY10, NV10, AGS24, CP99, CSS98, DL98, DGMM16, Dũn09, FYZ25, HL16b, LM04, LC18, MX24, MS07, RH12, Rem12, Spe17, WLL26b, WLW23, WL05]. **quasi-affine** [CSS98]. **Quasi-biorthogonal** [KKL03]. **quasi-boundary-value** [FYZ25]. **quasi-conformal** [HL16b]. **quasi-interpolant** [Dũn09]. **quasi-interpolants** [MS07, Rem12, Spe17]. **quasi-interpolating** [DL98]. **quasi-interpolation** [LM04, WL05]. **Quasi-interpolatory** [KKLY10]. **Quasi-Monte** [CDP25]. **quasi-Newtonian** [DGMM16]. **quasi-optimal** [AGS24, RH12]. **quasi-optimality** [LC18]. **quasi-rational** [MX24]. **quasi-reversibility** [WLL26b, WLW23]. **quasi-wavelet** [CP99].

quasigeostrophic [SI15]. **quasilinear** [ANN22, CH22a, HK21, LB93]. **quasiuniform** [GH06]. **Quaternion** [Far10, FGMS19]. **quaternions** [Wal25]. **quenching** [XZZ26]. **queueing** [AGGAV+19]. **quintic** [CHS20, Far10, FGS16, GSS22, SS04]. **quintics** [KJ09]. **quotient** [MS04]. **quotients** [ES23].

R [MRS22]. **Rachford** [HH16, TSV21]. **Radau** [BS97b, BS97a, BS00]. **Radial** [BRSV15, LR07, Li10a, Li10b, BCM99, BGH15, BRR18, CL16, CSW96, DSW05, Fas99a, Fas99b, FF05, FS98, FZ19, FW15, GW17, Hub12, HJ25, LST11, LW14, LM14, LLY06, Li05a, Li09, LK05, Low05, Mai05, RS99, Rip99, Sch95, SS08, SRFH12, WH07, Wen95, WK20, Wu95, Xu98, dB06]. **radial-basis** [RS99]. **Radiation** [MKS02]. **radii** [AMM20]. **radiosity** [AC00, Han05]. **radius** [CCMM21, DY10, Möß10]. **Radon** [CG15, LBI25]. **raising** [FL00]. **Ramlau** [HR13]. **Random** [PS23, BKP20, CCNT21, CP15, EMU26, FÁG19, FS25, FFMZ24, HHKS24, HG25, JWJ23, QZX23]. **Randomized** [AK19, BN19, BN21, CWX24, CW19, HLC26, LA22, LKT18, ZC24, Boc23, DM23, JWJ23, MB20, MT26, SMK22, YL24b, ZZ09]. **range** [APK20]. **ranges** [BDYY20]. **Rank** [NSW16, AAPCC24, AL21, BG26, BGT20, CMP23, CB25, DDLL23, GIKV21, GS20, GKS21, KKK24, LMWX13, MRS22, RW26, SMK22, Sid17, XLL24, ZLH+24]. **Rank-** [NSW16]. **rank-1** [GIKV21]. **ranking** [LS24]. **Rapid** [Lee21, Bre19]. **Rate** [Li08b, Ara20, HSZ24, Sun08]. **rates** [ACM20, BC19, CET21, FJ99, HL18, LR07, Wan23a, Wan23b]. **Rational** [FM18, TSY10, BG26, BEG22, BB24, BGT26, CLM02, DP13, DOZ94, EGL13, FM21, Far10, FGS13, FGG+17, GMB97, JJK13, JW95, MX24, Pot95, Sid20, TBG18, VK96, gYyG12]. **Raviart** [CL07, HCYY20, HMM21, YZB20, ZHY19]. **ray** [GL13]. **RB** [SWH20]. **RBF** [AFM23, Bru23, FM21, GK19, Han12, LSW17, Sch11b]. **RBF-interpolation** [Sch11b]. **RBFs** [Fus08a, Fus08b, NSW07]. **re** [DHSW19]. **re-distancing** [DHSW19]. **reaction** [ANN22, CK11, DFOS23, GLO10, KC16, Kun01, MR15, MXO13, PR26, SZJ21, ZAL26, ZC14]. **Real** [LS18, ANSZ17, BMB14, Bre19, Dam07, FRT09, GP13, GS19a, IB17, NUWZ17, Pan95, Pin04, VK96]. **real-life** [FRT09]. **real-time** [ANSZ17]. **real-valued** [IB17]. **realizations** [RDEG24]. **realized** [Tal19]. **reciprocal** [BEG22]. **reconstructed** [LLY26]. **Reconstruction** [AL21, DMT03, Var96, ARAK09, Atr12, BDMR10, BRR18, CJKK18, CCH+15, Don20, DM15, EGL13, FPR+12, GP14, JLW20, KL15, LK26, SW06, Sun10]. **reconstructions** [BD18]. **recoverable** [KL15]. **recovered** [ZW19]. **Recovering** [WL12, GN08]. **Recovery** [FZ12, AAPCC24, BCV23, CCSS09, CS06, CFZ21, CCLM21, DY01, Dũn09, Dũn11, FRW25, Fou23, FL24, Gat21, GL13, JLM19, KKL+22, XWL13, Yan01, Yan03, YTL+20, Zha01, Zho25, ZLH+24, Dũn12]. **recovery-based** [CFZ21]. **rectangles** [CDP03]. **Rectangular** [Awa13, HNT22, DM99, Rem12, ZWDD16]. **rectilinear** [KNV23]. **Recurrence** [VLV26, EHV17, MXZ08, RL07]. **recursion** [Wal95]. **recursions** [Wal95]. **Recursive** [Cop98, BR22, TZ03]. **Reduced** [ASU17, GLS15, MRH15, PGB15, AZW15, ANGV19, AW26, BHM18, BV24, BFMNP24, BFFM24, CEL15, DM19a, FFMZ24, GGW24, GH18, HK21, IUV17, KO26, KMMI19, LAG+24, LR19, LBI25, PPH+21, PDB24, RH15, RWB+24, SI15, SL15, Sid17, SBZR19, Wie15, Yan19, HORU19]. **reduced-basis** [IUV17]. **reduced-order**

[AW26, GH18, LBI25, SI15]. **Reducing** [Ant18]. **reduction** [AHK+19, AK19, AHS20, AZW15, AW24, BN19, BN21, BGT20, BB26, BOP+15, BGH15, BFH+18, BCS19, BGT26, BKR25, CS18, DHGA23, FE15, FMH26, GZA20, GDB24, GHLU19, HBH24, HO15, KU18, KKK24, KCW17, Kür18, NP24, PS07, RGB18, SM18, SS15, Tom96, Yan19, ZN18, Zhu19, ZC24]. **redundancy** [BH15]. **Refinable** [Gro13, HM03, CX04, CTZ02, De 06, GGL07, Han24a, JS99, KKLY10, LLS95, Li04, MS04, Pit16, Sau06, dVR19]. **refined** [GJS14, KP95, KP98, ZGV22]. **Refinement** [DX10, ARPR01, CHP19, DM93, DY10, Han06, JL97, Li04]. **refinements** [HNN23]. **reflected** [NH26]. **reflected-forward-backward** [NH26]. **reflection** [MP23, Wan12]. **reflectivity** [DMT03]. **regard** [TYY11]. **regime** [Li25, ZW22]. **region** [DLK12, FW25]. **regions** [CMP07b, CCLM21, JW95, KvL95, Pet96, San15, TB16]. **register** [CM99]. **register-** [CM99]. **regression** [DMN25, SHTS14, SW10, YZ23]. **regular** [CET21, Led15]. **regularities** [YX24b]. **Regularity** [MS97, CCK20, LLD24, MXO13, Rei24, XLW26]. **Regularization** [EPP00, Świ19, Zoz15b, Zoz15a, BT24, BJX09, DSS09, FBDH19, FQ10, GS13, HT11, LSY24, MJM23, MZ13, RH12, SHTS14, WLL26b, WLW23, YZ25, ZW12]. **Regularized** [SW10, Bad19, DGK15, GYZ17, Hu07, WZ10, ZW19]. **Regularizers** [MMP13]. **regularizing** [Pla12]. **Reguralizers** [Lar18]. **reinforcement** [APPP24]. **Reissner** [AL97, Ye00]. **related** [DGS18, HH19b, MPR22, Sid17, TDG16]. **Relation** [PZ16]. **relations** [EHV17, RL07, VLV26]. **Relaxation** [SM24, FQH25, HJJV97, LX26a, WLB22, vdHv97]. **relaxations** [Las16]. **relaxed** [TQ24]. **Reliable** [CCE+12]. **ReLU** [LP21]. **Remarks** [HJJV97, DT96, Dou94]. **removal** [RY13, SEE96]. **renewal** [AB23]. **reparameterized** [BCMR24]. **representation** [AGU25, BDD06, CMP23, CWLH95, CLM02, KMSV24, Lev99, MSST14, MNW04, Nie98, RW26]. **Representations** [Ano02d, CP93, Dar03, Dũn09, GN08, GL17, Hub12, HJ25, TZ05]. **representer** [Sch21]. **representing** [RBGS18]. **reprint** [CN96]. **Reproducing** [FY13, BMP+19, DLU19, HT11, JKLY13, PS23, RY16, vdMNS03]. **Reproduction** [JZ04]. **rer** [Sil99]. **Residual** [LC21, APV14, BN21, CG26, DTZ24, Mai20, MW01]. **residual-based** [CG26, MW01]. **Residual-type** [LC21]. **residue** [GGAVGG+19]. **resistance** [BGG24]. **resistive** [GDMS21]. **resolution** [BlH23, Gat21, HFH+07, ILHH22, JLM19, NT23]. **resonance** [NW22]. **respect** [CMP07a, Rei93]. **response** [TZL16]. **restarted** [BR23, dH94]. **restoration** [Del17, FRT09]. **Restricted** [CMP03, SL12]. **Restriction** [AD08]. **restrictions** [BMRS20]. **result** [JS95]. **results** [CHS21, GVSLN96, HW18, Kun09, MN00, NSW98]. **retarded** [Hau97]. **RETRACTED** [Zoz15b]. **Retraction** [ZLPX23]. **Retraction-based** [ZLPX23]. **retrieval** [BH23, BH15, JR23, LL21, LS18, TSV21, Wan12]. **reused** [PR26]. **reversibility** [WLL26b, WLW23]. **reversible** [CS93]. **revisited** [BRZ94]. **revolution** [Ara20, CMR07]. **Reynolds** [TL18, ZZD25]. **Riccati** [AKS23, BF11, CB25, KA97]. **Richardson** [JLZ08]. **ridge** [GJU22, Mai10, WFL02, GJU22]. **Riemann** [Bra01, BS23, EGST13, JN18, KS17, LS19]. **Riemannian** [DDLL23, GH16, HW19b, LL21, Noa06, Noa14, WYW11, YZ08]. **Riesz** [Grö03, HHS04, Leo13, SLC26]. **right** [FR10]. **right-hand** [FR10]. **rightmost** [GKS21]. **Rigorous** [SWH20]. **ripplets** [Pit16]. **risk** [MNPR06]. **RKDG** [ZQ13, ZG16]. **RKN** [Ram95]. **RMS**

[Nes16]. **Robin** [HYHH21, LX26a, PSNP11, SJJL15]. **Robin-Robin** [HYHH21]. **Robin-type** [PSNP11]. **Robust** [AAPCC24, HG25, Kun01, LSY24, LZ21, ZC14, AHK+19, BlH23, ÇY23, Don20, TTP25, YF23, YZ21]. **robustness** [ZSB01b, ZYY16]. **role** [Joh13, Ock96, SBMS22]. **ROMs** [BFFM24]. **roots** [ZR24]. **Rosenbrock** [BBB+16]. **rotating** [SF14]. **rotation** [FaKS02, Far10, FGS13, FGG+17]. **rotation-invariant** [FaKS02]. **rotation-minimizing** [Far10, FGS13, FGG+17]. **rotational** [CS19, LGQ24, WaZL24]. **rounding** [Bar03]. **Roundoff** [TZ03]. **RT** [SPS18]. **Rubenchik** [JZ24, ZWZ19]. **rule** [Nit22, SC08]. **Ruled** [SR02]. **rules** [Han10, IRT23, NSW16, RH12, RJ00, WYW11, WZL17, WM21]. **Runge** [BP93, Boc23, BS97b, BS97a, BS00, CHMR97, CLM03, CMR07, CLMR10, CLMR15, CSWP99, Hal95, JMO00, Liu99, Mui99, QYY26, SLT21, vdHdS97, vdHS00].

Sabin [AS02, LLS96, LL98, MS07, Rem12, SW08]. **Sacker** [LMV11]. **saddle** [Yao19, ZL20]. **safe** [HKR04]. **Said** [MX24]. **salesman** [Wan08]. **Salzman** [Han05]. **same** [CGR11]. **sample** [GKS19]. **sampler** [FPR+12]. **samples** [CsL18, SW10]. **Sampling** [BGT20, RZ10, WSM13, vdMNS03, ARAK09, Atr12, BH23, Dũn09, Dũn11, Dũn12, Gat21, GLS25, GZ13, JJK13, JWJ23, PS23, Pra23, RTV21, Søn07, SZ09, Sun10, Sun14, Tan17, XP10, YL24b, ZZ09]. **Sampling-free** [BGT20]. **sampling-reconstruction** [ARAK09]. **satellite** [FM04]. **satisfying** [TSY10]. **Saul'yev** [GWC24]. **SAV** [JY22, LS20, LZlL26, ZL21]. **SBFs** [NSW07]. **scalability** [JAA22]. **scalable** [MMNM23, WLPV15]. **scalar** [BR07, HN18, Han24b, Khl18]. **scale** [AMM20, BF11, BW20, BRSV15, BBT25, CS94, HHSM24, HN18, HLC26, HL21, JWJ23, KESR22, LZ26, Plo95, RH15, SI15]. **Scaled** [BLS02, BBdD21, CMP21, NW22]. **scales** [MXO13]. **scaling** [CP03, CWW24, Han98, YZ25]. **Scattered** [DZ04, ECS18, AEI25, FHN94, Grä12, IP15, Kun09, LW04, LNW02, MNW99, NSW98, NG99, Pot04, WL05, WSM13, Yoo01]. **scattered-data** [NSW98]. **scattering** [BCV23, BR22, Cai02, CGM18, GL23, Gil17, GM22, HSSS18, HR02, IKS10, LD22, LN14, MKS02, QC12, VW05, WL12, YZB20, ZGGW12, Zho25]. **scheme** [BNP14, BCZ23, BBB22, BS05, CLC16, CC22, CJ07, CL07, CLCH19, CtTB21, CLM18b, CLM18a, CGRS15, CT17b, DLM26, FGS13, HT24, HFH+07, HWZ22, HH15, HW18, HCYY20, JSW20, JL19, LZ20b, LYF+21, LY08, LHH23, MB96, PSW24, Qiu23, SJJY21, SXWG22, Tha19, TTC21, WaZL24, WC25, Wie97, WQP23, XY20, XPY26, ZYB18, ZW22, Zho26, aZWL23]. **schemes** [ADL11, BD18, Ble07, Boc23, Bru23, CMR07, CD15, CMX97, CZ20, CZ19, CGR11, CGR13, DD94, DS24, DLUS17, DLU19, DSW20, DS13, Flo96a, FQH25, GAN20, GRV22, GZW18, GWC24, GMS12, GGRBRG21, Han24a, HW19b, JKLY13, Jia95, JN18, LLY06, Lev99, LP10, LQ14, LD16, LMYL19, LSY22, LZ22, LGQ24, LYZ26, LZlL26, MS12, Mui99, MH17, Nie07, Noe95, Ram18, SW96, Sou22, TQ17, TDG16, WZJ18, WZzS21, ZPY25, Zhe06, ZW20, ZC24]. **Schmidt** [CK07, Chr15]. **Schnirelman** [Yao19]. **Schoenberg** [SS96]. **Scholes** [PGB15]. **Schrödinger** [AK25, BK16, CLC16, GRdSA19, GM24, JSW20, KU18, LRY23, LZ22, LJ18, MWZZ23, SY19, WZJ18, XY20]. **Schur** [Dai16, Peñ11]. **Schwarz** [Bre95, BR07, CCP22, LX26a, PTC12, SXWG22]. **Schwinger** [Che02, GM22]. **Scientific**

[SGK26]. **SDEs** [CJN18, IY22, Wan23a, Wan23b]. **SDFEM** [ZL17]. **Second** [BA15, CZ20, CHS17, HLN12, O'N18a, SJJY21, TW98, TGA96, ZYB18, AD24, Bad19, Bra01, CMX97, CP99, DM19b, Don20, FZLZ21, GS25a, GZW18, GGW24, HS16, JY22, LZ20b, LYF+21, LWWZ22, LHH23, LR25, Mar95, PSNP11, Qiu23, RHZ17, TX19, WY20, XL10, Xu14, ZP06, ZCY20]. **second-** [FZLZ21]. **second-/fourth-order** [FZLZ21]. **Second-kind** [O'N18a, TW98]. **Second-order** [BA15, CZ20, HLN12, SJJY21, TGA96, AD24, Don20, GS25a, GGW24, JY22, LZ20b, LYF+21, LWWZ22, LHH23, LR25, Qiu23, TX19, WY20, ZCY20]. **sectional** [HW19b]. **sections** [Flo96a]. **sectorial** [FM04]. **Segel** [GK24]. **segment** [MNW96]. **segmentation** [DLK12, KPY09, RWT13]. **segments** [Pet96]. **Seidel** [Dou94]. **seismic** [Wan12]. **selecting** [Rip99, Sch11b]. **selection** [AAPCC24, CHMR97, CDPS22, GLM23, Kac18, WlL26a, ZC24]. **self** [BM00, FMPS13, MSW+22, YZ24]. **self-adjoint** [FMPS13]. **self-associated** [BM00]. **self-consistent-field** [MSW+22]. **selfadjoint** [JM00, PP24]. **Sell** [LMV11]. **Semi** [Buh06, PIZ01, PDB24, TH24, BS05, Bru23, CLC16, DNS21, JWJ23, JRS15, LC13, LG26, PP97, WW19]. **Semi-active** [PDB24]. **semi-cardinal** [BS05]. **semi-discrete** [Bru23, LC13]. **semi-discretely** [LG26]. **semi-discretisations** [WW19]. **semi-discretization** [JRS15]. **Semi-explicit** [PIZ01]. **semi-implicit** [CLC16]. **Semi-infinite** [Buh06]. **Semi-Lagrangian** [TH24]. **semi-linear** [DNS21, PP97, WW19]. **semi-randomized** [JWJ23]. **semidefinite** [Las16]. **semidiscrete** [CW16]. **semidiscretized** [VK96]. **semilinear** [AV15, Cas07, CK11, FLM96, KL17, LGN22, WMW21, ZZP23]. **seminorms** [AM14, LL99]. **sensing** [FBDH19, SL12]. **Sensitivity** [KA97]. **separable** [CS03, HHX18a, HHX18b, TY18]. **separating** [lZmCRX03]. **separation** [Leo13]. **sequences** [BD10, BR07, FÁG19, GGL07, Grö03, LY07, LYY13, MP96, SZ09, Yu24]. **sequential** [PJ20]. **series** [CDTV99, LLD24, LT13, Pré94, QW11]. **set** [BLP02, BDFS19, Boc23, FGG+17, GLT93, KPY09, Pan95, PS23, RLGGAV19, XKY15]. **set-valued** [XKY15]. **sets** [BH17, BS06, CG15, CG19, Cho95, FMR00, FH05, FGMS19, HV19a, HV19b, KF19, Leo13, LL13, LL11, WSHD07, Wie15]. **setting** [ZHzSR21]. **several** [GS00, MS12, Xu00]. **SfePy** [CLR19]. **Shah** [KPY09]. **shallow** [CT17b, Don20, FL24, IL16, KKP19, KKK24, TTC21, vdHS00]. **shallow-water** [FL24]. **Sham** [CGH+13]. **Shape** [BLV20, CP93, CMP07b, CM03, CP04, CP07b, Der04, GO05, CH15, CGM01, DM19a, GHKL18, HSSS18, HSV09, KvD01, LYZ26]. **Shape-Preserving** [CP04, CM03, GO05]. **shaped** [Pit16]. **shapes** [Alb15, BJMR24]. **shared** [DHSW19, Jan98]. **shared-memory** [Jan98]. **Sharp** [CC22]. **Shaw** [LYF+21, ZL21]. **shearlet** [GL13, PR19]. **shearlet-wavelet** [PR19]. **shearlets** [BLP19, SPS21]. **shells** [Ara20, YDF97]. **shift** [CHL17, GS25b, HHS04, Sun10, SLC26]. **shift-invariant** [CHL17, HHS04, Sun10]. **shifted** [BKR25, DFS+24, KLY26, Yoo01]. **Shishkin** [Mat09, MS19, ZL17]. **Shliomis** [ZPY25]. **shooting** [CS93]. **short** [GLS25]. **short-time** [GLS25]. **Shortest** [dVR19]. **sided** [MS18]. **sides** [FR10]. **sideways** [LK20]. **Siegfried** [Sil99]. **sifting** [DAP13]. **Sigma** [Wan08, LPY10, Len94, Len96, GKKS23]. **sigmoidal** [Sto96]. **sign** [RDEG24]. **Signal** [MSST14, Gat21, Lee21, PZ16, RT14, Sun14].

signals [BRR18, PS23, Ren09, Var96, Wan12]. **signatures** [CC94]. **Simple** [JlLZ20, SO20, CG04, CKBP11, JWJ23, MST05, MY17, Spe23, SB22, ZLPX23]. **Simpler** [DM23]. **simplices** [Wie97]. **simplified** [HY14, RHZ17]. **simply** [BB25, CWLH95, CL18]. **simply-connected** [CWLH95, CL18]. **simulating** [KCCV23]. **Simulation** [Zhu15, BGMS07, BGG24, BDFS19, FE15, FKT+19, FZ19, HPP+19, XKY15, Zhe23]. **simulations** [APK20, BK24, BS24, CEL15, GO26, KS18, ZGV22, ZG16]. **Simultaneous** [CJW22, Füh08, LT06, PCM+96]. **sinc** [AD24]. **sine** [LZ20a]. **Single** [gTpM02, EJ97, NT23]. **single-eigenvalue** [EJ97]. **singly** [Tor16]. **singular** [ACH21, BT24, ByLl01, Bes03, Boc04, Che06, CKP13, DX20, FR10, Gu19, HX17, HS16, HX21, IRT23, KXL24, LKT18, LWW21, MNN25, Nit22, Pla12, Smo07, WHTZ18, WM21, ZZC20]. **singularities** [Fin19, HZHL12, MRS22, MV99, MP00]. **Singularity** [KNP98, lZmCRX03]. **singularity-separating** [lZmCRX03]. **singularly** [CK11, CFZ21, GLO10, HO17, Kun01, LRS12, MR15, MR96, MXO13, MS19, MP18, OS09, OP11, RNT26, ZC14]. **six** [CMP07b]. **six-dimensional** [CMP07b]. **sixth** [CLM18b, CLM18a]. **sixth-order** [CLM18b, CLM18a]. **size** [BS00, GIKV21, NH26, WMW21]. **skew** [DFS+24, PP24]. **skew-selfadjoint** [PP24]. **skew-symmetric** [DFS+24]. **skyrmion** [HPP+19]. **SlabLU** [YM24]. **sleeve** [Bei23]. **slice** [AAPCC24]. **slice/feature** [AAPCC24]. **slipping** [ATS19]. **slits** [KNV23, San15]. **slope** [WlL26a]. **Small** [Sch23, BGH15, CKK12, NSS04]. **SMMP** [BD93]. **Smolyak** [Pet00]. **Smooth** [AS02, BLP19, BST24, BK96, Car95, GLX23, HBMY14, JSSE97, KV21, KR19, LP14, MM00, Par22, RZ10, YX24a, ZLPX23]. **Smoothed** [RQS26]. **smoothing** [BB07, FJ99, Fas99b, MST05]. **Smoothness** [Osw04, Pra98, CSW14, FBCR13, Li04, MT98, SRFH12, TD21, WYW11, ZD18]. **snapshot** [ASU17]. **snapshots** [GHLU19]. **SNE** [SQ26]. **Sobolev** [CLCH19, DG16, FY13, Han06, KL07, LYY13, PR19, Rei24, Sch26, VLV26, War13]. **Sobolev-type** [KL07]. **Software** [WLPV15, CKP13, Mac94, ZBT+22]. **solidification** [PCM+96]. **solidification/melting** [PCM+96]. **Solution** [FH05, LST11, ADG17, ALS24, BPW95, BF11, BA15, Bra01, Cum96, DPS93, DMMS11, DLP98, EHS02, EJ97, FKP26, GM14, HH19a, KS17, KC16, LZ26, Mar94, Pen98, PF23, WZ19, Wat94, ZMQ23, ZVW95, ZYY16, ZW25]. **Solutions** [Han06, AC05, AMS22, AB23, Ant18, ATS19, AGS24, BBT25, CLZW13, CJN18, CN96, ER99, FK98, HZZ20, HBM03, JLZ08, JN18, KK05, Kim06, KF03, LP21, Li05b, Li08a, Li08b, Li09, MNN25, Mur08, RW26, RL07, Ryn00, She13, SB22, WZ10, XH13, Yao16, ZSB01a, ZV08]. **Solvability** [HS08]. **Solvable** [Wat96]. **solve** [ARPR01]. **solver** [Ben97, Cai02, GM22, KS23, LD22, RS19, VMR26, XZZ26, YZ13, YM24, ZGV22]. **solvers** [AB97, BBB+16, HPS19, HH19b, KP95, KCCV23, Sch15, SW96, vdHdS97]. **Solving** [CWW24, DJZ25, Fas99b, HS13, JM00, LM14, PC17, Sch09, WLW23, WK20, AC00, BSK19, BBF+24, sCLC13, CG26, CMZ26, CJ24, Cul96, DM19b, FYZ25, HLC26, HQHV20, HJYZ23, Li05b, LSXZ15, LW26, LJ18, LBCZ18, LLY12, MP18, MC23, MT26, MS00, MMNM23, SLC26, TLG+22, TQ24, TQ17, WHS18, XYZ21, Yao19, ZT14, ZCL20, ZhXpZ16]. **Some** [CHM18, DT96, Dou94, GVSLN96, KY01, MN00, CLM96a, CKP13, Dai16, DS01, HX17, HLL25, Kle21, Le 00, LT98, LZZ09, LPSSP00, Peñ11, RT14, SW98, TX19, ZQS22, dCFCF20]. **source** [BBB21, CJW22, JLW20, WLL26b]. **Space**

[CCM26, GHJZ23, BLP02, BV24, BKK17, CGM01, DKMT20, FS94, Far10, FM18, FYZ25, Fus08a, Fus08b, GG16, GM24, GHLU19, HN18, HD20, HP24, HK21, HT11, HLUT26, KCW17, KJ09, LSY24, NV10, Pin04, RS19, RM19, She13, SZJ21, Spe23, SvVW22, SLC26, TH19, TZ07, Yao16, YZLL24, ZCL20, ZD16]. **space-adapted** [GHLU19]. **space-fractional** [DKMT20, FYZ25, SLC26]. **Space-time** [CCM26, GHJZ23, BV24, GM24, HK21, HLUT26, LSY24, RS19, SZJ21]. **spaced** [LP14]. **Spaces** [GH03, AS08, BGM93, BMP+19, BB25, CLLS06, CMP07b, CS06, CS03, CG10, DST04, DS00, Don19, FY13, GHdN12, GJS14, Han06, HHS04, Jia95, KV21, Kni24, LYY13, LT98, Lut04, MZ22, Maz99, NS21, NSW16, PR19, Rei24, RY16, SS16, Sch26, Spe17, Sun08, Sun10, Tad19, Tem01, Tem07, TMH21, WYW11, XLW26, ZRR23, ZWDD16, ZD18, ZN18, dB07, vdMNS03]. **spanned** [dB07]. **Sparse** [BD93, CCH+11, CP15, EMU26, Fli18, GKS19, Hem95, JLM19, WW12, BNR00, BF11, BZI19, BKP20, FRW25, Gut21, KKP19, KL15, MR15, NBL11, PWL20, PO24, PGB15, Pla00, SU12, SJJL15, XLL24, YCQZ24, YM24, ZTHW22, Hem96]. **Sparse-grid** [Hem95, Hem96]. **sparsification** [SO20]. **sparsity** [BZI19, BDMR10, FRT09, GN08, Lar18, MMP13, ZLH+24]. **Spatial** [CC24, CP04, FaKS02, FZLZ21, FL23, HHKS24, HS20, JLW20, Leo02, PO24, PFMS05, WW19, WLL26b]. **spatial-dependent** [FL23]. **Spatially** [LG26, GZW18]. **SPDEs** [KK20]. **special** [BOP+15, CHY10, Tom96, XY12]. **specified** [FM18]. **Spectral** [Fur26, GMRS97, Gu19, Gu20, yGSlX03, JL97, MS18, Smo07, SLC26, ACH10, AHC11, BK16, CJX17, CP14, CCMM21, CP15, CGW13, DY10, Gu17, yGW07, yGjW10, GW21, Gut21, HL06, HSZ24, HX17, HY18, HS16, HW19a, JZ24, JSW20, Lee21, Lep23, LY07, LZ20a, LS20, LMV11, LWL17, LL07b, LBCZ18, MFB+11, MSL21, Möß10, Mur08, PO24, PPH+21, WWX18, WW19, XZ24, XLW26, lXyG02, gYyG12, ZP06, ZP24, Zam26, ZJZ21, ZL21, Zhu15]. **spectrum** [FMPS13]. **sphere** [BC94, DST04, DG13, FM14, FM04, HKR04, HR17, HWZ23, HJ23, KN14, KNQ16, LW14, LM14, Leo13, Leo02, Li08a, MNW99, MNPW00, MNW04, NW04, Pot04, PP23, SW04, SS08, SM99, WS01, Xu04a, Xu04b, zCFX07]. **Spheres** [Noa02, Fas99a, GMBS23, HP24, KF19, Kun09, Le 05, Luo99, NSW98]. **Spherical** [FW96, BMK15, DG16, FM14, HL08, Hes09, HW12, IP15, Le 05, NS04, PTC12, ST23, WWX18]. **spheroid** [CP15, LST11]. **spin** [AMPT22, CLM02]. **spin-polarized** [AMPT22]. **Spline** [Jia09a, JF02, AS08, BS05, ČF11, CHRX06, CMR22, DS00, DS01, DX10, FGS16, FP99, Flo94, Gér19, GS25a, GJS14, KMSV24, KV21, KK99, KvD01, LW04, Leo02, MS07, MJM23, MXZ08, MXY13, MH17, PWL20, QX21, Rem12, SS96, Sor18, Spe17, SZ09, TMH21, Wal95, YZLL24, ZWDD16, ZD18]. **splines** [AF96, AHHR16, ANSZ17, ANZ23, BR13, BL99, CDPS22, CM12, CGR13, CH22b, CKM99, DL98, DZ04, DOZ94, FH20, GSS22, GO05, JKLY13, JL06, Joh13, KLNS95, KL04, KL07, KP04, Kva14, LL98, LS98, LLS95, Leo02, LM06, MR96, MSS02, Maz01, MNW96, NS04, NSS04, NZ04, NSZ04, PTC12, Plo95, PW94, Sch04, SS04, SS14, Spe25, Str95, TD21, War13, Yoo01, ZB99, Zhe06, ZA10, dVR19]. **split** [AKKN22, FaKT22, HH15, TLG+22]. **splits** [AS02]. **Splitting** [BCZ23, HZHL12, XWL13, HH16, HHX18a, HHX18b, NH26, nCV13, ZT14, ZPY15]. **splittings** [GO95, WMB13]. **spots** [Kle21]. **square** [BD21a, BD21b, SW10, Wan23a, Wan23b].

Squares [BNPP20, JF02, ALS24, CHY11, Dav23, FÁG19, FHN94, HP24, HLUT26, LK05, Sto96, Tom96, WK93]. **SRLW** [HWZ22]. **SSOR** [Bai99]. **stabilisation** [Mat09]. **stabilities** [LMYL19]. **Stability** [CK03b, CS19, DS10, DMBH24, LS20, NSW98, WMW21, ZV08, ZQS22, ARAK09, AMM20, AV15, BD21a, BD21b, But97, CMP23, DHK98, DP13, ER99, Fus08a, Fus08b, HJYZ23, JS95, Kei95, Kun09, LG26, Low05, MN15, MB96, MNPR06, PST08, QYY26, XB05, YXM23, PS98]. **Stabilization** [CMR22, AKS23, HT12, JJLR14, KP18, LFL22, NV10, TL18, TZ07, YX24a, dFGAJN18]. **Stabilized** [LYZ26, Ye00, BQRB13, BBB22, CLM18b, CLM18a, DTZ24, GO26, HD24, JY22, KLS19, LC09, LC13, MU14, MN24, MNN25, SI15, SXWG22, XY15, ZT15, ZQS22, ZS24b]. **stabilizer** [Kum23, YZ21]. **stabilizer-free** [Kum23, YZ21]. **Stable** [BH15, CDPS22, CCLM21, HLUT26, LP04, XL10, YY25, BD18, BGT26, CZ20, GHV25, GJS14, GZW18, GWC24, GGRBRG21, LYF$^+$21, PR26, She13, SJJY21, TGA96, WQP23, XPY26, Ye04, ZYB18, ZY20, ZPY25, dFGAJN18]. **stage** [LW23]. **stages** [PR26]. **Stair** [lWyG06]. **staircase** [Zhu19]. **standard** [BDD06]. **star** [GMB97]. **starting** [CLM03]. **State** [AKS23, Ang00, CLM18b, CLM18a, DMMS11, ER99, GHKL18, HMX22, HO15, NP24, ZW25]. **State-dependent** [AKS23]. **Stationary** [LLY06, AK25, Bre95, Bru23, CGR11, DLU19, HD24, Han24b, JKLY13, LC09, MS12, ZH25]. **statistical** [BEG17]. **statistics** [HSV09]. **status** [FL24]. **steady** [Ang00, CLM18b, CLM18a, DMMS11, ER99, HMX22, MG19, ZQS22]. **steady-state** [Ang00, CLM18b, CLM18a, DMMS11, HMX22]. **steam** [HH19a]. **steel** [GN13]. **steerable** [FC25]. **Stefan** [HXC10, JL19]. **Stein** [AHPP24]. **Stekloff** [YZB20]. **Steklov** [KP98, LLZ10, VR26, YXX22]. **step** [BS00, CLM03, DLM26, Han24a, HMQ22, HFH15, HJYZ23, LSXZ15, MP18, NH26, WMW21, ZS24b]. **step-size** [BS00, WMW21]. **stepping** [FQH25, JlLZ20, JZ24, KC16, VK96, WY20, ZPY15, ZY20]. **Stepsize** [CHMR97, Hal95, Wil98]. **stepsizes** [LY21]. **Stieltjes** [Lee21]. **stiff** [Ben97, BS97a, BS00, But97, CB25, EJ97]. **Stochastic** [ACM20, ÇY23, Han24b, BCZ23, BNPP20, BD21a, BD21b, CCG10, CJX17, CCK20, CCDL20, DX20, DM19b, Fur26, GQL24, LZ25, LSZ26, MM00, QZX23, SU12, TX19, WW24, WC25, WSM13, WZ20b, YL24b, ZL24, Zhe23]. **Stokes** [LGC$^+$20, SDZ26, AMS22, An20b, Ang00, APV14, AR20, BBB21, Bre95, BR15, CHM18, CR23, CCG10, CLL08, CS19, CL16, CMM21, CT17a, CGS93, DFOS23, DM19a, DKK22, DS24, DNS21, DTZ24, FF95, GAN20, GHKL18, GJMY19, GJW20, HD24, HL06, HQR23, JJLR14, JY22, JK08, KL00, KCCV23, Lep23, LC09, LG13, LC13, fLL05, LY08, LC19, LLZ25, MRH15, MN24, MNN25, MY17, Nit22, PCM$^+$96, WY16, WWH21, WaZL24, XY15, YZ21, ZVW95, ZT15, ZCL20, ZH25, ZQS22, ZZD25, dFGAJN18]. **Stokes/Darcy** [CHM18]. **Stokesian** [BLV20]. **Straight** [San15, DD94]. **straightforward** [KLY26]. **Strang** [GW17, WL05]. **strategies** [GS22, MN15, WLB22]. **strategy** [ARPR01, CGR13, GPT17, Hal95, LLY12]. **Stray** [BK24]. **streamers** [Ram18]. **streamline** [KY01]. **streams** [GSS22]. **strength** [CJW22]. **stress** [GG16, Lee16]. **Strictly** [Luo99, Pin04, SM99, GP95]. **strip** [KNV23, lXyG02]. **Strong** [LSZ26, QYY26, WC25, DGMM16, GS19b, MGSS22, SJJY21, TX19]. **Strongly** [GJS14, BMLC26, OS09]. **structural** [ARPR01, CCN$^+$16]. **structural-acoustic** [ARPR01]. **Structure** [BGW21, SGK26, AB02, AW24, GZA20, HBH24, JSW20, KBL22, KK26, PSW24,

Wat96, YL24a, ZJ23]. **Structure-preserving** [BGW21, SGK26, AW24, HBH24, JSW20, KBL22, PSW24, YL24a, ZJ23]. **Structured** [BKN11, BGW24, GGW24, ZL20, BZI19, GDB24, GN08, Kim06, Lar18, MMP13, ZPR03]. **structures** [JN18, KC16, LL25]. **Studies** [LZZ09]. **study** [CGDHRÁ+19, CHS20, DM23, EHV17, ILHH22, KKK24, Świ19, Zam26]. **Sturm** [GM17, Ram18]. **sub** [SM24]. **sub-diffusion** [SM24]. **subdiffusion** [MS22]. **Subdivision** [CD15, Gon93, JZ04, Jia95, LP10, ADL11, CJ07, CCMM21, CZ19, CGR11, CGR13, CCS16, CGRS15, DM93, De 06, DLUS17, DLU19, DS13, FBCR13, GRV22, Gér19, GO05, GMS12, Han24a, HW19b, JKLY13, LLY06, Lev99, MS12, Moo17, MH17, Nie07, Osw04, PK94, Pra98, PR99, RS01, RW21, WYW11, Zhe06, ZA10]. **subdomain** [CHS17]. **subgradient** [GH16, XLL24]. **subgrid** [ZQS22]. **submanifolds** [Mai20]. **subpopulation** [Tyg23]. **subproblems** [FW25]. **subregularity** [AAFV19]. **subsonic** [KvL95, Li25, ZW22]. **subspace** [BPK96, DFS+24, GO95, PS23, XWL13, ZVW95]. **subspaces** [Atr12, BH19, BR23, GDB24, HLT11, LO08, LL11, SZ09]. **substructuring** [HH19b]. **suffer** [Spe23]. **Sufficient** [FS07, CZ19, MNPR06]. **sum** [CMP07a, Han10, JGW15, TZ05, WFL02]. **sum-of-exponentials** [JGW15]. **summaries** [Joh13]. **summarizing** [CL22]. **summation** [Pré94]. **sums** [Tor16, ZP19]. **Sumudu** [PM17]. **sup** [dFGAJN18]. **Super** [LL13, LT12, BlH23, ILHH22, JLM19]. **super-resolution** [BlH23, ILHH22, JLM19]. **Supercloseness** [Kum23, ZL17]. **superconductivity** [GS18]. **superconductors** [HX02]. **Superconvergence** [CZZ17, HSY16, LY08, Zha14, ZHY19, Gom95, HZZ20, HMM21, LLZ10, LL12b, MNC16, YL24a, YZ24, ZSB01a]. **Superconvergent** [YTL+20, YS23]. **superlinear** [GGRBRG21]. **superposition** [Nee96]. **supersmoothness** [FH20]. **SUPG** [Kno09, MNN25]. **SUPG-stabilized** [MNN25]. **Support** [EPP00, CX06, CKK12, NSS04]. **supported** [CL16, CKK12, CHSS03, Hub12, HJ25, JJK13, JS99, Lai06, LLS95, Len96, Sch26, Wen95, Wu95]. **Supports** [CTZ02, KL15]. **suppression** [LO08]. **Surface** [Kra02, ABMM19, BX94, Ble07, Don20, EX20, FM14, FHN94, GO26, GN13, HFH+07, Jia11, KBL22, LK26, PCM+96, ZL16]. **surface/surface** [BX94]. **Surfaces** [JF02, SR02, ALADH+19, BST24, BT24, CW16, CC94, CLM02, CL18, DP13, Flo94, GU02, HFH+07, KK99, KP04, Leo02, LPSSP00, LLC26, MT98, MJM23, O'N18a, PGM09, Pra98, PR99, RS01, ST23, VR26, WK20]. **surrogate** [BZ18, HQR23, KKL+22]. **surrogates** [EH24, HSZ24]. **survey** [CBK01, RT14]. **suspensions** [KCCV23]. **SVD** [WCL24]. **SVD-based** [WCL24]. **SVM** [ZJ06]. **sweeping** [Sto17]. **swelling** [LR19]. **switched** [GPAF18]. **Sylvester** [ZT14]. **symbol** [GP14, Plo95]. **symbols** [Nie07]. **Symmetric** [Han98, Han10, Jia03, Bai99, CMZ26, DFS+24, EEK21, JKLY13, JS95, Lee16, LW26, MC23, Nit22, WYW11, Zho26]. **Symmetric/Antisymmetric** [Jia03]. **symmetries** [GH99]. **symmetry** [AD08, AG98, Awa13, BJMR24, CGKK21, Jia11]. **Symplectic** [FKP26, NS21, DDP14, Ram95]. **synchrosqueezing** [LJL20]. **synthesis** [ZYY16]. **System** [Tan17, AMPT22, AK15, AGGAV+19, BBB21, BH23, BR15, DJZ25, DFOS23, DMS22, DLM26, GHV25, GQL24, GLO10, Gu17, Gu19, Gu20, HLC26, HYHH21, KA97, LZ20b, LYF+21, LGQ24, Li25, LHH23, LG26, MRH15, MXO13, MS00, OS09, SC08, WaZL24, ZW22, ZJ23, ZL21, vdHdS97].

Systems [CMP03, ALADH+19, AMM20, AMS22, AZW15, Bai99, BGT20, BB26, BOP+15, BFH+18, BCS19, BDYY20, BW20, BGW21, BG24, BGW24, Bes03, BMP+19, BKK17, BDM20, CS93, CCDL20, CG26, CEHK18, CTZ02, CR08, CKK16, CHL17, CJ24, CET21, Dad17, DHGA23, DLP98, DFS+24, DF26, FE15, GPAF18, GGW24, GDB24, GKM+20, HBH24, Hol01, JWJ23, JL19, Kac18, KKLY10, Kür18, LW26, LZZ09, Liu99, LZ26, LX26b, Mar94, MV01, MT26, MS98, NW22, PDB24, RTV21, RWB+24, RGB18, Ryd19, SXYY06, SW04, Smo07, Tal19, TBG18, Tor16, UG19, WMY13, WMB13, WOBL17, ZAL26, dH94, dCB07]. **systolic** [AH96]. **syzygy** [CG19]. **Szego** [CMP07a].

T [ZD18, TMH21, ZWDD16]. **T-meshes** [ZD18, TMH21, ZWDD16]. **Table** [Mac94]. **Table-based** [Mac94]. **tackling** [GS25b]. **tangent** [HPP+19]. **tangentially** [MU14]. **task** [LMWX13]. **Taylor** [Del17, fLL05]. **Taylorlet** [Fin19]. **Tchebycheffian** [PW94]. **technique** [BHT11, CS93, CMZ26, FP99, Gil17, KLY26, KH05, Ren09, SFDE15]. **techniques** [BDN26, LZ21, Sor18]. **technology** [Tal19]. **temperature** [APK18, LK20, TTC21]. **tempered** [IY22, LD16, Qiu23]. **tension** [BRR18, CKM99, MR96, ZL16]. **Tensioned** [LM04]. **Tensor** [FP98, GO95, MRS22, MHR21, AAPCC24, CW19, CP15, CSZ26, DDLL23, Flo94, ILHH22, KK99, MB20, MJM23, RS19, SMK22, SSK24, WCL24, YF23, YL24b, ZLH+24]. **tensor-based** [ILHH22, SMK22]. **Tensor-product** [FP98, Flo94, KK99, MJM23]. **tensorial** [ZW23a]. **tensors** [BG26, WBY24]. **tenth** [TBD94]. **tenth-** [TBD94]. **term** [CC22, ILHH22, JLW20, Qiu23, RL07, Tem98]. **terms** [BBB21, CC94, Lóp18, MG19, Tha19, XZ03]. **Ternary** [GLM23, CCMM21]. **tessellations** [GS10]. **tesseral** [FM04]. **test** [Tad19]. **tests** [Mac94]. **tetrahedral** [FPT06, Kun01, SS04, XZ24, XZ25]. **Tetration** [Pau19]. **tetris** [CP14]. **their** [ByLl01, CLLS06, CSS98, yGS08, HLT11, HJYZ23, JGW15, KF19, NSW07, PŠWX03, PP24, RSA14, She08, Wat96]. **themes** [Hof06]. **theorem** [CKBP11, GGAVGG+19, Sch21]. **theorems** [GP14]. **theoretic** [RJ00]. **Theoretical** [BZ18, CBLZ26, GRdSA19, ILHH22]. **theoretically** [Wie97]. **theory** [AM14, LL99, LX26b, LS05, MNPR06, Ock96, Świ19, YZ23, dLdDSM07]. **there** [Sch21]. **thermal** [LK20, TBD94]. **thermistor** [YS23]. **thermo** [BBF+24]. **thermo-electromagnetic** [BBF+24]. **thermoelastic** [LG26, RCJ+23]. **thermoelectrical** [BGMS07]. **thin** [DRV26, DD94, FP99, Joh13, LQW18, Ryn00, Yoo01, ZB99]. **thin-plate** [Joh13, Yoo01]. **third** [AK25, BM00, BD18, PM17]. **Thomas** [HCYY20]. **three** [BS05, BKM+21, GL23, GDMS21, HHX18a, HHX18b, HSY16, HH19b, JR23, JSW20, LLS96, LL98, LG13, LYF+21, LZ25, LL07b, MSS02, O'N18a, RL07, WHS18, ZS24b]. **three-block** [HHX18a, HHX18b]. **three-dimensional** [GDMS21, LG13, LYF+21, LZ25, WHS18]. **three-direction** [BS05]. **three-field** [BKM+21]. **three-step** [ZS24b]. **threshold** [Lee21]. **thresholding** [AL13]. **Tight** [BF03, BS06, CK03a, Jia03, PŠWX03, Wal25, CCSS09, CHSS03, FWW06, Jia09b, LMO14, PWL20]. **Tikhonov** [HT11]. **tilings** [CTZ02, FPT06]. **Time** [DD94, TB16, VK96, AMK19, ALZ02, AGGAV+19, ANSZ17, Awa15, BlH23, BB26, BBF+24, BF11, BDYY20, BV24, BKM+21, CC22, CCM26, CCP22, DFOS23, DLM26, DHH25, FMP22, FKP26, FZLZ21, FQH25, Fur26, GL23, GS18, GQL24, GG06, GM24,

GZW18, GHJZ23, GLS25, GPG15, Han24b, HQR23, HK21, HLUT26, HY18, HS20, JlLZ20, JZ24, JLW20, KS23, KC16, Kür18, LSY24, Lem09, LA22, LSY22, LZ21, LZZ09, LHY08, LJ18, LZCW21, LZlL26, LL07b, LWX19, LJL20, MNC16, Onc14, PM17, Rau05, RS19, RST+14, Ryd19, SM24, SZJ21, SvVW22, TH19, gTpM02, TTP25, TGA96, VW02, WW19, WlL26a, WY20, WLL26b, WLW23, Xu14, XZZ26, YX24a, YZLL24, YH25, ZAL26, ZPY15, ZY20, ZJZ21, ZXL24, ZZCC24, ZCY20, ZW12, dFGAJN18, HL06]. **time-concentrated** [GG06]. **Time-dependent** [TB16, BKM+21, DFOS23, GS18, GQL24, HQR23, LZZ09, TGA96, dFGAJN18]. **time-domain** [GL23, LSY22, VW02]. **time-filtered** [WlL26a]. **time-fractional** [AMK19, FZLZ21, Fur26, HS20, JlLZ20, JLW20, LZCW21, LZlL26, PM17, TTP25, WLL26b, WLW23, YZLL24, ZAL26, ZJZ21]. **time-frequency** [LA22, Onc14, RST+14]. **time-harmonic** [CCP22, FMP22, HY18, LHY08, LWX19, YX24a, YH25]. **time-invariant** [BDYY20]. **Time-marching** [DD94]. **time-periodic** [BB26, LZ21]. **time-space** [TH19]. **time-step** [DLM26]. **Time-stepping** [VK96, FQH25, JlLZ20, JZ24, ZY20]. **time-varying** [BBF+24, LJL20]. **timer** [ALZ02]. **TM** [LN14]. **Tocher** [LL98]. **Toeplitz** [WLW16]. **tokamak** [LAG+24]. **tolerance** [CHMR97]. **tomographic** [GL13]. **tomography** [HLN12]. **tool** [Sch15]. **tools** [AEI25]. **Top** [DMMS11]. **Top-level** [DMMS11]. **topography** [ACM+22, CT17b, Don20, IL16, TTC21]. **Topological** [BCMR24, Cho95, HLN12]. **topology** [HFH+07, LYZ26, ST23]. **Toric** [Kra02]. **torus** [Pot04]. **Total** [BL09, LM06, AHL25, BCE+09, DGK15, DT12, FRT09, JZ10, KPY09, Maz01, PZ16, ZPR03]. **totally** [GP95]. **trace** [GO26]. **traces** [HJH12]. **tracking** [Tim21]. **tractability** [KSUW23, NSW16]. **traffic** [BCO24, WBGG22]. **train** [CW19, SSK24]. **Training** [BE00, WFL02, KKP24]. **transaction** [ALZ02]. **transfer** [BGW24, HXC10, PCM+96]. **transform** [ANSZ17, BMB14, CCH+08, DLP98, Fin19, FW96, GLS25, Lee21, LL12a, LJL20, MXY13, PM17, RST+14, SL05, SS13, TZ03, YCQZ24, ZS21, LBI25, SF14]. **transformation** [BB26, SFDE15]. **transformations** [FWW06, PW24]. **transforms** [ADL11, DMT03, Dam07, FC25, HKR04, KXL24, Kei95, LM14, PST08, Ste98]. **Transient** [BGMS07, Awa15, BMSR+16, CT17a, LC13, VW05]. **transition** [HF19]. **translates** [AM14, CL12, GLS25, LL99]. **Translation** [CGKK21, LSLS14, MXZ08, vdMNS03]. **transmission** [CJW22, DRS08, HKR21, HJH12, LX26a, WBY24]. **transport** [AGU25, BDM20, EBS22, GS22, HPS19, KBL22, LP21, LAG+24, Moo17, NKL+19, PM19]. **transport-based** [PM19]. **transport-hydrodynamic** [NKL+19]. **transportations** [LLLH23]. **transverse** [HW19a]. **trapezoidal** [IRT23, Nit22, Pla12, WM21]. **trapping** [MGSS22]. **traps** [ZD17]. **traveling** [Wan08]. **travelling** [She13]. **treatment** [Bes03, Hau97, Hol01, SRC25, Tha19]. **Tree** [BDKY02, DHV24]. **Trefftz** [BDM20, CHP19]. **Tresca** [DKK22, DS24, HKRS14]. **triadic** [ZA10]. **triangle** [AS02, yGW07]. **triangles** [BDN26]. **Triangular** [LLS94, CLZW13, DP13, SL05, WQP23, XZ24, ZL17, ZW20]. **triangulated** [NSZ04]. **triangulations** [FPT06, NS04, Rem12]. **Tribute** [Sil99]. **Trigonometric** [RM19, CHS20, DLU19, DS13, KLNS95, LN14, LWY06, Pot04, Rau05, RSA14, SPS21, Spe25]. **trimmed** [HFH+07]. **triple** [WHS18]. **triply** [Tor16]. **trivariate** [AS08, LL04, ZD18]. **tropical**

[CWW24]. **troubled** [ZQ13, ZG16]. **troubled-cell** [ZQ13, ZG16]. **truncated** [CGW13, DKK22, HCF$^+$21, Wan22, ZL24, ZTHW22]. **truncation** [BDYY20, BG24, GPAF18, Kür18, RDEG24]. **trust** [FW25]. **trust-region** [FW25]. **tryptophan** [CGDHRÁ$^+$19]. **tubal** [AAPCC24]. **tube** [KRP19]. **Tucker** [AU20, CW19, CWY25]. **Tucker-adaptive** [AU20]. **tumor** [PLRGVR22, ZST19]. **tuning** [Nes16]. **turbine** [FZ19]. **turbulence** [HF19]. **turbulent** [LAG$^+$24, SBZR19]. **TV** [MSXZ13, RWT13]. **TVD** [BD18]. **twelfth** [TBD94]. **twelfth-order** [TBD94]. **twist** [FM18]. **Two** [ASS10, CLM03, CLCH19, CCH$^+$08, CH22a, HN18, HD24, HCYY20, HL21, Jia03, Plo95, RF19, SDZ26, ZH25, ZWZ19, BNP14, BM00, BJMR24, BDFS19, BSSM22, Bre95, Bün11, CGDHRÁ$^+$19, Che02, CS94, Dad17, DLS14, DF26, FP99, GDMS21, GJW20, GGRBRG21, yGmW98, HKRS14, HT12, HCH20, HFH15, JY22, JN18, KS17, KF03, LSY22, LS19, LD07, LK20, MR15, MS18, MR96, MS19, OS09, OP11, QX21, QYY26, RH15, Sto25, Sun14, SLC26, Tha19, WZJ18, WG19, WZzS21, XZ01, YZLL24, YZ24, YM24, ZZP23, ZHzSR21, ZW25, Zho25, ZQ13]. **two-** [GDMS21]. **two-body** [HKRS14]. **two-by-two** [DF26]. **two-cell** [Dad17]. **two-derivative** [QYY26]. **Two-dimensional** [CCH$^+$08, BM00, BJMR24, GJW20, JN18, KF03, LK20, MR15, QX21, SLC26, ZHzSR21, ZW25, ZQ13]. **Two-grid** [CLCH19, CH22a, HD24, HCYY20, SDZ26, BNP14, HCH20, Sto25, XZ01, ZZP23]. **Two-level** [ZH25, Bre95, HT12, YM24]. **two-phase** [BDFS19, BSSM22, Tha19]. **two-point** [yGmW98, KS17, LS19, MR96]. **Two-scale** [HL21, Plo95, CS94, RH15]. **two-sided** [MS18]. **Two-step** [CLM03, HFH15]. **type** [AN20a, Awa15, BR07, BS97b, BS97a, BS00, CGHK23, Chr15, CKP13, CSWP99, CN96, Cum96, CT17b, Dar03, DHO16, DOZ94, DY01, DTZ24, ECS18, Fra99, GO95, HH19b, JMO00, KXL24, KL07, LLS94, LLS96, LC21, LT12, LZ26, LL07b, MSZ06, Maz98, PSNP11, RWT13, Sab04, SS04, SK24, SS96, TTC21, VNS18, WZL17, Wan23a, Wan23b, WC25, Xu14, Yan01, Yan03, YZ13]. **type-4** [SS04]. **types** [CGDHRÁ$^+$19, LL98].

ultra [Jon17]. **ultra-precise** [Jon17]. **unbiased** [CC24, DM19b]. **unbounded** [BC20, CJN18, GZ13, LHY08, QWS24, YY25]. **uncertain** [ÇY23]. **Uncertainty** [GY00, GS22, GPS21, HSSS18, LSLS14, MSST14, RT14, WBGG22]. **Unconditional** [CLC16, WZJ18, YL24a, LMYL19]. **Unconditionally** [LZ20b, LGN22, SY19, YS23, WQP23, ZYB18, ZY20]. **unevenly** [LP14]. **Unfitted** [GZZ25, YX24a]. **Unified** [ZW23a, Bar03, Grä12, HSZ24, Lee16, MN24, Wal95, ZW20]. **Uniform** [Che06, CLZW13, DGS18, Li25, LW03, Ram18, TZ07, ZW22, ACM20, Atr12, ANSZ17, DG16, DY01, HO17, Lev99, LZ25, OP11, PRS24, Rem12, TMH21, TTP25, ZD16]. **uniform-grid** [DG16]. **Uniformity** [LW03]. **Uniformly** [KXZ04, LG26, Par22]. **unimodular** [BD10]. **unions** [Grö03]. **Uniqueness** [GP14, JR23, DX20, ZYY16]. **unisolvent** [Cal05]. **unit** [CWLH95, FGMS19, GVSLN96, LM14, Leo13, Li08a, Li08b, Xu04a, Xu04b, zCFX07]. **unitarily** [vdMNS03]. **unitary** [DLP98, GLT93]. **unity** [CM12, CGKK21, DHWZ18, HL05, NSS04, ZSHZ15]. **univariate** [AL21, Fra99, GRV22, MH17]. **Universal** [CGG$^+$20]. **University** [New96]. **unknown** [BR22, Wie15, ZPR03]. **unlearning** [HL96]. **unordered** [LS18]. **unorganised** [BLP02]. **unstable** [She13]. **unsteady** [BBB$^+$16, DM19a, FZ19, GJW20, ZXL24, ZZD25]. **unstructured**

[Hag98, Wie97, Zho26]. **unsymmetric** [LLS09]. **updates** [AZW15]. **upwind** [Ang00, Wie97]. **upwind-discretizations** [Ang00]. **usage** [HV19b]. **use** [RSA14]. **Using** [Cas07, Lev99, ZRR23, Zoz15b, AAPCC24, AH96, AP25, BGH15, BGG24, BD18, BMP+19, BLV20, BR22, BR23, CLR19, CGW13, CH22b, Dou94, EHV17, FF95, FGS16, Fin19, FHN94, FS98, GGAVGG+19, GO05, yGSlX03, HFH+07, IUV17, KKK24, KL19, Le 05, LW14, LLY06, Li05a, LN19, LZY98, LWL17, MB20, MNW99, MNW04, PTC12, PSW24, PDB24, RLGGAV19, RWT13, Ryd19, Sch09, SS08, WL12, WZL17, YLBL12, Yoo01, ZB99, ZPR03, ZT15, Zhu15]. **utilizing** [GH18].

validated [HBM03]. **validation** [HL96]. **Vallée** [SU22]. **value** [AG25, ABI15, CWX12, CJW22, EH24, FK98, FYZ25, FK10, FM25, GM14, yGmW98, HWS26, HH15, Kac18, KSWX24, KS17, LKT18, LS19, MR96, RGB13, Rip99, Sch11b, WY20, vdH93]. **valued** [CMSS23, Füh08, Fus08a, Fus08b, GMB97, GKS21, HHS04, IB17, Low05, Sid20, XKY15, Zho25]. **values** [CLM03, Fou23, HX21, KSUW23, MC10, Tyg23]. **Vandermonde** [MX24, Maz98, Tom96]. **Vanishing** [Füh16, BP93, CHR00, CHSS03, CaL06, GT14, Wan19]. **VAR** [ANGV19]. **Variable** [BR13, PW24, An20b, BZ18, Bra01, BS00, CBLZ26, CT17b, DM19a, DLM26, FZLZ21, GM24, Kum23, TTC21, WZ19, Wan19, WMW21, Zen19]. **variable-fidelity** [BZ18]. **variable-order** [FZLZ21, WZ19]. **variables** [GS00, MS12, Xu00]. **variably** [CMP21]. **Variants** [HH15]. **variate** [HCF+21, ZTHW22]. **variation** [AHL25, BL09, BCE+09, CGP95, DGK15, DT12, FRT09, JZ10, KPY09, LWW21, PZ16, QW11]. **variation-penalized** [BL09]. **Variational** [CW16, CJ24, ESTW19, KL19, SZJ21, AHPP24, Bad19, CSZ26, HD20, JK08, KL16, LB93, OBS15, Par20, SBZR19, WOBL17, YKZ19, dLdDSM07]. **variations** [Hof06]. **varying** [BBF+24, BCS19, HKW25, LJL20, Xia13]. **Vector** [ABD08, EPP00, Sid20, AG25, AC00, BM00, CX06, Füh08, GO05, GMB97, Han06, Rob98, Sal98, Sor18, WWX18, dVR19]. **vector-valued** [Füh08, GMB97, Sid20]. **vectorizing** [Dou94]. **Vectors** [HM03]. **velocity** [CS19, Lep23]. **velocity-pressure** [Lep23]. **VEM** [ALV26, CR23]. **Ventcel** [SXWG22]. **Verified** [Miy19]. **Verlet** [BS24]. **Version** [CHP19, CH22a, Don19, GH06, GW21, Jan98, WY17, WY20]. **versions** [Sid20]. **versus** [Cul96]. **vertex** [HH19b, RJ00]. **vertex-modified** [RJ00]. **vertex-related** [HH19b]. **via** [AHS20, APPP24, BG26, BH23, BRSV15, BJX09, BKR25, CDPS22, CMP21, CP14, CWY25, CDP25, DJZ25, Dam07, FY13, FGO14, Gat21, GLM23, GS10, GL13, HS13, Kos15, KK26, LM04, Las16, LM14, MHR21, MS04, Moo17, NP18, PR15, PF23, Ram18, SF14, WWX18, WW19, WFL02, ZR24, ZA10, Zho25]. **vibration** [ARPR01, DRV26, LMRV23a, LMRV23b, LQW18, MM20]. **vibrational** [PDB24]. **vibrations** [Ara20]. **view** [MSW+22]. **Virtual** [AN20a, ANN22, BKM+21, CMM21, DAN25, DRV26, DL23, LMRV23a, LMRV23b, LFL22, LC19, LR25, LSZ26, MM20, MU14, MN24, MNN25, SK24, SBMS22, WWH21, ZZC20, ZRW26, aZWL23]. **viscoelastic** [AP25, Kum23, LX26a, VMR26, ZPY15]. **viscoelasticity** [JS21]. **viscosity** [GT14, ZPY15]. **viscosity-splitting** [ZPY15]. **viscous** [SJJY21, WZzS21, ZZL+24]. **visualization** [SQ26]. **Vlasov** [AK15]. **Voigt** [BNP14]. **volatility** [Zhe23]. **Volterra** [BJX09, DX20, DES21, Gu17, Gu19, Gut21, HS16, Pla12, Qiu23, SW96, SC08, WY17, XH13]. **volume**

[ALS24, Ano16, CDP03, CLZ02, CWX12, CEHK18, CLM18b, CLM18a, EBS22, FKT+19, GQ22, HZZ20, Hem95, Hem96, HR17, HW18, KH05, KHM16, LN14, LC09, LC13, LGC+20, LZL23, LL10, LL12b, Noe95, PSW24, PP23, Wan22, WQP23, ZST19, Zha14, ZT15, ZYC19, ZCB21, ZW23a, ZW20, Zho26]. **volume-preserving** [LLLH23]. **Voronoi** [DQS20, GS10, PP23]. **Voronoï-based** [PP23]. **Vries** [dLL19]. **vs** [EMU26].

Wachspress [DOZ94, FK10, KB15]. **Wannier** [GZ25]. **Warping** [ZB99]. **Wasserstein** [RQS26]. **water** [ACM+22, CT17b, Don20, FL24, KBL22, KKP19, KKK24, TTC21, vdHS00]. **watermarking** [Ren09]. **Wave** [NKL+19, ADG17, Bru23, CR08, FKP26, FL24, GT14, GMBS23, HLUT26, HY18, HX02, JRS15, Kum23, LWX19, MWZZ23, NV10, SM24, She13, SLK20, TZ07, WW19, WKH25, WLL26b, WLW23, YH25, ZP24, ZG16, dCFCF20]. **Wave-based** [NKL+19]. **Waveform** [SM24, vdHv97, HJJV97, LX26a]. **waveguide** [HN18]. **waveguides** [DMBH24]. **Wavelet** [DPS93, DKLT93, GLT93, HR02, JL06, KESR22, TSZ98, AU20, ANSZ17, ANZ23, BS06, BDMR10, CP99, CMX02, CP03, CKK16, DMT03, Dũn09, Ehr00, EGL13, FOW14, FW96, Füh16, Gom95, Kei95, KKLY10, LT98, MSL21, PR19, PL05, PST08, RS19, RSZ11, RWT13, SvVW22, XZ03, Zha05, dVR19]. **Wavelet-based** [TSZ98]. **wavelet-Galerkin** [Gom95]. **wavelet-in-time** [SvVW22]. **Wavelets** [Pla95, CT05, ČF11, CHR00, CS94, CSW96, CaL06, DKB99, FM04, GY00, Han98, Han10, JS99, Jia09a, Jia11, KKL03, Lai06, PŠWX03, PST95, PW24, Rau05, Str13, Urb95, WZM21, ZhXpZ16]. **wavenumber** [BCC22]. **waves** [ACM+22, RCJ+23, ZP06, Zam26]. **wavetrain** [She13]. **way** [ZMQ23]. **Weak** [GN01, IY22, Tem00, BC20, Flo94, Kum23, LLC16, LGN22, QL25, RNT26, Tem02, WY16, WWH21]. **weakly** [Awa13, Gu19, HS16, Lee16, Par22, Pla12]. **WEB** [AHHR16, HAS05]. **Web-method** [HAS05]. **WEB-splines** [AHHR16]. **wedge** [SBEH24]. **weight** [BMRS20, Xu98]. **Weighted** [CP14, GQ22, Dam07, ECS18, KLY26, Kva14, LLHYN24, MS16, YKZ19]. **Weights** [ACDR24]. **Well** [ZAL26, CT17b, LWWZ22, Tha19, TTC21]. **well-balanced** [CT17b, Tha19, TTC21]. **well-conditioned** [LWWZ22]. **Well-posedness** [ZAL26]. **Wendland** [CSW14, HJ23, HJ25, Sch11a, War13]. **WENO** [BD18, JN18, LQ14, TQ17]. **wheel** [WCL24]. **Which** [LX26a, MXZ08]. **while** [Dou94]. **Whitney** [SS96]. **Whittle** [BRS13]. **whole** [BKK17]. **wideband** [DMT03, DG13]. **width** [AGU25]. **widths** [DKLT93, UG19]. **wildland** [ABMM19, BKR25]. **Wilson** [ZYC19]. **window** [CJKK18, PT21, TZ03]. **windowed** [SS13]. **windows** [CKK12, ZZ09]. **wire** [DD94, Ryn00]. **wirebasket** [FH18]. **within** [Jon17]. **without** [KXZ04, Par20, WlL26a]. **WKB** [AK25]. **WKB-based** [AK25]. **work** [CP07a]. **Worst** [KS20]. **Worst-case** [KS20]. **WSGD** [HT24]. **Wu** [HJ25].

X [GL13]. **X-ray** [GL13]. **Xu** [WHTZ18].

Young [MRS03]. **Yukawa** [KNQ16].

Zakharov [JZ24, Li25, ZW22, ZJ23, ZWZ19]. **Zero** [JW95, APK18, BD10, Flo96b, GG16]. **Zero-free** [JW95]. **zeros** [VLV26]. **Zeta** [WM21]. **zonal** [FM04, MNW99]. **Zooming** [LSW17].

References

Ahookhosh:2019:LCL

[AAFV19] Masoud Ahookhosh, Francisco J. Aragón Artacho, Ronan M. T. Fleming, and Phan T. Vuong. Local convergence of the Levenberg–Marquardt method under Hölder metric subregularity. *Advances in Computational Mathematics*, 45(5–6):2771–2806, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09708-7`.

Ahmadi-Asl:2024:RLT

[AAPCC24] Salman Ahmadi-Asl, Anh-Huy Phan, Cesar F. Caiafa, and Andrzej Cichocki. Robust low tubal rank tensor recovery using discrete empirical interpolation method with optimized slice/feature selection. *Advances in Computational Mathematics*, 50 (2):??, April 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10117-8`.

Arnold:2015:MFE

[AAQ15] Douglas N. Arnold, Gerard Awanou, and Weifeng Qiu. Mixed finite elements for elasticity on quadrilateral meshes. *Advances in Computational Mathematics*, 41 (3):553–572, June 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9376-x`.

Amodio:1997:POS

[AB97] Pierluigi Amodio and Luigi Brugnano. Parallel ODE solvers based on block BVMs. *Advances in Computational Mathematics*, 7(1–2):5–26, March 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018926314954`. Parallel methods for ODEs.

Ammari:2002:MEP

[AB02] Habib Ammari and Gang Bao. Maxwell's equations in a perturbed periodic structure. *Advances in Computational Mathematics*, 16(2–3):99–112, April 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014402300371`. Modeling and computation in optics and electromagnetics.

Anitescu:2011:APG

[AB11] C. Anitescu and U. Banerjee. Approximation properties of the generalized finite element method. *Advances in Computational Mathematics*, 34 (4):369–390, May 2011. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-010-9159-y.

Ando:2023:POC

[AB23] Alessia Andò and Dimitri Breda. Piecewise orthogonal collocation for computing periodic solutions of renewal equations. *Advances in Computational Mathematics*, 49 (6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10094-4.

Antonelli:2014:GFC

[ABC14] Michele Antonelli, Carolina Vittoria Beccari, and Giulio Casciola. A general framework for the construction of piecewise-polynomial local interpolants of minimum degree. *Advances in Computational Mathematics*, 40(4):945–976, August 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-013-9335-y.

Arandiga:2008:VCA

[ABD08] Francesc Aràndiga, Antonio Baeza, and Rosa Donat. Vector cell-average multiresolution based on Hermite interpolation. *Advances in Computational Mathematics*, 28 (1):1–22, January 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-005-9007-7.

Amodio:2015:ECM

[ABI15] Pierluigi Amodio, Luigi Brugnano, and Felice Iavernaro. Energy-conserving methods for Hamiltonian boundary value problems and applications in astrodynamics. *Advances in Computational Mathematics*, 41(4): 881–905, August 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-014-9390-z.

Ambroz:2019:NMW

[ABMM19] Martin Ambroz, Martin Balažovjech, Matej Medl'a, and Karol Mikula. Numerical modeling of wildland surface fire propagation by evolving surface curves. *Advances in Computational Mathematics*, 45(2): 1067–1103, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9650-4.

Arandiga:2013:NCN

[ABY13] Francesc Aràndiga, Antonio Baeza, and Dionisio F. Yáñez. A new class of

non-linear monotone Hermite interpolants. *Advances in Computational Mathematics*, 39(2):289–309, August 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9280-1`.

Atkinson:2000:FMV

[AC00] Kendall Atkinson and David Da-Kwun Chien. A fast matrix–vector multiplication method for solving the radiosity equation. *Advances in Computational Mathematics*, 12(2–3):151–174, February 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018961001209`.

Alves:2005:NMF

[AC05] C. J. S. Alves and C. S. Chen. A new method of fundamental solutions applied to non-homogeneous elliptic problems. *Advances in Computational Mathematics*, 23(1–2):125–142, July 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1833-5`.

Arjmand:2025:HBI

[AC25] Doghonay Arjmand and Víctor Martínez Calzada. A hybrid boundary integral-PDE approach for the approximation of the demagnetization potential in micromagnetics. *Advances in Computational Mathematics*, 51(3):??, June 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10233-z`.

AlonsoRodriguez:2024:WMG

[ACDR24] Ana Alonso Rodríguez, Jessika Camaño, Eduardo De Los Santos, and Francesca Rapetti. Weights for moments' geometrical localization: a canonical isomorphism. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10183-y`.

Atkinson:2010:SME

[ACH10] Kendall Atkinson, David Chien, and Olaf Hansen. A spectral method for elliptic equations: the Dirichlet problem. *Advances in Computational Mathematics*, 33(2): 169–189, August 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9125-8`.

Atkinson:2021:MQS

[ACH21] Kendall Atkinson, David Chien, and Olaf Hansen. Multivariate quadrature of a singular integrand. *Advances in Computational Mathematics*, 47(3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09869-4`.

Aksoylu:2019:CNO

[ACK19a] Burak Aksoylu, Fatih Celiker, and Orsan Kilicer. Correction to: Nonlocal operators with local boundary conditions in higher dimensions. *Advances in Computational Mathematics*, 45(1):493, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9632-6`. See [ACK19b].

Aksoylu:2019:NOL

[ACK19b] Burak Aksoylu, Fatih Celiker, and Orsan Kilicer. Nonlocal operators with local boundary conditions in higher dimensions. *Advances in Computational Mathematics*, 45(1):453–492, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9624-6`. See correction [ACK19a].

Adell:2020:SBP

[ACM20] José A. Adell and Daniel Cárdenas-Morales. Stochastic Bernstein polynomials: uniform convergence in probability with rates. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09770-6`.

Ambrose:2022:NAW

[ACM+22] David M. Ambrose, Roberto Camassa, Jeremy L. Marzuola, Richard M. McLaughlin, Quentin Robinson, and Jon Wilkening. Numerical algorithms for water waves with background flow over obstacles and topography. *Advances in Computational Mathematics*, 48(4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09957-z`.

Araya:2021:AMH

[ACPV21] Rodolfo Araya, Cristian Cárcamo, Abner H. Poza, and Frédéric Valentin. An adaptive multiscale hybrid-mixed method for the Oseen equations. *Advances in Computational Mathematics*, 47

(1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09833-8`.

Aimi:2008:RMN

[AD08] A. Aimi and M. Diligenti. Restriction matrices for numerically exploiting symmetry. *Advances in Computational Mathematics*, 28(3): 201–235, April 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-006-9019-y`.

Aceto:2024:ECS

[AD24] Lidia Aceto and Fabio Durastante. Efficient computation of the sinc matrix function for the integration of second-order differential equations. *Advances in Computational Mathematics*, 50 (6):??, December 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10202-y`.

Aimi:2017:EBF

[ADG17] A. Aimi, M. Diligenti, and C. Guardasoni. Energetic BEM–FEM coupling for the numerical solution of the damped wave equation. *Advances in Computational Mathematics*, 43(3): 627–651, June 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9500-1`.

Amat:2011:ACN

[ADL11] S. Amat, K. Dadourian, and J. Liandrat. Analysis of a class of nonlinear subdivision schemes and associated multiresolution transforms. *Advances in Computational Mathematics*, 34(3): 253–277, April 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9151-6`.

Albrecht:2025:PKE

[AEI25] Kristof Albrecht, Juliane Entzian, and Armin Iske. Product kernels are efficient and flexible tools for high-dimensional scattered data interpolation. *Advances in Computational Mathematics*, 51(2):??, April 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10226-y`.

Albrecht:1996:CPH

[AF96] Gudrun Albrecht and Rida T. Farouki. Construction of C^2 Pythagorean-hodograph interpolating splines by the homotopy method. *Advances*

in Computational Mathematics, 5(1):417–442, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124754`.

Angleitner:2023:MHI

[AFM23] Niklas Angleitner, Markus Faustmann, and Jens Markus Melenk. $\mathcal{H}$-inverses for RBF interpolation. *Advances in Computational Mathematics*, 49(6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10069-5`.

Allgower:1998:NES

[AG98] Eugene L. Allgower and Kurt Georg. Numerical exploitation of symmetry in integral equations. *Advances in Computational Mathematics*, 9(1–2):1–20, September 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018929204901`. Numerical treatment of boundary integral equations.

Aceto:2025:CAM

[AG25] Lidia Aceto and Luca Gemignani. Computing the action of the matrix generating function of Bernoulli polynomials on a vector with an application to non-local boundary value problems. *Advances in Computational Mathematics*, 51(2):??, April 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10231-1`.

Atencia:2019:ADP

[AGGAV+19] Ivan Atencia, José L. Galán-García, Gabriel Aguilera-Venegas, Pedro Rodríguez-Cielos, and M. Ángeles Galán-García. An arriving decision problem in a discrete-time queueing system. *Advances in Computational Mathematics*, 45(4):1863–1879, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09663-3`.

Acevedo:2023:NAN

[AGN23] Ramiro Acevedo, Christian Gómez, and Paulo Navia. Numerical analysis of nonlinear degenerate parabolic problems with application to eddy current models. *Advances in Computational Mathematics*, 49(4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10052-0`.

Averseng:2024:HFS

[AGS24] M. Averseng, J. Galkowski, and E. A. Spence. Helmholtz FEM solutions are locally quasi-optimal modulo low frequencies. *Advances in Computational Mathematics*, 50(6):??, December 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10193-w`.

Arbes:2025:KWL

[AGU25] Florian Arbes, Constantin Greif, and Karsten Urban. The Kolmogorov N-width for linear transport: exact representation and the influence of the data. *Advances in Computational Mathematics*, 51(2):??, April 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10224-0`.

Anderson:1996:PFB

[AH96] I. J. Anderson and S. K. Harbour. Parallel factorization of banded linear matrices using a systolic array processor. *Advances in Computational Mathematics*, 5(1):1–14, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124732`.

Atkinson:2011:SME

[AHC11] Kendall Atkinson, Olaf Hansen, and David Chien. A spectral method for elliptic equations: the Neumann problem. *Advances in Computational Mathematics*, 34(3):295–317, April 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9154-3`.

Apprich:2016:CWS

[AHHR16] Christian Apprich, Klaus Höllig, Jörg Hörner, and Ulrich Reif. Collocation with WEB-splines. *Advances in Computational Mathematics*, 42(4):823–842, August 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9444-x`.

Alla:2019:CMR

[AHK+19] Alessandro Alla, Michael Hinze, Philip Kolvenbach, Oliver Lass, and Stefan Ulbrich. A certified model reduction approach for robust parameter optimization with PDE constraints. *Advances in Computational Mathematics*, 45(3):1221–1250, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.`

springer.com/article/10.1007/s10444-018-9653-1.

Alkamper:2025:PDA

[AHL25] Martin Alkämper, Stephan Hilb, and Andreas Langer. A primal-dual adaptive finite element method for total variation minimization. *Advances in Computational Mathematics*, 51 (5):??, October 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10254-8.

Alsup:2024:FAM

[AHPP24] Terrence Alsup, Tucker Hartland, Benjamin Peherstorfer, and Noemi Petra. Further analysis of multilevel Stein variational gradient descent with an application to the Bayesian inference of glacier ice models. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10153-4.

Alla:2020:FCP

[AHS20] Alessandro Alla, Bernard Haasdonk, and Andreas Schmidt. Feedback control of parametrized PDEs via model order reduction and dynamic programming principle. *Advances in Computational Mathematics*, 46 (1):??, February 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09744-8.

Ainsworth:2001:PEE

[AK01] Mark Ainsworth and Donald W. Kelly. *A posteriori* error estimators and adaptivity for finite element approximation of the nonhomogeneous Dirichlet problem. *Advances in Computational Mathematics*, 15(1–4): 3–23, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1014240508621.

Asadzadeh:2015:CAB

[AK15] Mohammad Asadzadeh and Piotr Kowalczyk. Convergence analysis for backward-Euler and mixed discontinuous Galerkin methods for the Vlasov–Poisson system. *Advances in Computational Mathematics*, 41(4): 833–852, August 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-014-9388-6.

Alla:2019:RMO

[AK19] Alessandro Alla and J. Nathan Kutz. Randomized model order reduction. *Advances in Computational*

Mathematics, 45(3):1251–1271, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-09655-9`.

Arnold:2025:WBT

[AK25] Anton Arnold and Jannis Körner. WKB-based third order method for the highly oscillatory 1D stationary Schrödinger equation. *Advances in Computational Mathematics*, 51 (3):??, June 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10234-y`.

Arfat:2022:IEA

[AKKN22] Yasir Arfat, Poom Kumam, Muhammad Aqeel Ahmad Khan, and Parinya Sa Ngiamsunthorn. An inertial extragradient algorithm for equilibrium and generalized split null point problems. *Advances in Computational Mathematics*, 48 (5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09920-4`.

Alla:2023:SDR

[AKS23] Alessandro Alla, Dante Kalise, and Valeria Simoncini. State-dependent Riccati equation feedback stabilization for nonlinear PDEs. *Advances in Computational Mathematics*, 49 (1):??, February 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09998-4`.

afKlinteberg:2017:EEQ

[aKT17] Ludvig af Klinteberg and Anna-Karin Tornberg. Error estimation for quadrature by expansion in layer potential evaluation. *Advances in Computational Mathematics*, 43(1):195–234, February 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9484-x; http://link.springer.com/content/pdf/10.1007/s10444-016-9484-x.pdf`.

Arnold:1997:IEL

[AL97] Douglas N. Arnold and Xiaobo Liu. Interior estimates for a low order finite element method for the Reissner–Mindlin plate model. *Advances in Computational Mathematics*, 7(3): 337–360, May 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018907205385`.

Amat:2013:NTM

[AL13] Sergio Amat and Jacques Liandrat. Nonlinear thresholding of multiresolution decompositions adapted to the presence of discontinuities. *Advances in Computational Mathematics*, 38(1):133–146, January 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9231-2`.

Ahrens:2021:RLR

[AL21] Robin Ahrens and Sabine Le Borne. Reconstruction of low-rank aggregation kernels in univariate population balance equations. *Advances in Computational Mathematics*, 47(3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09871-w`.

Aguirre-Lopez:2019:CIS

[ALADH+19] Mario A. Aguirre-López, F-Javier Almaguer, O. Díaz-Hernández, Gerardo J. Escalera Santos, and Javier Morales-Castillo. On continuous inkjet systems: a printer driver for expiry date labels on cylindrical surfaces. *Advances in Computational Mathematics*, 45(4):2019–2028, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09682-0`.

Alben:2015:BBG

[Alb15] Silas Alben. Bending of bilayers with general initial shapes. *Advances in Computational Mathematics*, 41(1):1–22, February 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9347-2`.

Aguirre-Lopez:2019:CPM

[ALDHHZ+19] Mario A. Aguirre-López, O. Díaz-Hernández, Filiberto Hueyotl-Zahuantitla, Javier Morales-Castillo, F.-Javier Almaguer, and Gerardo J. Escalera Santos. A cardioid-parametric model for the Magnus effect in baseballs. *Advances in Computational Mathematics*, 45(4):2097–2109, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09694-w`.

Amat:2022:EMA

[ALRÁY22] Sergio Amat, David Levin, Juan Ruiz-Álvarez, and Dionisio F. Yáñez. Explicit multivariate approximations from cell-average data. *Advances in Computational Mathematics*, 48(6):??, December 2022. CODEN

ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09997-5`.

Allen:2024:MVM

[ALS24] Kenneth Allen, Ming-Jun Lai, and Zhaiming Shen. Maximal volume matrix cross approximation for image compression and least squares solution. *Advances in Computational Mathematics*, 50(5):??, October 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10196-7`.

Amigo:2026:PEE

[ALV26] Danilo Amigo, Felipe Lepe, and Nitesh Verma. A priori error estimates for a conforming VEM for the Oseen eigenvalue problem. *Advances in Computational Mathematics*, 52(4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10339-y`.

Albeverio:2002:CTF

[ALZ02] Sergio Albeverio, Lan-Jun Lao, and Xue-Lei Zhao. A continuous time financial market with a Poisson process as transaction timer. *Advances in Computational Mathematics*, 16(4): 305–330, May 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014566730969`.

Alzer:2010:EFI

[Alz10] Horst Alzer. Error function inequalities. *Advances in Computational Mathematics*, 33(3):349–379, October 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9139-2`.

Arteaga:2014:DFS

[AM14] Cristian Arteaga and Isabel Marrero. Direct form seminorms arising in the theory of interpolation by Hankel translates of a basis function. *Advances in Computational Mathematics*, 40(1): 167–183, February 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9303-6`.

Aghili:2024:OCF

[AM24] Joubine Aghili and Olga Mula. An optimal control framework for adaptive neural ODEs. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.`

springer.com/article/10.1007/s10444-024-10149-0.

Al-Maskari:2019:GFT

[AMK19] Mariam Al-Maskari and Samir Karaa. Galerkin FEM for a time-fractional Oldroyd-B fluid problem. *Advances in Computational Mathematics*, 45(2):1005–1029, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9649-x.

Aliyev:2020:ASR

[AMM20] Nicat Aliyev, Volker Mehrmann, and Emre Mengi. Approximation of stability radii for large-scale dissipative Hamiltonian systems. *Advances in Computational Mathematics*, 46(1):??, February 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09763-5.

An:2022:OCC

[AMPT22] Xin An, Ananta K. Majee, Andreas Prohl, and Thanh Tran. Optimal control for a coupled spin-polarized current and magnetization system. *Advances in Computational Mathematics*, 48 (3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09947-1.

Alves:2022:NMP

[AMS22] Carlos J. S. Alves, Nuno F. M. Martins, and Ana L. Silvestre. Numerical methods with particular solutions for nonhomogeneous Stokes and Brinkman systems. *Advances in Computational Mathematics*, 48 (4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09937-3.

Altmann:2024:HOI

[AMU24] Robert Altmann, Abdullah Mujahid, and Benjamin Unger. Higher-order iterative decoupling for poroelasticity. *Advances in Computational Mathematics*, 50(6): ??, December 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10200-0.

Adak:2020:VEM

[AN20a] D. Adak and S. Natarajan. Virtual element methods for nonlocal parabolic problems on general type of meshes. *Advances in Computational Mathematics*, 46 (5):??, October 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.

springer.com/article/10.1007/s10444-020-09811-0.

An:2020:IPM

[An20b] Rong An. Iteration penalty method for the incompressible Navier–Stokes equations with variable density based on the artificial compressible method. *Advances in Computational Mathematics*, 46 (1):??, February 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09757-3.

Andrade:2020:EPC

[And20] J. A. A. Andrade. Exact posterior computation for the binomial-Kumaraswamy model. *Advances in Computational Mathematics*, 46 (6):??, December 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09821-y.

Angermann:2000:EAU

[Ang00] Lutz Angermann. Error analysis of upwind-discretizations for the steady-state incompressible Navier–Stokes equations. *Advances in Computational Mathematics*, 13(2): 167–198, May 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018902210295.

Aretz-Nellesen:2019:VPP

[ANGV19] Nicole Aretz-Nellesen, Martin A. Grepl, and Karen Veroy. 3D-VAR for parameterized partial differential equations: a certified reduced basis approach. *Advances in Computational Mathematics*, 45(5–6):2369–2400, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09713-w.

Arrutselvi:2022:VEM

[ANN22] M. Arrutselvi, E. Natarajan, and S. Natarajan. Virtual element method for the quasilinear convection–diffusion–reaction equation on polygonal meshes. *Advances in Computational Mathematics*, 48(6):??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09990-y.

Anonymous:1993:MJG

[Ano93] Anonymous. In memoriam John Gregory. *Advances in Computational Mathematics*, 1(1):iii, February 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02070818.

Anonymous:1995:GE

[Ano95] Anonymous. The Guest Editor. *Advances in Computational Mathematics*, 4(1–2):i, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02123469`.

Anonymous:2000:AI

[Ano00a] Anonymous. Author index. *Advances in Computational Mathematics*, 13(4):417–418, December 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016615818384`.

Anonymous:2000:P

[Ano00b] Anonymous. Preface. *Advances in Computational Mathematics*, 12(4):i–ii, March 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018925420773`.

Anonymous:2001:AI

[Ano01a] Anonymous. Author index. *Advances in Computational Mathematics*, 14(4):393–394, May 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016819732496`.

Anonymous:2001:PEE

[Ano01b] Anonymous. A posteriori error estimation and adaptive computational methods. *Advances in Computational Mathematics*, 15(1–4):1–2, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016858615238`.

Anonymous:2001:PA

[Ano01c] Anonymous. Publisher's announcement. *Advances in Computational Mathematics*, 14(1):1–6, January 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016633820248`.

Anonymous:2002:AIa

[Ano02a] Anonymous. Author index. *Advances in Computational Mathematics*, 16(4):389–390, May 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016822023144`.

Anonymous:2002:AIb

[Ano02b] Anonymous. Author index. *Advances in Computational Mathematics*, 17(4):397–398, November 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.`

springer.com/article/10.1023/A:1016232931523.

Anonymous:2002:MCO

[Ano02c] Anonymous. Modeling and computation in optics and electromagnetics. *Advances in Computational Mathematics*, 16(2–3):97–98, April 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1016809007214.

Anonymous:2002:PAG

[Ano02d] Anonymous. Preface; advances in geometrical algorithms and representations. *Advances in Computational Mathematics*, 17 (1–2):1–3, July 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1016806617055.

Anonymous:2003:AIa

[Ano03a] Anonymous. Author index. *Advances in Computational Mathematics*, 18(2–4):431–432, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1021307330201.

Anonymous:2003:AIb

[Ano03b] Anonymous. Author index. *Advances in Computational Mathematics*, 19(4):413–414, November 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1024388324172.

Anonymous:2003:PEA

[Ano03c] Anonymous. Past Editors of *Advances in Computational Mathematics*. *Advances in Computational Mathematics*, 19(1–3):337, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1022848030422.

Anonymous:2004:AIa

[Ano04a] Anonymous. Author index. *Advances in Computational Mathematics*, 20(4):427–428, May 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1027303623367.

Anonymous:2004:AIb

[Ano04b] Anonymous. Author index. *Advances in Computational Mathematics*, 21(3–4):449–450, October 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/B:ACOM.0000032143.19990.2b.

Anonymous:2004:E

[Ano04c] Anonymous. Errata. *Advances in Computational Mathematics*, 21(3–4):445, October 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/B:ACOM.0000032141.51652.c6; http://link.springer.com/content/pdf/10.1023/B:ACOM.0000032141.51652.c6.pdf`.

Anonymous:2004:PEAa

[Ano04d] Anonymous. Past Editors of *Advances in Computational Mathematics*. *Advances in Computational Mathematics*, 20(4):425, May 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1027315116562`.

Anonymous:2004:PEAb

[Ano04e] Anonymous. Past Editors of *Advances in Computational Mathematics*. *Advances in Computational Mathematics*, 21(1–2):219, July 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/B:ACOM.0000016693.57844.49`.

Anonymous:2004:PEAc

[Ano04f] Anonymous. Past Editors of *Advances in Computational Mathematics*. *Advances in Computational Mathematics*, 21(3–4):447, October 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/B:ACOM.0000032142.27408.87`.

Anonymous:2004:P

[Ano04g] Anonymous. Preface. *Advances in Computational Mathematics*, 20(1–3):1–3, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1025814926647`.

Anonymous:2005:PEAa

[Ano05a] Anonymous. Past editors of *Advances in Computational Mathematics*. *Advances in Computational Mathematics*, 22(1):101, January 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-5323-1`.

Anonymous:2005:PEAb

[Ano05b] Anonymous. Past editors of *Advances in Computational Mathematics*. *Advances in Computational Mathematics*, 22(2):199, February 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/`

10.1007/s10444-004-6475-0.

Anonymous:2005:P

[Ano05c] Anonymous. Preface. *Advances in Computational Mathematics*, 23(1–2):1–3, July 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-2232-7.

Anonymous:2006:P

[Ano06] Anonymous. Preface. *Advances in Computational Mathematics*, 24(1–4):1–3, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-7205-3.

Anonymous:2008:E

[Ano08] Anonymous. Errata. *Advances in Computational Mathematics*, 29(1):91–100, July 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9090-7.

Anonymous:2016:EAC

[Ano16] Anonymous. Erratum to: *Advances in Computational Mathematics*, volume 41 December 2015, issue 6, pages 1391–1641 [MR3428571; MR3428572; MR3428573; MR3428574; MR3428575; MR3428576; MR3428577; MR3428578; MR3428579; MR3428580]. *Advances in Computational Mathematics*, 42(4):1013–1014, August 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9464-1; http://link.springer.com/content/pdf/10.1007/s10444-016-9464-1.pdf. Due to an oversight during issue building, the page numbers of issue 6 overlaps issue 5. Issue 5 start and end page is 955–1389, while issue 6 start and end page is 955–1205. Corrected page numbers are supplied here.

Averbuch:2017:LCS

[ANSZ17] Amir Averbuch, Pekka Neittaanmäki, Etay Shefi, and Valery Zheludev. Local cubic splines on non-uniform grids and real-time computation of wavelet transform. *Advances in Computational Mathematics*, 43(4):733–758, August 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9504-x.

Antunes:2018:RIC

[Ant18] Pedro R. S. Antunes. Reducing the ill conditioning in the method of fundamental solutions. *Advances in Computational Mathematics*, 44(1):

351–365, February 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9548-6`.

Averbuch:2023:DWP

[ANZ23] Amir Averbuch, Pekka Neittaanmäki, and Valery Zheludev. Directional wavelet packets originating from polynomial splines. *Advances in Computational Mathematics*, 49(2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10024-4`.

Ashby:2025:DOB

[AP25] Ben S. Ashby and Tristan Pryer. Discretisation of an Oldroyd-B viscoelastic fluid flow using a Lie derivative formulation. *Advances in Computational Mathematics*, 51 (1):??, February 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10211-x`.

Arjmand:2018:ACM

[APK18] Doghonay Arjmand, Mikhail Poluektov, and Gunilla Kreiss. Atomistic-continuum multiscale modelling of magnetisation dynamics at nonzero temperature. *Advances in Computational Mathematics*, 44(4):1119–1151, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9575-3`.

Arjmand:2020:MLR

[APK20] Doghonay Arjmand, Mikhail Poluektov, and Gunilla Kreiss. Modelling long-range interactions in multiscale simulations of ferromagnetic materials. *Advances in Computational Mathematics*, 46 (1):??, February 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09747-5`.

Alla:2024:OIC

[APPP24] Alessandro Alla, Agnese Pacifico, Michele Palladino, and Andrea Pesare. Online identification and control of PDEs via reinforcement learning methods. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10167-y`.

Araya:2014:ARL

[APV14] Rodolfo Araya, Abner H. Poza, and Frédéric Valentin. An adaptive residual lo-

cal projection finite element method for the Navier–Stokes equations. *Advances in Computational Mathematics*, 40(5–6):1093–1119, December 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9343-6`.

Askham:2020:BIE

[AR20] Travis Askham and Manas Rachh. A boundary integral equation approach to computing eigenvalues of the Stokes operator. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09774-2`.

Andrade:2023:EPD

[AR23] J. A. A. Andrade and P. N. Rathie. Exact posterior distribution for nonconjugate Pareto models. *Advances in Computational Mathematics*, 49(3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10030-6`.

Arabyan:2020:RCA

[Ara20] Mariam Arabyan. On the rate of convergence for approximation of an eigenvalue problem describing vibrations of axisymmetric revolution elastic shells. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09775-1`.

Acosta-Reyes:2009:SSR

[ARAK09] Ernesto Acosta-Reyes, Akram Aldroubi, and Ilya Krishtal. On stability of sampling-reconstruction models. *Advances in Computational Mathematics*, 31(1–3):5–34, October 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9083-6`.

Alonso:2001:PEE

[ARPR01] Ana Alonso, Anahí Dello Russo, Claudio Padra, and Rodolfo Rodríguez. *A posteriori* error estimates and a local refinement strategy for a finite element method to solve structural-acoustic vibration problems. *Advances in Computational Mathematics*, 15(1–4):25–59, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014243118190`. *A posteriori* error estimation and adaptive computational methods.

Alfeld:2002:SME

[AS02] Peter Alfeld and Larry L. Schumaker. Smooth macro-elements based on Powell–Sabin triangle splits. *Advances in Computational Mathematics*, 16(1):29–46, January 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014299228104`.

Aldroubi:2003:P

[AS03] Akram Aldroubi and Qiyu Sun. Preface. *Advances in Computational Mathematics*, 18(2–4):91–92, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021340203871`.

Atluri:2005:BMD

[AS05] Satya N. Atluri and Shengping Shen. The basis of meshless domain discretization: the meshless local Petrov–Galerkin (MLPG) method. *Advances in Computational Mathematics*, 23(1–2):73–93, July 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1813-9`.

Alfeld:2008:BDT

[AS08] Peter Alfeld and Larry L. Schumaker. Bounds on the dimensions of trivariate spline spaces. *Advances in Computational Mathematics*, 29(4):315–335, November 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9051-6`.

Adcock:2021:FAB

[AS21] Ben Adcock and Mohsen Seifi. Frame approximation with bounded coefficients. *Advances in Computational Mathematics*, 47 (1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09820-z`.

Arambasic:2024:DFC

[AS24] Ljiljana Arambasić and Diana Stoeva. Dual frames compensating for erasures-a non-canonical case. *Advances in Computational Mathematics*, 50(1):??, February 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10104-5`.

Alfeld:2010:TCM

[ASS10] Peter Alfeld, Larry L. Schumaker, and Tatyana Sorokina. Two condensed macro-elements with full approximation power. *Advances*

in Computational Mathematics, 32(4):381–391, May 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9110-7`.

Ali:2017:RBM

[ASU17] Mazen Ali, Kristina Steih, and Karsten Urban. Reduced basis methods with adaptive snapshot computations. *Advances in Computational Mathematics*, 43(2):257–294, April 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9485-9`.

Atreas:2012:CNU

[Atr12] Nikolaos D. Atreas. On a class of non-uniform average sampling expansions and partial reconstruction in subspaces of $L_2(\mathbf{R})$. *Advances in Computational Mathematics*, 36(1):21–38, January 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9177-4`.

Arslan:2019:EFS

[ATS19] Sinem Arslan and Münevver Tezer-Sezgin. Exact and FDM solutions of 1D MHD flow between parallel electrically conducting and slipping plates. *Advances in Computational Mathematics*, 45(4):1923–1938, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09669-x`.

Ali:2020:HAH

[AU20] Mazen Ali and Karsten Urban. HT-AWGM: a hierarchical Tucker-adaptive wavelet Galerkin method for high-dimensional elliptic problems. *Advances in Computational Mathematics*, 46(4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09797-9`.

Alla:2015:ASP

[AV15] Alessandro Alla and Stefan Volkwein. Asymptotic stability of POD based model predictive control for a semilinear parabolic PDE. *Advances in Computational Mathematics*, 41(5):1073–1102, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9381-0`.

Aguilera-Venegas:2019:PEC

[AVGGEG+19] Gabriel Aguilera-Venegas, José Luis Galán-García, Rocío Egea-Guerrero, María Á.

Galán-García, Pedro Rodríguez-Cielos, Yolanda Padilla-Domínguez, and María Galán-Luque. A probabilistic extension to Conway's Game of Life. *Advances in Computational Mathematics*, 45(4): 2111–2121, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09696-8`.

Aumann:2024:ACN

[AW24] Quirin Aumann and Steffen W. R. Werner. Adaptive choice of near-optimal expansion points for interpolation-based structure-preserving model reduction. *Advances in Computational Mathematics*, 50(4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10166-z`.

Aretz:2026:NOI

[AW26] Nicole Aretz and Karen Willcox. Nested operator inference for adaptive data-driven learning of reduced-order models. *Advances in Computational Mathematics*, 52(4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10322-7`.

Awanou:2013:RME

[Awa13] Gerard Awanou. Rectangular mixed elements for elasticity with weakly imposed symmetry condition. *Advances in Computational Mathematics*, 38(2):351–367, February 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9240-1`.

Awanou:2015:PTC

[Awa15] Gerard Awanou. Pseudo transient continuation and time marching methods for Monge–Ampère type equations. *Advances in Computational Mathematics*, 41(4): 907–935, August 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9391-y`.

Atkinson:1998:I

[AX98] Kendall Atkinson and Yuesheng Xu. Introduction. *Advances in Computational Mathematics*, 9(1–2):0, September 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018968919014`.

Amsallem:2015:FLR

[AZW15] David Amsallem, Matthew J. Zahr, and Kyle Washabaugh.

Fast local reduced basis updates for the efficient reduction of nonlinear systems with hyper-reduction. *Advances in Computational Mathematics*, 41(5):1187–1230, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9409-0`.

Zou:2023:ECN

[aZWL23] Guang an Zou, Xuyang Wang, and Jian Li. An extrapolated Crank–Nicolson virtual element scheme for the nematic liquid crystal flows. *Advances in Computational Mathematics*, 49 (3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10028-0`.

Borzi:2015:SOA

[BA15] Alfio Borzì and Sergio González Andrade. Second-order approximation and fast multigrid solution of parabolic bilinear optimization problems. *Advances in Computational Mathematics*, 41(2): 457–488, April 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9369-9`.

Badea:2019:CMM

[Bad19] Lori Badea. On the convergence of a multigrid method for Moreau-regularized variational inequalities of the second kind. *Advances in Computational Mathematics*, 45(5–6):2807–2832, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09709-6`.

Bai:1999:CMB

[Bai99] Zhong-Zhi Bai. A class of modified block SSOR preconditioners for symmetric positive definite systems of linear equations. *Advances in Computational Mathematics*, 10(2):169–186, February 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018974514896`.

Barry:1994:I

[Bar94] Phillip Barry. Introduction. *Advances in Computational Mathematics*, 2(1): ix–x, January 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02519032`.

Barrio:2003:URE

[Bar03] Roberto Barrio. A uni-

fied rounding error bound for polynomial evaluation. *Advances in Computational Mathematics*, 19(4):385–399, November 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1024203520270`.

Beatson:2007:MFI

[BB07] R. K. Beatson and H.-Q. Q. Bui. Mollification formulas and implicit smoothing. *Advances in Computational Mathematics*, 27(2):125–149, August 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-7512-3`.

Borghi:2024:MHO

[BB24] Alessandro Borghi and Tobias Breiten. $\mathcal{H}_\in$ optimal rational approximation on general domains. *Advances in Computational Mathematics*, 50(3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10125-8`.

Borghi:2025:DDO

[BB25] Alessandro Borghi and Tobias Breiten. Data-driven optimal approximation on Hardy spaces in simply connected domains. *Advances in Computational Mathematics*, 51(6):??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10275-3`.

Bender:2026:PFT

[BB26] Sam Bender and Christopher Beattie. Partial Floquet transformation and model order reduction of linear time-periodic systems. *Advances in Computational Mathematics*, 52(4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10320-9`.

Blom:2016:CRE

[BBB+16] David S. Blom, Philipp Birken, Hester Bijl, Fleur Kessels, Andreas Meister, and Alexander H. van Zuijlen. A comparison of Rosenbrock and ESDIRK methods combined with iterative solvers for unsteady compressible flows. *Advances in Computational Mathematics*, 42(6):1401–1426, December 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9468-x`; `http://link.springer.com/content/pdf/10.1007/s10444-016-9468-x.pdf`.

Barrios:2021:PEE

[BBB21] Tomás P. Barrios, Edwin M. Behrens, and Rommel Bustinza. An a posteriori error estimate for a dual mixed method applied to Stokes system with non-null source terms. *Advances in Computational Mathematics*, 47(5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09906-2`.

Barrios:2022:NAS

[BBB22] Tomás P. Barrios, Edwin M. Behrens, and Rommel Bustinza. Numerical analysis of a stabilized scheme applied to incompressible elasticity problems with Dirichlet and with mixed boundary conditions. *Advances in Computational Mathematics*, 48(4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09956-0`.

Bertrand:2021:CAS

[BBdD21] Fleurianne Bertrand, Daniele Boffi, and Gonzalo G. de Diego. Convergence analysis of the scaled boundary finite element method for the Laplace equation. *Advances in Computational Mathematics*, 47(3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09852-z`.

Benitez:2024:LAS

[BBF+24] Marta Benítez, Alfredo Bermúdez, Pedro Fontán, Iván Martínez, and Pilar Salgado. A Lagrangian approach for solving an axisymmetric thermo-electromagnetic problem. Application to time-varying geometry processes. *Advances in Computational Mathematics*, 50(3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10121-y`.

Bonnet-Bendhia:2002:DAG

[BBR02] Anne-Sophie Bonnet-Bendhia and Karim Ramdani. Diffraction by an acoustic grating perturbed by a bounded obstacle. *Advances in Computational Mathematics*, 16(2–3):113–138, April 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014437813575`. Modeling and computation in optics and electromagnetics.

Broms:2025:MFS

[BBT25] Anna Broms, Alex H. Barnett, and Anna-Karin Tornberg. A method of fundamental solutions for large-

scale 3D elastance and mobility problems. *Advances in Computational Mathematics*, 51(5):??, October 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10258-4`.

Brunnett:1994:ECS

[BC94] Guido Brunnett and Peter E. Crouch. Elastic curves on the sphere. *Advances in Computational Mathematics*, 2(1): 23–40, January 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02519034`.

Becuwe:1999:FPM

[BC99] Stefan Becuwe and Annie Cuyt. On the Froissart phenomenon in multivariate homogeneous Padé approximation. *Advances in Computational Mathematics*, 11 (1):21–40, July 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018911623074`.

Bot:2019:AMO

[BC19] Radu Ioan Bot and Ernö Robert Csetnek. ADMM for monotone operators: convergence analysis and rates. *Advances in Computational Mathematics*, 45(1):327–359, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9619-3`.

Bellomonte:2020:FWF

[BC20] Giorgia Bellomonte and Rosario Corso. Frames and weak frames for unbounded operators. *Advances in Computational Mathematics*, 46 (2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09773-3`.

Bagur:2022:IHM

[BCC22] Laura Bagur, Stéphanie Chaillat, and Patrick Ciarlet, Jr. Improvement of hierarchical matrices for 3D elastodynamic problems with a complex wavenumber. *Advances in Computational Mathematics*, 48(2):??, April 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09921-3`.

Bollt:2009:GAI

[BCE+09] Erik M. Bollt, Rick Chartrand, Selim Esedoğlu, Pete Schultz, and Kevin R. Vixie. Graduated adaptive image denoising: local compromise between total variation and isotropic diffusion. *Advances in Computational Mathematics*, 31(1–3):

61–85, October 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9082-7`.

Balan:2003:DEF

[BCHL03] Radu Balan, Peter G. Casazza, Christopher Heil, and Zeph Landau. Deficits and excesses of frames. *Advances in Computational Mathematics*, 18(2–4):93–116, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021360227672`. Frames.

Bay:2022:HIP

[BCHS22] Thierry Bay, Isabelle Cattiaux-Huillard, and Laura Saini. Hermite interpolation by planar cubic-like ATPH. *Advances in Computational Mathematics*, 48(5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09978-8`.

Beatson:1999:FFR

[BCM99] R. K. Beatson, J. B. Cherrie, and C. T. Mouat. Fast fitting of radial basis functions: methods based on preconditioned GMRES iteration. *Advances in Computational Mathematics*, 11(2–3):253–270, November 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018932227617`. Radial basis functions and their applications.

Bonis:2024:TPE

[BCMR24] Thomas Bonis, Frédéric Chazal, Bertrand Michel, and Wojciech Reise. Topological phase estimation method for reparameterized periodic functions. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10157-0`.

Briani:2024:IFD

[BCO24] Maya Briani, Emiliano Cristiani, and Elia Onofri. Inverting the fundamental diagram and forecasting boundary conditions: how machine learning can improve macroscopic models for traffic flow. *Advances in Computational Mathematics*, 50 (6):??, December 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10206-8`.

Benner:2019:BMH

[BCS19] Peter Benner, Xingang Cao, and Wil Schilders. A bi-

linear $\mathcal{H}_\in$ model order reduction approach to linear parameter-varying systems. *Advances in Computational Mathematics*, 45(5–6):2241–2271, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09695-9`.

Barcelo:2023:LLM

[BCV23] Juan Antonio Barceló, Carlos Castro, and Mari Cruz Vilela. Live load matrix recovery from scattering data in linear elasticity. *Advances in Computational Mathematics*, 49 (6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10087-3`.

Borwein:2005:ECG

[BCZ05] P. B. Borwein, A. Cuyt, and P. Zhou. Explicit construction of general multivariate Padé approximants to an Appell function. *Advances in Computational Mathematics*, 22(3):249–273, April 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-003-2600-8`.

Bao:2023:SSB

[BCZ23] Feng Bao, Yanzhao Cao, and He Zhang. Splitting scheme for backward doubly stochastic differential equations. *Advances in Computational Mathematics*, 49 (4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10053-z`.

Bank:1993:SMM

[BD93] Randolph E. Bank and Craig C. Douglas. Sparse matrix multiplication package (SMMP). *Advances in Computational Mathematics*, 1(1): 127–137, February 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02070824`.

Benedetto:2010:CIU

[BD10] John J. Benedetto and Somantika Datta. Construction of infinite unimodular sequences with zero autocorrelation. *Advances in Computational Mathematics*, 32(2): 191–207, February 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9100-9`.

Biswas:2018:LDE

[BD18] Biswarup Biswas and Ritesh Kumar Dubey. Low dissipative entropy stable schemes using third order WENO and TVD reconstructions.

Advances in Computational Mathematics, 44(4):1153–1181, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9576-2`.

Buckwar:2021:CEM

[BD21a] Evelyn Buckwar and Raffaele D'Ambrosio. Correction to: Exponential mean-square stability properties of stochastic linear multistep methods. *Advances in Computational Mathematics*, 47 (6):??, December 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09901-7`. See [BD21b].

Buckwar:2021:EMS

[BD21b] Evelyn Buckwar and Raffaele D'Ambrosio. Exponential mean-square stability properties of stochastic linear multistep methods. *Advances in Computational Mathematics*, 47(4):??, August 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09879-2`. See correction [BD21a].

Barinka:2006:AAO

[BDD06] Arne Barinka, Stephan Dahlke, and Wolfgang Dahmen. Adaptive application of operators in standard representation. *Advances in Computational Mathematics*, 24(1–4):5–34, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7631-2`.

Bezchlebova:2019:NST

[BDFS19] Eva Bezchlebová, Vít Dolejší, Miloslav Feistauer, and Petr Sváček. Numerical simulation of two-phase flow of immiscible fluids by the finite element, discontinuous Galerkin and level-set methods. *Advances in Computational Mathematics*, 45(4): 1993–2018, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09681-1`.

Baraniuk:2002:NBT

[BDKY02] R. G. Baraniuk, R. A. DeVore, G. Kyriazis, and X. M. Yu. Near best tree approximation. *Advances in Computational Mathematics*, 16 (4):357–373, May 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014554317692`.

Buet:2020:TDG

[BDM20] Christophe Buet, Bruno Despres, and Guillaume

Morel. Trefftz discontinuous Galerkin basis functions for a class of Friedrichs systems coming from linear transport. *Advances in Computational Mathematics*, 46 (3):??, June 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09755-5`.

Bonesky:2010:AWM

[BDMR10] Thomas Bonesky, Stephan Dahlke, Peter Maass, and Thorsten Raasch. Adaptive wavelet methods and sparsity reconstruction for inverse heat conduction problems. *Advances in Computational Mathematics*, 33(4):385–411, November 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9147-2`.

Bruno:2026:BPH

[BDN26] Ludovico Bruni Bruno, Francesco Dell'Accio, and Federico Nudo. Bivariate polynomial histopolation techniques on Padua, Fekete, and Leja triangles. *Advances in Computational Mathematics*, 52 (3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10309-4`.

Benner:2020:BTL

[BDYY20] Peter Benner, Xin Du, Guanghong Yang, and Dan Ye. Balanced truncation of linear time-invariant systems over finite-frequency ranges. *Advances in Computational Mathematics*, 46 (6):??, December 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09823-w`.

Burger:2000:TNN

[BE00] Martin Burger and Heinz W. Engl. Training neural networks with noisy data as an ill-posed problem. *Advances in Computational Mathematics*, 13(4):335–354, December 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016641629556`.

Bachoc:2017:OCL

[BEG17] François Bachoc, Martin Ehler, and Manuel Gräf. Optimal configurations of lines and a statistical application. *Advances in Computational Mathematics*, 43(1): 113–126, February 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9478-8`; `http://link.springer.com/`

content/pdf/10.1007/s10444-016-9478-8.pdf.

Boito:2022:CRE

[BEG22] Paola Boito, Yuli Eidelman, and Luca Gemignani. Computing the reciprocal of a φ-function by rational approximation. *Advances in Computational Mathematics*, 48 (1):??, February 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09917-z.

Beinert:2023:ACB

[Bei23] Robert Beinert. Approximation of curve-based sleeve functions in high dimensions. *Advances in Computational Mathematics*, 49(6): ??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10088-2.

Bendtsen:1997:PSO

[Ben97] Claus Bendtsen. A parallel stiff ODE solver based on MIRKs. *Advances in Computational Mathematics*, 7(1–2):27–36, March 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018978331792. Parallel methods for ODEs.

Bramble:1996:AMA

[BEPS96] James H. Bramble, Richard E. Ewing, Joseph E. Pasciak, and Jian Shen. The analysis of multigrid algorithms for cell centered finite difference methods. *Advances in Computational Mathematics*, 5(1): 15–29, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02124733.

Bespalov:2003:OSS

[Bes03] Alexei Bespalov. Orthogonal systems of singular functions and numerical treatment of problems with degeneration of data. *Advances in Computational Mathematics*, 19(1–3):159–182, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1022862704316. Challenges in computational mathematics (Pohang, 2001).

Bull:1994:PGA

[BF94] J. M. Bull and T. L. Freeman. Parallel globally adaptive quadrature on the KSR-1. *Advances in Computational Mathematics*, 2(4):357–373, September 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02521604.

Benedetto:2003:FNT

[BF03] John J. Benedetto and Matthew Fickus. Finite normalized tight frames. *Advances in Computational Mathematics*, 18(2–4):357–385, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021323312367`. Frames.

Benner:2011:NSL

[BF11] Peter Benner and Heike Faßbender. On the numerical solution of large-scale sparse discrete-time Riccati equations. *Advances in Computational Mathematics*, 35(2–4):119–147, November 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9174-7`.

Brugnano:2022:NFP

[BFCIV22] Luigi Brugnano, Gianluca Frasca-Caccia, Felice Iavernaro, and Vincenzo Vespri. A new framework for polynomial approximation to differential equations. *Advances in Computational Mathematics*, 48(6):??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09992-w`.

Brivio:2024:EEP

[BFFM24] Simone Brivio, Stefania Fresca, Nicola Rares Franco, and Andrea Manzoni. Error estimates for POD–DL-ROMs: a deep learning framework for reduced order modeling of nonlinear parametrized PDEs enhanced by proper orthogonal decomposition. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10110-1`.

Benner:2018:MRC

[BFH+18] Peter Benner, Heike Faßbender, Michael Hinze, Tatjana Stykel, and Ralf Zimmermann. Model reduction of complex dynamical systems. *Advances in Computational Mathematics*, 44(6):1687–1691, December 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9640-6`.

Billaud-Friess:2024:PRB

[BFMNP24] Marie Billaud-Friess, Arthur Macherey, Anthony Nouy, and Clémentine Prieur. A probabilistic reduced basis method for parameter-dependent problems. *Advances in Computational Mathematics*, 50(2):??, April

2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10114-x.

Benner:2024:BTQ

[BG24] Peter Benner and Pawan Goyal. Balanced truncation for quadratic-bilinear control systems. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10186-9.

Balicki:2026:MRA

[BG26] Linus Balicki and Serkan Gugercin. Multivariate rational approximation via low-rank tensors and the p-AAA algorithm. *Advances in Computational Mathematics*, 52 (4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-026-10330-7.

Bermudez:2024:NSR

[BGG24] A. Bermúdez, D. Gómez, and D. González. Numerical simulation of resistance furnaces by using distributed and lumped models. *Advances in Computational Mathematics*, 50(2):??, April 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10120-z.

Benner:2015:PMO

[BGH15] Peter Benner, Sara Grundel, and Nils Hornung. Parametric model order reduction with a small $\mathcal{H}_\in$-error using radial basis functions. *Advances in Computational Mathematics*, 41(5):1231–1253, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-015-9410-7.

Barry:1993:KIA

[BGM93] Phillip J. Barry, Ronald N. Goldman, and Charles A. Micchelli. Knot insertion algorithms for piecewise polynomial spaces determined by connection matrices. *Advances in Computational Mathematics*, 1(2): 139–171, June 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02071383.

Bermudez:2007:TNS

[BGMS07] A. Bermúdez, D. Gómez, M. C. Muñiz, and P. Salgado. Transient numerical simulation of a thermoelectrical problem in cylindrical induction heating furnaces. *Advances in Computational Mathematics*, 26(1–

3):39–62, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-7470-9`.

Brander:2017:APE

[BGN17] David Brander, Jens Gravesen, and Toke Bjerge Nørbjerg. Approximation by planar elastic curves. *Advances in Computational Mathematics*, 43(1):25–43, February 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9474-z`.

Beattie:2020:SFM

[BGT20] Christopher Beattie, Serkan Gugercin, and Zoran Tomljanović. Sampling-free model reduction of systems with low-rank parameterization. *Advances in Computational Mathematics*, 46(6):??, December 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09825-8`.

Bradde:2026:CRF

[BGT26] Tommaso Bradde and Stefano Grivet-Talocia. Constrained rational fitting for $\mathcal{D}$-stable model order reduction. *Advances in Computational Mathematics*, 52 (2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10297-5`.

Benner:2021:SPI

[BGW21] Peter Benner, Serkan Gugercin, and Steffen W. R. Werner. Structure-preserving interpolation of bilinear control systems. *Advances in Computational Mathematics*, 47 (3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09863-w`.

Benner:2024:SIM

[BGW24] Peter Benner, Serkan Gugercin, and Steffen W. R. Werner. Structured interpolation for multivariate transfer functions of quadratic-bilinear systems. *Advances in Computational Mathematics*, 50 (2):??, April 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10109-8`.

Borm:2002:MCA

[BH02] S. Börm and R. Hiptmair. Multigrid computation of axisymmetric electromagnetic fields. *Advances in Computational Mathematics*, 16(4): 331–356, May 2002. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1014533409747.

Bodmann:2015:SPR

[BH15] Bernhard G. Bodmann and Nathaniel Hammen. Stable phase retrieval with low-redundancy frames. *Advances in Computational Mathematics*, 41(2):317–331, April 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-014-9359-y.

Bayramyan:2017:NPP

[BH17] Vahagn Bayramyan and Hakop Hakopian. On a new property of n-poised and GC_n sets. *Advances in Computational Mathematics*, 43 (3):607–626, June 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9499-3.

Benner:2019:CGB

[BH19] Peter Benner and Christian Himpe. Cross-Gramian-based dominant subspaces. *Advances in Computational Mathematics*, 45(5–6):2533–2553, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09724-7.

Beinert:2023:PRS

[BH23] Robert Beinert and Marzieh Hasannasab. Phase retrieval and system identification in dynamical sampling via Prony's method. *Advances in Computational Mathematics*, 49(4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10059-7.

BenAlia:2025:NOM

[BH25] Sabira Ben Alia and Mohammed Hachama. A non-local osmosis model for enhanced multi-image fusion. *Advances in Computational Mathematics*, 51(6):??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10259-3.

Benner:2018:RIO

[BHM18] Peter Benner, Christian Himpe, and Tim Mitchell. On reduced input-output dynamic mode decomposition. *Advances in Computational Mathematics*, 44(6):1751–1768, December 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9592-x.

Benzi:2011:PTC

[BHT11] Michele Benzi, Eldad Haber, and Lauren Taralli. A preconditioning technique for a class of PDE-constrained optimization problems. *Advances in Computational Mathematics*, 35(2–4):149–173, November 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9173-8`.

Bini:2011:NCM

[BI11] Dario Andrea Bini and Bruno Iannazzo. A note on computing matrix geometric means. *Advances in Computational Mathematics*, 35(2–4):175–192, November 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9165-0`.

Berghaus:2024:CLE

[BJMR24] David Berghaus, Robert Stephen Jones, Hartmut Monien, and Danylo Radchenko. Computation of Laplacian eigenvalues of two-dimensional shapes with dihedral symmetry. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10138-3`.

Brenner:2009:MRV

[BJX09] Marty Brenner, Ying Jiang, and Yuesheng Xu. Multiparameter regularization for Volterra kernel identification via multiscale collocation methods. *Advances in Computational Mathematics*, 31(4):421–455, November 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9077-4`.

Bramble:1996:FEM

[BK96] James H. Bramble and J. Thomas King. A finite element method for interface problems in domains with smooth boundaries and interfaces. *Advances in Computational Mathematics*, 6(1):109–138, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127700`.

Birem:2016:MSM

[BK16] Mira Birem and Christian Klein. Multidomain spectral method for Schrödinger equations. *Advances in Computational Mathematics*, 42(2): 395–423, April 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.`

springer.com/article/10.1007/s10444-015-9429-9.

Boulmezaoud:2024:SFC

[BK24] Tahar Z. Boulmezaoud and Keltoum Kaliche. Stray field computation by inverted finite elements: a new method in micromagnetic simulations. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10139-2.

Boulmezaoud:2017:IFE

[BKK17] Tahar Z. Boulmezaoud, Keltoum Kaliche, and Nabil Kerdid. Inverted finite elements for div–curl systems in the whole space. *Advances in Computational Mathematics*, 43(6):1469–1489, December 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-017-9532-1.

Burger:2021:VEM

[BKM+21] Raimund Bürger, Sarvesh Kumar, David Mora, Ricardo Ruiz-Baier, and Nitesh Verma. Virtual element methods for the three-field formulation of time-dependent linear poroelasticity. *Advances in Computational Mathematics*, 47 (1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09826-7.

Bardsley:2011:SLA

[BKN11] Johnathan M. Bardsley, Sarah Knepper, and James Nagy. Structured linear algebra problems in adaptive optics imaging. *Advances in Computational Mathematics*, 35(2–4):103–117, November 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9172-9.

Bochmann:2020:SFA

[BKP20] Maximilian Bochmann, Lutz Kämmerer, and Daniel Potts. A sparse FFT approach for ODE with random coefficients. *Advances in Computational Mathematics*, 46 (5):??, October 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09807-w.

Burela:2025:PMO

[BKR25] Shubhaditya Burela, Philipp Krah, and Julius Reiss. Parametric model order reduction for a wildland fire model via the shifted POD-based deep learning method. *Advances in Computational Mathematics*,

51(1):??, February 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10220-4`.

Bouhamidi:1999:MIS

[BL99] A. Bouhamidi and A. Le Méhauté. Multivariate interpolating (m, l, s)-splines. *Advances in Computational Mathematics*, 11(4):287–314, December 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018940429434`.

Bardsley:2009:TVP

[BL09] Johnathan M. Bardsley and Aaron Luttman. Total variation-penalized Poisson likelihood estimation for ill-posed problems. *Advances in Computational Mathematics*, 31(1–3):35–59, October 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9081-8`.

Blesgen:2007:CEE

[Ble07] T. Blesgen. On the competition of elastic energy and surface energy in discrete numerical schemes. *Advances in Computational Mathematics*, 27(2):179–194, August 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9028-5`.

Ben-loghfyry:2023:NRF

[BlH23] Anouar Ben-loghfyry and Abdelilah Hakim. A novel robust fractional-time anisotropic diffusion for multi-frame image super-resolution. *Advances in Computational Mathematics*, 49(6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10079-3`.

Bercovier:2002:DPP

[BLP02] Michel Bercovier, Moshe Luzon, and Elan Pavlov. Detecting planar patches in an unorganised set of points in space. *Advances in Computational Mathematics*, 17(1–2):153–166, July 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1015285722950`. Advances in geometrical algorithms and representations.

Bodmann:2019:SPC

[BLP19] Bernhard G. Bodmann, Demetrio Labate, and Basanta R. Pahari. Smooth projections and the construction of smooth Parseval frames of shearlets.

Advances in Computational Mathematics, 45(5–6):3241–3264, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09736-3`.

Bozzini:2002:AIS

[BLS02] Mira Bozzini, Licia Lenarduzzi, and Robert Schaback. Adaptive interpolation by scaled multiquadrics. *Advances in Computational Mathematics*, 16 (4):375–387, May 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014584220418`.

Bonnet:2020:SOS

[BLV20] Marc Bonnet, Ruowen Liu, and Shravan Veerapaneni. Shape optimization of Stokesian peristaltic pumps using boundary integral methods. *Advances in Computational Mathematics*, 46 (2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09761-7`.

BenSalah:2000:CBS

[BM00] I. Ben Salah and P. Maroni. The connection between self-associated two-dimensional vector functionals and third degree forms. *Advances in Computational Mathematics*, 13(1):51–77, April 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018941924408`.

Bilato:2014:AFH

[BMB14] Roberto Bilato, Omar Maj, and Marco Brambilla. An algorithm for fast Hilbert transform of real functions. *Advances in Computational Mathematics*, 40(5–6):1159–1168, December 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9345-4`.

Behera:2015:MAG

[BMK15] Ratikanta Behera, Mani Mehra, and N. K.-R. Kevlahan. Multilevel approximation of the gradient operator on an adaptive spherical geodesic grid. *Advances in Computational Mathematics*, 41(3):663–689, June 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9382-z`.

Bustinza:2026:PNE

[BMLC26] Rommel Bustinza and Jonathan Munguia-La-Cotera. An a priori L^2-norm error estimate of the hybrid high-order method for a class of strongly

monotone nonlinear elliptic problems. *Advances in Computational Mathematics*, 52 (4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10329-0`.

Bobade:2019:AEN

[BMP+19] Parag Bobade, Suprotim Majumdar, Savio Pereira, Andrew J. Kurdila, and John B. Ferris. Adaptive estimation for nonlinear systems using reproducing kernel Hilbert spaces. *Advances in Computational Mathematics*, 45(2): 869–896, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9639-z`.

Benac:2020:OFD

[BMRS20] María J. Benac, Pedro Massey, Mariano Ruiz, and Demetrio Stojanoff. Optimal frame designs for multitasking devices with weight restrictions. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09762-6`.

Bermudez:2016:TEC

[BMSR+16] A. Bermúdez, R. Muñoz-Sola, C. Reales, R. Rodríguez, and P. Salgado. A transient eddy current problem on a moving domain. Numerical analysis. *Advances in Computational Mathematics*, 42(4):757–789, August 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9441-0`.

Boyd:2001:BM

[BMSZ01] Geoff Boyd, Charles A. Micchelli, Gilbert Strang, and Ding-Xuan Zhou. Binomial matrices. *Advances in Computational Mathematics*, 14 (4):379–391, May 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1012207124894`.

Balabanov:2019:RLA

[BN19] Oleg Balabanov and Anthony Nouy. Randomized linear algebra for model reduction. Part I: Galerkin methods and error estimation. *Advances in Computational Mathematics*, 45(5–6):2969–3019, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09725-6`.

Balabanov:2021:RLA

[BN21] Oleg Balabanov and Anthony Nouy. Randomized

linear algebra for model reduction — Part II: minimal residual methods and dictionary-based approximation. *Advances in Computational Mathematics*, 47 (2):??, April 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09836-5`.

Bajpai:2014:TGF

[BNP14] Saumya Bajpai, Neela Nataraj, and Amiya K. Pani. On a two-grid finite element scheme for the equations of motion arising in Kelvin–Voigt model. *Advances in Computational Mathematics*, 40(5–6):1043–1071, December 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9340-1`.

Bonizzoni:2020:LSP

[BNPP20] Francesca Bonizzoni, Fabio Nobile, Ilaria Perugia, and Davide Pradovera. Least-squares Padé approximation of parametric and stochastic Helmholtz maps. *Advances in Computational Mathematics*, 46(3):??, June 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09749-3`.

Barthelmann:2000:HDP

[BNR00] Volker Barthelmann, Erich Novak, and Klaus Ritter. High dimensional polynomial interpolation on sparse grids. *Advances in Computational Mathematics*, 12(4): 273–288, March 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018977404843`. Multivariate polynomial interpolation.

Bochniak:2004:DSF

[Boc04] Marius Bochniak. The dual singular function method for 2D boundary integral equations. *Advances in Computational Mathematics*, 20(4): 293–310, May 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1027370428226`.

Bochacik:2023:PES

[Boc23] Tomasz Bochacik. On the properties of the exceptional set for the randomized Euler and Runge–Kutta schemes. *Advances in Computational Mathematics*, 49 (2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10012-8`.

Benner:2015:MOR

[BOP+15] Peter Benner, Mario Ohlberger, Anthony T. Patera, Gianluigi Rozza, Danny C. Sorensen, and Karsten Urban. Model order reduction of parameterized systems (MoRePaS): Preface to the special issue of advances in computational mathematics. *Advances in Computational Mathematics*, 41(5): 955–960, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9443-y`; `http://link.springer.com/content/pdf/10.1007/s10444-015-9443-y.pdf`.

Baker:1993:PCR

[BP93] Christopher T. H. Baker and Christopher A. H. Paul. Parallel continuous Runge–Kutta methods and vanishing lag delay differential equations. *Advances in Computational Mathematics*, 1(3): 367–394, October 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02072017`.

Bru:2011:PNA

[BP11] Rafael Bru and Juan Manuel Peña. Preface: numerical and applied linear algebra. *Advances in Computational Mathematics*, 35(2–4): 99–102, November 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9170-y`; `http://link.springer.com/content/pdf/10.1007/s10444-011-9170-y.pdf`.

Bermudez:2002:HAC

[BPJ02] A. Bermúdez, D. Gómez Pedreira, and P. Joly. A hybrid approach for the computation of guided modes in integrated optics. *Advances in Computational Mathematics*, 16(2–3):229–261, April 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014454317209`. Modeling and computation in optics and electromagnetics.

Bramble:1996:SPA

[BPK96] James H. Bramble, Joseph E. Pasciak, and Andrew V. Knyazev. A subspace preconditioning algorithm for eigenvector/eigenvalue computation. *Advances in Computational Mathematics*, 6(1):159–189, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127702`.

Baker:1995:INS

[BPW95] C. T. H. Baker, C. A. H.

Paul, and D. R. Willé. Issues in the numerical solution of evolutionary delay differential equations. *Advances in Computational Mathematics*, 3(1–2):171–196, January 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02988625`.

Baroli:2013:CSD

[BQRB13] Davide Baroli, Alfio Quarteroni, and Ricardo Ruiz-Baier. Convergence of a stabilized discontinuous Galerkin method for incompressible nonlinear elasticity. *Advances in Computational Mathematics*, 39(2):425–443, August 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9286-8`.

Brezinski:2007:CSK

[BR07] C. Brezinski and M. Raydan. Cauchy–Schwarz and Kantorovich type inequalities for scalar and matrix moment sequences. *Advances in Computational Mathematics*, 26(1–3):71–80, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7646-8`.

Bosner:2013:VDP

[BR13] Tina Bosner and Mladen Rogina. Variable degree polynomial splines are Chebyshev splines. *Advances in Computational Mathematics*, 38(2):383–400, February 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9242-z`.

Buscaglia:2015:AMD

[BR15] Gustavo Buscaglia and Vitoriano Ruas. Approximation of the multi-dimensional Stokes system with embedded pressure discontinuities. *Advances in Computational Mathematics*, 41(3):599–634, June 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9378-8`.

Borges:2022:MIO

[BR22] Carlos Borges and Manas Rachh. Multifrequency inverse obstacle scattering with unknown impedance boundary conditions using recursive linearization. *Advances in Computational Mathematics*, 48(1):??, February 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09915-1`.

Buccini:2023:LMR

[BR23] Alessandro Buccini and Lothar Reichel. Limited memory restarted l^p–l^q minimization methods using generalized Krylov subspaces. *Advances in Computational Mathematics*, 49 (2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10020-8`.

Brandts:2001:CRE

[Bra01] Jan Brandts. The Cauchy–Riemann equations: discretization by finite elements, fast solution of the second variable, and a posteriori error estimation. *Advances in Computational Mathematics*, 15(1–4):61–77, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014217225870`. *A posteriori* error estimation and adaptive computational methods.

Brenner:1995:TLA

[Bre95] Susanne C. Brenner. A two-level additive Schwarz preconditioner for the stationary Stokes equations. *Advances in Computational Mathematics*, 4(1–2):111–126, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02123475`.

Bremer:2019:ARN

[Bre19] James Bremer. An algorithm for the rapid numerical evaluation of Bessel functions of real orders and arguments. *Advances in Computational Mathematics*, 45(1): 173–211, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9613-9`.

Bozzini:2018:DRM

[BRR18] Mira Bozzini, Christophe Rabut, and Milvia Rossini. Decomposition and reconstruction of multidimensional signals by radial functions with tension parameters. *Advances in Computational Mathematics*, 44(4): 1003–1040, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9571-7`.

Bozzini:2013:GWM

[BRS13] Mira Bozzini, Milvia Rossini, and Robert Schaback. Generalized Whittle–Matérn and polyharmonic kernels. *Advances in Computational Mathematics*, 39(1):129–141, July 2013. CODEN ACMHEX.

ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9277-9`.

Bozzini:2015:RKS

[BRSV15] Mira Bozzini, Milvia Rossini, Robert Schaback, and Elena Volontè. Radial kernels via scale derivatives. *Advances in Computational Mathematics*, 41(2):277–291, April 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9366-z`.

Brummelhuis:2023:CNS

[Bru23] Raymond Brummelhuis. Convergence of non-stationary semi-discrete RBF schemes for the heat and wave equation. *Advances in Computational Mathematics*, 49 (5):??, October 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10058-8`.

Brezinski:1994:GEP

[BRZ94] C. Brezinski and M. Redivo-Zaglia. A general extrapolation procedure revisited. *Advances in Computational Mathematics*, 2(4):461–477, September 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02521609`.

Burrage:1997:PIMb

[BS97a] K. Burrage and H. Suhartanto. Parallel iterated method based on multistep Runge–Kutta of Radau type for stiff problems. *Advances in Computational Mathematics*, 7(1–2):59–77, March 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018982432701`. Parallel methods for ODEs.

Burrage:1997:PIMa

[BS97b] K. Burrage and H. Suhartanto. Parallel iterated methods based on multistep Runge–Kutta methods of Radau type. *Advances in Computational Mathematics*, 7(1–2):37–57, March 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018930415863`. Parallel methods for ODEs.

Burrage:2000:PIM

[BS00] K. Burrage and H. Suhartanto. Parallel iterated methods based on variable step-size multistep Runge–Kutta methods of Radau type for stiff problems. *Advances in Computational Mathematics*, 13(3):257–270, July 2000.

CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018906311204.

Bejancu:2005:MAO

[BS05] Aurelian Bejancu and Malcolm A. Sabin. Maximal approximation order for a box-spline semi-cardinal interpolation scheme on the three-direction mesh. *Advances in Computational Mathematics*, 22(3):275–298, April 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-003-2601-7.

Benedetto:2006:TFG

[BS06] John J. Benedetto and Songkiat Sumetkijakan. Tight frames and geometric properties of wavelet sets. *Advances in Computational Mathematics*, 24(1–4):35–56, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-7623-2.

Butzer:2023:BKA

[BS23] P. L. Butzer and R. L. Stens. The Butzer–Kozakiewicz article on Riemann derivatives of 1954 and its influence. *Advances in Computational Mathematics*, 49(6): ??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10086-4.

Bufolo:2024:ALV

[BS24] Gabriel Nóbrega Bufolo and Yuri Dumaresq Sobral. Analysis of the leapfrog-Verlet method applied to the Kuwabara–Kono force model in discrete element method simulations of granular materials. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10162-3.

Belonosov:2019:CAN

[BSK19] Andrey Belonosov, Maxim Shishlenin, and Dmitriy Klyuchinskiy. A comparative analysis of numerical methods of solving the continuation problem for 1D parabolic equation with the data given on the part of the boundary. *Advances in Computational Mathematics*, 45(2): 735–755, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9631-7.

Bouadjila:2022:NAT

[BSSM22] Khaled Bouadjila, Ali Samir

Saad, Mazen Saad, and Wissal Mesfar. Numerical analysis for two-phase flow with non-equilibrium capillary pressure in anisotropic porous media. *Advances in Computational Mathematics*, 48(5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09972-0`.

Beale:2024:ADL

[BST24] J. Thomas Beale, Michael Storm, and Svetlana Tlupova. The adjoint double layer potential on smooth surfaces in $\mathbf{R}^3$ and the Neumann problem. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10111-0`.

Beale:2024:ERN

[BT24] J. Thomas Beale and Svetlana Tlupova. Extrapolated regularization of nearly singular integrals on surfaces. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10161-4`.

Buhmann:1999:F

[Buh99] Martin Buhmann. Foreword. *Advances in Computational Mathematics*, 11(2–3):i, November 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018963607144`.

Buhmann:2006:SIC

[Buh06] M. D. Buhmann. Semi-infinite cardinal interpolation with multiquadrics and beyond. *Advances in Computational Mathematics*, 24(1–4):57–80, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7612-5`.

Bunger:2011:MME

[Bün11] F. Bünger. Minimizing and maximizing the Euclidean norm of the product of two polynomials. *Advances in Computational Mathematics*, 35(2–4):193–215, November 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9158-z`.

Burrage:1997:PMO

[Bur97] Kevin Burrage. Parallel methods for ODEs. *Advances in Computational Mathematics*, 7(1–2):1–3,

March 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018997130884`.

Butcher:1997:OSP

[But97] J. C. Butcher. Order and stability of parallel methods for stiff problems. *Advances in Computational Mathematics*, 7(1–2):79–96, March 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018934516771`. Parallel methods for ODEs.

Bernreuther:2024:ACS

[BV24] Marco Bernreuther and Stefan Volkwein. An adaptive certified space-time reduced basis method for non-smooth parabolic partial differential equations. *Advances in Computational Mathematics*, 50(3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10137-4`.

Butler:2015:LAL

[BW15] Ronald W. Butler and Andrew T. A. Wood. Laplace approximation of Lauricella functions F_A and F_D. *Advances in Computational Mathematics*, 41(6):1451–1473, December 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9397-5`.

Benner:2020:HNA

[BW20] Peter Benner and Steffen W. R. Werner. Hankel-norm approximation of large-scale descriptor systems. *Advances in Computational Mathematics*, 46(3):??, June 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09750-w`.

Bogacki:1997:DBO

[BWX97] Przemysław Bogacki, Stanley Weinstein, and Yuesheng Xu. Distances between oriented curves in geometric modeling. *Advances in Computational Mathematics*, 7(4):593–621, August 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018923609019`.

Bajaj:1994:NAS

[BX94] Chandrajit L. Bajaj and Guo Liang Xu. NURBS approximation of surface/surface intersection curves. *Advances in Computational Mathematics*, 2(1):1–21, January 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http:`

//link.springer.com/article/10.1007/BF02519033.

Ben-yu:2001:JIA

[ByLl01] Guo Ben-yu and Wang Lilian. Jacobi interpolation approximations and their applications to singular differential equations. *Advances in Computational Mathematics*, 14 (3):227–276, April 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1016681018268.

Bertram:2018:TIN

[BZ18] Anna Bertram and Ralf Zimmermann. Theoretical investigations of the new cokriging method for variable-fidelity surrogate modeling. *Advances in Computational Mathematics*, 44(6):1693–1716, December 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-017-9585-1.

Bendokat:2024:CGM

[BZA24a] Thomas Bendokat, Ralf Zimmermann, and P.-A. Absil. Correction: A Grassmann manifold handbook: basic geometry and computational aspects. *Advances in Computational Mathematics*, 50 (2):??, April 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10115-w. See [BZA24b].

Bendokat:2024:GMH

[BZA24b] Thomas Bendokat, Ralf Zimmermann, and P.-A. Absil. A Grassmann manifold handbook: basic geometry and computational aspects. *Advances in Computational Mathematics*, 50 (1):??, February 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10090-8. See correction [BZA24a].

Bittens:2019:DSF

[BZI19] Sina Bittens, Ruochuan Zhang, and Mark A. Iwen. A deterministic sparse FFT for functions with structured Fourier sparsity. *Advances in Computational Mathematics*, 45(2):519–561, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9626-4.

Cai:2002:AIE

[Cai02] Wei Cai. Algorithmic issues for electromagnetic scattering in layered media: Green's functions, current basis, and fast solver. *Advances in Computational Mathematics*, 16(2–3):157–174, April 2002. CODEN

ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014429611757`. Modeling and computation in optics and electromagnetics.

Calvi:2005:IUA

[Cal05] Jean-Paul Calvi. Intertwining unisolvent arrays for multivariate Lagrange interpolation. *Advances in Computational Mathematics*, 23 (4):393–414, November 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1840-6`.

Chui:2006:COM

[CaL06] Charles K. Chui and Jian ao Lian. Construction of orthonormal multi-wavelets with additional vanishing moments. *Advances in Computational Mathematics*, 24 (1–4):239–262, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7610-7`.

Carnicer:1995:MCP

[Car95] J. M. Carnicer. Multivariate convexity preserving interpolation by smooth functions. *Advances in Computational Mathematics*, 3(4): 395–404, May 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02432005`.

Casas:2007:UPL

[Cas07] Eduardo Casas. Using piecewise linear functions in the numerical approximation of semilinear elliptic control problems. *Advances in Computational Mathematics*, 26(1–3):137–153, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-4142-0`.

Chen:2025:LRE

[CB25] Hao Chen and Alfio Borzì. Low-rank exponential integrators for stiff differential Riccati equations. *Advances in Computational Mathematics*, 51(2):??, April 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10228-w`.

Carstensen:2001:ESP

[CBK01] Carsten Carstensen, Sören Bartels, and Roland Klose. An experimental survey of a posteriori Courant finite element error control for the Poisson equation. *Advances in Computational*

Mathematics, 15(1–4):79–106, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014269318616`. *A posteriori* error estimation and adaptive computational methods.

Charkaoui:2026:TNA

[CBLZ26] Abderrahim Charkaoui, Anouar Ben-Loghfyry, and Shengda Zeng. Theoretical and numerical analysis of a nonlinear double-phase variable exponent model for image contrast enhancement. *Advances in Computational Mathematics*, 52(4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10334-3`.

Cheng:1994:CPB

[CC94] Zheng Xing Cheng and Charles K. Chui. Convexity of parametric Bézier surfaces in terms of Gaussian curvature signatures. *Advances in Computational Mathematics*, 2(4):437–459, September 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02521608`.

Casazza:2003:GFI

[CC03] Peter G. Casazza and Ole Christensen. Gabor frames over irregular lattices. *Advances in Computational Mathematics*, 18(2–4):329–344, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021356503075`. Frames.

Cao:2022:SEE

[CC22] Dewei Cao and Hu Chen. Sharp error estimate of Grünwald–Letnikov scheme for a multi-term time fractional diffusion equation. *Advances in Computational Mathematics*, 48(6):??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09999-3`.

Castrillon-Candas:2024:SBL

[CC24] Julio Enrique Castrillón-Candás. Spatial best linear unbiased prediction: a computational mathematics approach for high dimensional massive datasets. *Advances in Computational Mathematics*, 50(3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10132-9`.

Chen:2020:DPN

[CCDL20] Chuchu Chen, David Cohen, Raffaele D'Ambrosio,

and Annika Lang. Drift-preserving numerical integrators for stochastic Hamiltonian systems. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09771-5`.

Cui:2012:REE

[CCE+12] Ming Cui, Zhangxin Chen, Richard E. Ewing, Guan Qin, and Hongsen Chen. Reliable and efficient error control for an adaptive Galerkin-characteristic method for convection-dominated diffusion problems. *Advances in Computational Mathematics*, 37(3):319–353, October 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9210-7`.

Cao:2010:EAF

[CCG10] Yanzhao Cao, Zheng Chen, and Max Gunzburger. Error analysis of finite element approximations of the stochastic Stokes equations. *Advances in Computational Mathematics*, 33(2):215–230, August 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9127-6`.

Choi:2008:TDO

[CCH+08] Hyeong In Choi, Sung Woo Choi, Chang Yong Han, Tae wan Kim, Song-Hwa Kwon, Hwan Pyo Moon, Kyeong Hah Roh, and Nam-Sook Wee. Two-dimensional offsets and medial axis transform. *Advances in Computational Mathematics*, 28(2):171–199, February 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9036-5`.

Calderbank:2011:SFF

[CCH+11] Robert Calderbank, Peter G. Casazza, Andreas Heinecke, Gitta Kutyniok, and Ali Pezeshki. Sparse fusion frames: existence and construction. *Advances in Computational Mathematics*, 35(1):1–31, July 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9162-3`.

Collowald:2015:NRC

[CCH+15] Mathieu Collowald, Annie Cuyt, Evelyne Hubert, Wen-Shin Lee, and Oliver Salazar Celis. Numerical reconstruction of convex polytopes from directional moments. *Advances in Computational Mathematics*, 41(6):1515–1535, December 2015. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9401-0`.

Castrillon-Candas:2020:ARS

[CCK20] Julio E. Castrillón-Candás and Mark Kon. Analytic regularity and stochastic collocation of high-dimensional Newton iterates. *Advances in Computational Mathematics*, 46(3):??, June 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09791-1`.

Conti:2021:SRP

[CCLM21] Costanza Conti, Mariantonia Cotronei, Demetrio Labate, and Wilfredo Molina. Stable recovery of planar regions with algebraic boundaries in Bernstein form. *Advances in Computational Mathematics*, 47(2):??, April 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09843-0`.

Chaudhary:2026:STI

[CCM26] Sudhakar Chaudhary, Shreya Chauhan, and Monica Montardini. Space-time isogeometric method for a nonlocal parabolic problem. *Advances in Computational Mathematics*, 52(1):??, February 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10285-9`.

Charina:2021:JSR

[CCMM21] M. Charina, C. Conti, T. Mejstrik, and J.-L. Merrien. Joint spectral radius and ternary Hermite subdivision. *Advances in Computational Mathematics*, 47(2):??, April 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09854-x`.

Chan:2016:SDF

[CCN+16] Alice Z.-Y. Chan, Martin S. Copenhaver, Sivaram K. Narayan, Logan Stokols, and Allison Theobold. On structural decompositions of finite frames. *Advances in Computational Mathematics*, 42(3):721–756, June 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9440-1`.

Castrillon-Candas:2021:HCP

[CCNT21] Julio E. Castrillón-Candás, Fabio Nobile, and Raúl F. Tempone. A hybrid collocation–perturbation approach for PDEs with random domains. *Advances in Computational Mathematics*, 47(3):??, June 2021. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09859-6.

Claeys:2022:NOS

[CCP22] Xavier Claeys, Francis Collino, and Emile Parolin. Nonlocal optimized Schwarz methods for time-harmonic electromagnetics. *Advances in Computational Mathematics*, 48 (6):??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09987-7.

Conti:2016:FHS

[CCS16] Costanza Conti, Mariantonia Cotronei, and Tomas Sauer. Factorization of Hermite subdivision operators preserving exponentials and polynomials. *Advances in Computational Mathematics*, 42(5):1055–1079, October 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9453-4.

Cai:2009:CAT

[CCSS09] Jian-Feng Cai, Raymond H. Chan, Lixin Shen, and Zuowei Shen. Convergence analysis of tight framelet approach for missing data recovery. *Advances in Computational Mathematics*, 31(1–3):87–113, October 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9084-5.

Charina:2015:SSN

[CD15] Maria Charina and Geir Dahl. Subdivision schemes, network flows and linear optimization. *Advances in Computational Mathematics*, 41 (3):507–528, June 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-014-9371-2.

Cordero:2020:GBJ

[CdGDN20] Elena Cordero, Maurice de Gosson, Monika Dörfler, and Fabio Nicola. Generalized Born–Jordan distributions and applications. *Advances in Computational Mathematics*, 46(4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09788-w.

Chen:2024:EAC

[CDM+24] Minghua Chen, Weihua Deng, Chao Min, Jiankang Shi, and Martin Stynes. Error analysis of a collocation method on graded meshes for a fractional Laplacian

problem. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10146-3`.

Cai:2003:DAH

[CDP03] Zhiqiang Cai, Jim Douglas, Jr., and Moongyu Park. Development and analysis of higher order finite volume methods over rectangles for elliptic equations. *Advances in Computational Mathematics*, 19 (1–3):3–33, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1022841012296`. Challenges in computational mathematics (Pohang, 2001).

Caponnetto:2009:ECC

[CDP09] Andrea Caponnetto, Ernesto De Vito, and Massimiliano Pontil. Entropy conditions for L_r-convergence of empirical processes. *Advances in Computational Mathematics*, 30(4):355–373, May 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9072-9`.

Cui:2025:QMC

[CDP25] Tiangang Cui, Josef Dick, and Friedrich Pillichshammer. Quasi-Monte Carlo methods for mixture distributions and approximated distributions via piecewise linear interpolation. *Advances in Computational Mathematics*, 51(1):??, February 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10223-1`.

Campagna:2022:SIE

[CDPS22] R. Campagna, S. De Marchi, E. Perracchione, and G. Santin. Stable interpolation with exponential-polynomial splines and node selection via greedy algorithms. *Advances in Computational Mathematics*, 48(6):??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09986-8`.

Celorrio:2002:PDD

[CDS02] Ricardo Celorrio, Víctor Domínguez, and Francisco-Javier Sayas. Periodic Dirac delta distributions in the boundary element method. *Advances in Computational Mathematics*, 17(3):211–236, October 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016002302671`.

Cuyt:1999:EMP

[CDTV99] Annie Cuyt, Kathy Driver, Jieqing Tan, and Brigitte Verdonk. Exploring multivariate Padé approximants for multiple hypergeometric series. *Advances in Computational Mathematics*, 10(1): 29–49, January 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018918429917`.

Chertock:2018:HOP

[CEHK18] Alina Chertock, Yekaterina Epshteyn, Hengrui Hu, and Alexander Kurganov. High-order positivity-preserving hybrid finite-volume-finite-difference methods for chemotaxis systems. *Advances in Computational Mathematics*, 44(1):327–350, February 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9545-9`.

Casenave:2015:NRB

[CEL15] Fabien Casenave, Alexandre Ern, and Tony Lelièvre. A nonintrusive reduced basis method applied to aeroacoustic simulations. *Advances in Computational Mathematics*, 41(5):961–986, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9365-0`.

Csetnek:2021:CRB

[CET21] Ernö Robert Csetnek, Andrew Eberhard, and Matthew K. Tam. Convergence rates for boundedly regular systems. *Advances in Computational Mathematics*, 47 (5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09891-6`.

Cerna:2011:COC

[ČF11] Dana Černá and Václav Finěk. Construction of optimally conditioned cubic spline wavelets on the interval. *Advances in Computational Mathematics*, 34(2): 219–252, February 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9152-5`.

Conte:2023:EFM

[CFC23] Dajana Conte and Gianluca Frasca-Caccia. Exponentially fitted methods with a local energy conservation law. *Advances in Computational Mathematics*, 49 (4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.`

springer.com/article/10.1007/s10444-023-10049-9.

Chen:2021:RBL

[CFZ21] Hongtao Chen, Xiaobing Feng, and Zhimin Zhang. A recovery-based linear C^0 finite element method for a fourth-order singularly perturbed Monge–Ampère equation. *Advances in Computational Mathematics*, 47 (2):??, April 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09847-w.

Carnicer:2004:CBC

[CG04] J. M. Carnicer and M. Gasca. Classification of bivariate configurations with simple Lagrange interpolation formulae. *Advances in Computational Mathematics*, 20(1–3):5–16, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1025823727706. Approximation and applications.

Carnicer:2006:ILG

[CG06] J. M. Carnicer and M. Gasca. Interpolation on lattices generated by cubic pencils. *Advances in Computational Mathematics*, 24(1–4):113–130, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-7638-8.

Christensen:2010:POD

[CG10] Ole Christensen and Say Song Goh. Pairs of oblique duals in spaces of periodic functions. *Advances in Computational Mathematics*, 32(3):353–379, April 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-009-9115-x.

Carnicer:2015:NFG

[CG15] J. M. Carnicer and C. Godés. A Newton formula for generalized Berzolari–Radon sets. *Advances in Computational Mathematics*, 41(2):373–386, April 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-014-9362-3.

Cui:2017:FEA

[CG17] Jintao Cui and Thirupathi Gudi. Finite element approximation of a free boundary plasma problem. *Advances in Computational Mathematics*, 43(3):517–535, June 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9495-7.

Carnicer:2019:EPG

[CG19] Jesús M. Carnicer and Carmen Godés. Extensions of planar GC sets and syzygy matrices. *Advances in Computational Mathematics*, 45 (2):655–673, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9630-8`.

Chen:2026:CRB

[CG26] Fang Chen and Chen-Xiao Gao. On convergence of residual-based extended Kaczmarz method for solving inconsistent linear systems. *Advances in Computational Mathematics*, 52 (4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10321-8`.

Cantu-Gonzalez:2019:CSG

[CGDHRÁ+19] José Roberto Cantú-González, O. Díaz-Hernández, Elizeth Ramírez-Álvarez, C. I. Enríquez Flores, A. Flores Rosas, and Gerardo J. Escalera Santos. A computational study of the gene expression in the tryptophan operon with two types of cooperativity. *Advances in Computational Mathematics*, 45(4): 1843–1851, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-09661-x`.

Chen:2020:UOC

[CGG+20] X. Chen, V. Gonzalez, E. Goodman, S. Kang, and K. A. Okoudjou. Universal optimal configurations for the p-frame potentials. *Advances in Computational Mathematics*, 46 (1):??, February 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09745-7`.

Corless:1996:LF

[CGH+96] R. M. Corless, G. H. Gonnet, D. E. G. Hare, D. J. Jeffrey, and D. E. Knuth. On the Lambert W function. *Advances in Computational Mathematics*, 5(1):329–359, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124750; https://nickhigham.wordpress.com/2016/08/23/corless-knuth-and-lambert-w/`.

Chen:2013:NAF

[CGH+13] Huajie Chen, Xingao Gong, Lianhua He, Zhang Yang, and Aihui Zhou. Numerical analysis of finite dimensional approximations of Kohn–Sham models. *Advances in Computational*

Mathematics, 38(2):225–256, February 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9235-y`.

Chen:2023:NAD

[CGHK23] Meng Chen, Rong Gao, Yan He, and Linghua Kong. Numerical analysis of the direct method for 3D Maxwell's equation in Kerr-type nonlinear media. *Advances in Computational Mathematics*, 49(3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10029-z`.

Christensen:2021:TPU

[CGKK21] Ole Christensen, Say Song Goh, Hong Oh Kim, and Rae Young Kim. Translation partitions of unity, symmetry properties, and Gabor frames. *Advances in Computational Mathematics*, 47 (4):??, August 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09851-0`.

Costantini:2001:CSP

[CGM01] P. Costantini, T. N. T. Goodman, and C. Manni. Constructing C^3 shape preserving interpolating space curves. *Advances in Computational Mathematics*, 14(2): 103–127, February 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016664630563`.

Chapko:2018:ISP

[CGM18] Roman Chapko, Drossos Gintides, and Leonidas Mindrinos. The inverse scattering problem by an elastic inclusion. *Advances in Computational Mathematics*, 44(2): 453–476, April 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9550-z`.

Carnicer:1995:GVD

[CGP95] J. M. Carnicer, T. N. T. Goodman, and J. M. Peña. A generalization of the variation diminishing property. *Advances in Computational Mathematics*, 3(4): 375–394, May 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02432004`.

Conti:2011:AIN

[CGR11] Costanza Conti, Luca Gemignani, and Lucia Romani. From approximating to interpolatory non-stationary subdivision schemes with the same generation properties.

Advances in Computational Mathematics, 35(2–4):217–241, November 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9175-6`.

Conti:2013:CAS

[CGR13] Costanza Conti, Luca Gemignani, and Lucia Romani. A constructive algebraic strategy for interpolatory subdivision schemes induced by bivariate box splines. *Advances in Computational Mathematics*, 39(2):395–424, August 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9285-9`.

Cotronei:2015:ADM

[CGRS15] Mariantonia Cotronei, Daniele Ghisi, Milvia Rossini, and Tomas Sauer. An anisotropic directional multiresolution and subdivision scheme. *Advances in Computational Mathematics*, 41(3):709–726, June 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9384-x`.

Cliffe:1993:EDN

[CGS93] K. A. Cliffe, T. J. Garratt, and A. Spence. Eigenvalues of the discretized Navier–Stokes equation with application to the detection of Hopf bifurcations. *Advances in Computational Mathematics*, 1(3):337–356, October 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02072015`.

Cochran:2013:EDT

[CGW13] Doug Cochran, Anne Gelb, and Yang Wang. Edge detection from truncated Fourier data using spectral mollifiers. *Advances in Computational Mathematics*, 38(4):737–762, May 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9258-4`.

Chaulet:2015:EIS

[CH15] N. Chaulet and H. Haddar. Electromagnetic inverse shape problem for coated obstacles. *Advances in Computational Mathematics*, 41(6):1615–1641, December 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9406-3`.

Congreve:2022:TGE

[CH22a] Scott Congreve and Paul Houston. Two-grid *hp*-version discontinuous Galerkin finite element methods for

quasilinear elliptic PDEs on agglomerated coarse meshes. *Advances in Computational Mathematics*, 48(5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09968-w`.

Coppe:2022:EFA

[CH22b] Vincent Coppé and Daan Huybrechs. Efficient function approximation on general bounded domains using splines on a Cartesian grid. *Advances in Computational Mathematics*, 48 (5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09946-2`.

Chen:2002:FDA

[Che02] Yu Chen. A fast, direct algorithm for the Lippmann–Schwinger integral equation in two dimensions. *Advances in Computational Mathematics*, 16(2–3):175–190, April 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014450116300`. Modeling and computation in optics and electromagnetics.

Chen:2006:UCA

[Che06] Yanping Chen. Uniform convergence analysis of finite difference approximations for singular perturbation problems on an adapted grid. *Advances in Computational Mathematics*, 24(1–4):197–212, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7641-0`.

Chionh:2003:PDM

[Chi03] Eng-Wee Chionh. Parallel Dixon matrices by bracket. *Advances in Computational Mathematics*, 19(4):373–383, November 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1024264830187`.

Christensen:2017:ECP

[CHL17] Ole Christensen, Marzieh Hasannasab, and Jakob Lemvig. Explicit constructions and properties of generalized shift-invariant systems in $L^2(\mathbf{R})$. *Advances in Computational Mathematics*, 43 (2):443–472, April 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9492-x`.

Cai:2018:SMD

[CHM18] Mingchao Cai, Peiqi Huang, and Mo Mu. Some multilevel decoupled algorithms for a

mixed Navier–Stokes/Darcy model. *Advances in Computational Mathematics*, 44(1): 115–145, February 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9537-9`.

Calvo:1997:SST

[CHMR97] M. Calvo, D. J. Higham, J. I. Montijano, and L. Rández. Stepsize selection for tolerance proportionality in explicit Runge–Kutta codes. *Advances in Computational Mathematics*, 7(3):361–382, May 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018959222223`.

Chong:1995:PTC

[Cho95] C. T. Chong. The polynomial topological complexity of Fatou–Julia sets. *Advances in Computational Mathematics*, 3(4):369–374, May 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02432003`.

Congreve:2019:ARE

[CHP19] Scott Congreve, Paul Houston, and Ilaria Perugia. Adaptive refinement for *hp*-version Trefftz discontinuous Galerkin methods for the homogeneous Helmholtz problem. *Advances in Computational Mathematics*, 45(1): 361–393, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9621-9`.

Chen:2000:CMB

[CHR00] Di-Rong Chen, Bin Han, and Sherman D. Riemenschneider. Construction of multivariate biorthogonal wavelets with arbitrary vanishing moments. *Advances in Computational Mathematics*, 13 (2):131–165, May 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018950126225`.

Christiansen:2015:PDG

[Chr15] Lasse Hjuler Christiansen. Pairs of dual Gabor frames generated by functions of Hilbert–Schmidt type. *Advances in Computational Mathematics*, 41(6):1537–1554, December 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9402-7`.

Chen:2006:BSA

[CHRX06] Qiuhui Chen, Norden Huang, Sherman Riemenschneider, and Yuesheng Xu. A B-spline approach for empirical mode decompositions. *Advances in Computational*

Mathematics, 24(1–4):171–195, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7614-3`.

Claeys:2017:SKB

[CHS17] X. Claeys, R. Hiptmair, and E. Spindler. Second kind boundary integral equation for multi-subdomain diffusion problems. *Advances in Computational Mathematics*, 43(5):1075–1101, October 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9517-0`.

Cattiaux-Huillard:2020:CES

[CHS20] Isabelle Cattiaux-Huillard and Laura Saini. Characterization and extensive study of cubic and quintic algebraic trigonometric planar PH curves. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09772-4`.

Casanova:2021:CEC

[CHS21] Pedro González Casanova and Víctor Hernández-Santamaría. Carleman estimates and controllability results for fully discrete approximations of 1D parabolic equations. *Advances in Computational Mathematics*, 47 (5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09885-4`.

Chui:2003:CST

[CHSS03] Charles K. Chui, Wenjie He, Joachim Stöckler, and Qiyu Sun. Compactly supported tight affine frames with integer dilations and maximum vanishing moments. *Advances in Computational Mathematics*, 18(2–4):159–187, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021318804341`. Frames.

Cheng:2010:PSI

[CHY10] Jin Cheng, Benny Yiu Chung Hon, and Masahiro Yamamoto. Preface to the special issue on inverse problems. *Advances in Computational Mathematics*, 33(4):381–383, November 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9166-z; http://link.springer.com/content/pdf/10.1007/s10444-010-9166-z.pdf`.

Cui:2011:GMP

[CHY11] Xiaoke Cui, Ken Hayami, and Jun-Feng Yin. Greville's method for preconditioning least squares problems. *Advances in Computational Mathematics*, 35(2–4):243–269, November 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9171-x`.

Cantero:2013:EOP

[CI13] María José Cantero and Arieh Iserles. On expansions in orthogonal polynomials. *Advances in Computational Mathematics*, 38(1):35–61, January 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9225-0`.

Chalmoviansky:2007:NLC

[CJ07] Pavel Chalmovianský and Bert Jüttler. A non-linear circle-preserving subdivision scheme. *Advances in Computational Mathematics*, 27(4):375–400, November 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-9011-y`.

Ciarlet:2024:VMS

[CJ24] Patrick Ciarlet, Jr. and Erell Jamelot. Variational methods for solving numerically magnetostatic systems. *Advances in Computational Mathematics*, 50(1):??, February 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10089-1`.

Christensen:2018:ADG

[CJKK18] Ole Christensen, Augustus J. E. M. Janssen, Hong Oh Kim, and Rae Young Kim. Approximately dual Gabor frames and almost perfect reconstruction based on a class of window functions. *Advances in Computational Mathematics*, 44(5):1519–1535, October 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9595-7`.

Chen:2018:NDA

[CJN18] Linghua Chen, Espen Robstad Jakobsen, and Arvid Naess. On numerical density approximations of solutions of SDEs with unbounded coefficients. *Advances in Computational Mathematics*, 44(3):693–721, June 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9558-4`.

Chen:2022:SII

[CJW22] Shuli Chen, Daijun Jiang, and Haibing Wang. Simultaneous identification of initial value and source strength in a transmission problem for a parabolic equation. *Advances in Computational Mathematics*, 48(6): ??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09983-x`.

Cao:2017:FDS

[CJX17] Yanzhao Cao, Ying Jiang, and Yuesheng Xu. A fast discrete spectral method for stochastic partial differential equations. *Advances in Computational Mathematics*, 43(5):973–998, October 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9513-4`.

Casazza:2003:ENT

[CK03a] Peter G. Casazza and Jelena Kovačević. Equal-norm tight frames with erasures. *Advances in Computational Mathematics*, 18(2–4):387–430, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021349819855`. Frames.

Chae:2003:PSU

[CK03b] Gee Ju Chae and Hong Oh Kim. On the preservation of stability under convolutions. *Advances in Computational Mathematics*, 19(1–3):183–193, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1022811229621`. Challenges in computational mathematics (Pohang, 2001).

Casazza:2007:GGS

[CK07] Peter G. Casazza and Gitta Kutyniok. A generalization of Gram–Schmidt orthogonalization generating all Parseval frames. *Advances in Computational Mathematics*, 27(1):65–78, July 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-7478-1`.

Chadha:2011:MNP

[CK11] Naresh M. Chadha and Natalia Kopteva. Maximum norm a posteriori error estimate for a 3 d singularly perturbed semilinear reaction–diffusion problem. *Advances in Computational Mathematics*, 35 (1):33–55, July 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.`

springer.com/article/10.1007/s10444-010-9163-2.

Cvetkovic:2011:SGG

[CKBP11] Ljiljana Cvetković, Vladimir Kostić, Rafael Bru, and Francisco Pedroche. A simple generalization of Geršgorin's theorem. *Advances in Computational Mathematics*, 35(2–4):271–280, November 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-009-9143-6.

Christensen:2012:GWS

[CKK12] Ole Christensen, Hong Oh Kim, and Rae Young Kim. Gabor windows supported on $[-1, 1]$ and dual windows with small support. *Advances in Computational Mathematics*, 36(4):525–545, May 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9189-0.

Christensen:2016:EWS

[CKK16] Ole Christensen, Hong Oh Kim, and Rae Young Kim. On extensions of wavelet systems to dual pairs of frames. *Advances in Computational Mathematics*, 42(2):489–503, April 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-015-9432-1.

Costantini:1999:DHT

[CKM99] Paolo Costantini, Boris I. Kvasov, and Carla Manni. On discrete hyperbolic tension splines. *Advances in Computational Mathematics*, 11(4):331–354, December 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018988312596.

Conceicao:2013:CSC

[CKP13] Ana C. Conceição, Viktor G. Kravchenko, and José C. Pereira. Computing some classes of Cauchy type singular integrals with *Mathematica* software. *Advances in Computational Mathematics*, 39(2):273–288, August 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-012-9279-7.

Chou:2010:OCA

[CKW10] So-Hsiang Chou, Do Y. Kwak, and K. T. Wee. Optimal convergence analysis of an immersed interface finite element method. *Advances in Computational Mathematics*, 33(2):149–168, August 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL http://link.springer.com/article/10.1007/s10444-009-9122-y.

Cotronei:2002:MCF

[CL02] Mariantonia Cotronei and Maria Laura Lo Cascio. A method for the construction of families of biorthogonal filters with prescribed properties. *Advances in Computational Mathematics*, 17(3): 199–210, October 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1016040516242.

Chen:2007:AEE

[CL07] Wei Chen and Qun Lin. Asymptotic expansion and extrapolation for the eigenvalue approximation of the biharmonic eigenvalue problem by Ciarlet–Raviart scheme. *Advances in Computational Mathematics*, 27(1):95–106, July 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-007-9031-x.

Cahill:2012:DIF

[CL12] Jameson Cahill and Shidong Li. Dimension invariance of finite frames of translates and Gabor frames. *Advances in Computational Mathematics*, 37(4):505–520, November 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9222-3.

Chernih:2016:MMC

[CL16] A. Chernih and Q. T. Le Gia. Multiscale methods with compactly supported radial basis functions for the Stokes problem on bounded domains. *Advances in Computational Mathematics*, 42(5):1187–1208, October 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9458-z.

Choi:2018:LFD

[CL18] Gary Pui-Tung Choi and Lok Ming Lui. A linear formulation for disk conformal parameterization of simply-connected open surfaces. *Advances in Computational Mathematics*, 44(1): 87–114, February 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-017-9536-x.

Chung:2022:PCC

[CL22] Yu-Min Chung and Austin Lawson. Persistence curves: a canonical framework for summarizing persistence diagrams. *Advances in Computational Mathematics*, 48

(1):??, February 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09893-4`.

Cai:2016:UCO

[CLC16] Wentao Cai, Jian Li, and Zhangxin Chen. Unconditional convergence and optimal error estimates of the Euler semi-implicit scheme for a generalized nonlinear Schrödinger equation. *Advances in Computational Mathematics*, 42(6):1311–1330, December 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9463-2`.

Chen:2019:TGF

[CLCH19] Chuanjun Chen, Kang Li, Yanping Chen, and Yunqing Huang. Two-grid finite element methods combined with Crank–Nicolson scheme for nonlinear Sobolev equations. *Advances in Computational Mathematics*, 45(2):611–630, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9628-2`.

Chen:2008:FFD

[CLL08] Guo Chen, Zhilin Li, and Ping Lin. A fast finite difference method for biharmonic equations on irregular domains and its application to an incompressible Stokes flow. *Advances in Computational Mathematics*, 29(2):113–133, August 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9043-6`.

Camp:2006:QIF

[CLLS06] Brian Camp, Tao Lin, Yanping Lin, and Weiwei Sun. Quadratic immersed finite element spaces and their approximation capabilities. *Advances in Computational Mathematics*, 24(1–4):81–112, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-4139-8`.

Chatwin:1996:ADS

[CLM96a] P. C. Chatwin, D. M. Lewis, and N. Mole. Atmospheric diffusion: some new mathematical models. *Advances in Computational Mathematics*, 6(1):227–242, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127705`. John Crank 80th birthday special issue.

Chui:1996:LAC

[CLM96b] C. K. Chui, Xin Li, and H. N. Mhaskar. Limitations of the approximation capabilities of neural networks with one hidden layer. *Advances in Computational Mathematics*, 5(1):233–243, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124745`.

Choi:2002:CAS

[CLM02] Hyeong In Choi, Doo Seok Lee, and Hwan Pyo Moon. Clifford algebra, spin representation, and rational parameterization of curves and surfaces. *Advances in Computational Mathematics*, 17 (1–2):5–48, July 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1015294029079`. Advances in geometrical algorithms and representations.

Calvo:2003:TSH

[CLM03] M. Calvo, M. P. Laburta, and J. I. Montijano. Two-step high order starting values for implicit Runge–Kutta methods. *Advances in Computational Mathematics*, 19 (4):401–412, November 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1024281802353`.

Clain:2018:EPS

[CLM18a] Stéphane Clain, Raphaël Loubère, and Gaspar J. Machado. *A posteriori* stabilized sixth-order finite volume scheme for one-dimensional steady-state hyperbolic equations. *Advances in Computational Mathematics*, 44(2): 571–607, April 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9556-6`. See erratum [CLM18b].

Clain:2018:EEP

[CLM18b] Stéphane Clain, Raphaël Loubère, and Gaspar J. Machado. Erratum to: *A posteriori* stabilized sixth-order finite volume scheme for one-dimensional steady-state hyperbolic equations. *Advances in Computational Mathematics*, 44(2):609, April 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9563-7`. See [CLM18a].

Calvo:2010:APQ

[CLMR10] M. Calvo, M. P. Laburta, J. I. Montijano, and L. Rández. Approximate preservation of quadratic first integrals by explicit Runge–Kutta meth-

ods. *Advances in Computational Mathematics*, 32(3): 255–274, April 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9105-4`.

Calvo:2015:RKP

[CLMR15] M. Calvo, M. P. Laburta, J. I. Montijano, and L. Rández. Runge–Kutta projection methods with low dispersion and dissipation errors. *Advances in Computational Mathematics*, 41(1):231–251, February 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9355-2`.

Cimrman:2019:MFE

[CLR19] Robert Cimrman, Vladimír Lukes, and Eduard Rohan. Multiscale finite element calculations in Python using SfePy. *Advances in Computational Mathematics*, 45(4): 1897–1921, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09666-0`.

Chen:2002:NOE

[CLZ02] Zhongying Chen, Ronghua Li, and Aihui Zhou. A note on the optimal L^2-estimate of the finite volume element method. *Advances in Computational Mathematics*, 16 (4):291–303, May 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014577215948`.

Chen:2013:UEE

[CLZW13] Hongtao Chen, Qun Lin, Junming Zhou, and Hong Wang. Uniform error estimates for triangular finite element solutions of advection–diffusion equations. *Advances in Computational Mathematics*, 38(1):83–100, January 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9228-x`.

Chen:1996:HMM

[CM96] Chunhui Chen and O. L. Mangasarian. Hybrid misclassification minimization. *Advances in Computational Mathematics*, 5(1):127–136, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124738`.

Carrig:1999:POC

[CM99] James J. Carrig, Jr. and Gerard G. L. Meyer. A parameterized ordering for cache-, register- and pipeline-efficient Givens QR decompo-

sition. *Advances in Computational Mathematics*, 10(1): 97–113, January 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018970413988`.

Costantini:2003:SPI

[CM03] P. Costantini and C. Manni. Shape-preserving C^3 interpolation: the curve case. *Advances in Computational Mathematics*, 18(1):41–63, January 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021270530342`.

Christensen:2012:EBS

[CM12] Ole Christensen and Peter Massopust. Exponential B-splines and the partition of unity property. *Advances in Computational Mathematics*, 37(3):301–318, October 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9208-1`.

Chernov:2021:EHV

[CMM21] A. Chernov, C. Marcati, and L. Mascotto. p — and hp — virtual elements for the Stokes problem. *Advances in Computational Mathematics*, 47(2):??, April 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09831-w`.

Carnicer:2003:RS

[CMP03] J. M. Carnicer, E. Mainar, and J. M. Peña. Restricted systems. *Advances in Computational Mathematics*, 18(1): 79–90, January 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021267126479`.

Cachafeiro:2007:OPR

[CMP07a] A. Cachafeiro, F. Marcellán, and C. Pérez. Orthogonal polynomials with respect to the sum of an arbitrary measure and a Bernstein–Szegő measure. *Advances in Computational Mathematics*, 26(1–3):81–104, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7644-x`.

Carnicer:2007:SPR

[CMP07b] J. M. Carnicer, E. Mainar, and J. M. Peña. Shape preservation regions for six-dimensional spaces. *Advances in Computational Mathematics*, 26(1–3):121–136, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.`

springer.com/article/10.1007/s10444-005-7505-2.

Campi:2021:LVS

[CMP21] C. Campi, F. Marchetti, and E. Perracchione. Learning via variably scaled kernels. *Advances in Computational Mathematics*, 47 (4):??, August 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09875-6.

Carnicer:2023:SRF

[CMP23] J. M. Carnicer, E. Mainar, and J. M. Peña. On the stability of the representation of finite rank operators. *Advances in Computational Mathematics*, 49 (4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10057-9.

Calvo:2007:EMR

[CMR07] M. Calvo, J. I. Montijano, and L. Rández. On explicit multi-revolution Runge–Kutta schemes. *Advances in Computational Mathematics*, 26(1–3):105–120, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-7209-z.

Chu:2022:SSB

[CMR22] Ba-Duong Chu, Florian Martin, and Ulrich Reif. Stabilization of spline bases by extension. *Advances in Computational Mathematics*, 48 (3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09945-3.

Cotronei:2023:HMM

[CMSS23] Mariantonia Cotronei, Caroline Moosmüller, Tomas Sauer, and Nada Sissouno. Hermite multiwavelets for manifold-valued data. *Advances in Computational Mathematics*, 49(3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10042-2.

Chen:1997:PGM

[CMX97] Zhongying Chen, Charles A. Micchelli, and Yuesheng Xu. The Petrov–Galerkin method for second kind integral equations. II. Multiwavelet schemes. *Advances in Computational Mathematics*, 7(3): 199–233, May 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018994802659.

Chen:2002:DWP

[CMX02] Zhongying Chen, Charles A. Micchelli, and Yuesheng Xu. Discrete wavelet Petrov–Galerkin methods. *Advances in Computational Mathematics*, 16(1):1–28, January 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014273420351`.

Chen:2007:MCP

[CMX07] Qiuhui Chen, Charles A. Micchelli, and Yuesheng Xu. On the matrix completion problem for multivariate filter bank construction. *Advances in Computational Mathematics*, 26(1–3): 173–204, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-7535-9`.

Cheng:2026:CAT

[CMZ26] Lan Cheng, Cun-Qiang Miao, and Yue-Yang Zhang. Chebyshev accelerating technique for solving generalized non-symmetric eigenvalue problems. *Advances in Computational Mathematics*, 52 (1):??, February 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10287-7`.

Crank:1996:PMN

[CN96] J. Crank and P. Nicolson. A practical method for numerical evaluation of solutions of partial differential equations of the heat-conduction type [reprint of MR0019410 (8,409b)]. *Advances in Computational Mathematics*, 6(1):207–226, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127704`. John Crank 80th birthday special issue.

Cope:1998:RGG

[Cop98] Davis K. Cope. Recursive generation of the Galerkin–Chebyshev matrix for convolution kernels. *Advances in Computational Mathematics*, 9(1–2):21–35, September 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018933305810`. Numerical treatment of boundary integral equations.

Carnicer:1993:SPR

[CP93] J. M. Carnicer and J. M. Peña. Shape preserving representations and optimality of the Bernstein basis. *Advances in Computational Mathematics*, 1(2): 173–196, June 1993. CO-

DEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02071384`.

Chen:1999:QWA

[CP99] Han-Lin Chen and Si-Long Peng. A quasi-wavelet algorithm for second kind boundary integral equations. *Advances in Computational Mathematics*, 11(4):355–375, December 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018992413504`.

Chen:2003:LDP

[CP03] Han-Lin Chen and Si-Long Peng. Localization of dual periodic scaling and wavelet functions. *Advances in Computational Mathematics*, 19(1–3):195–210, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1022882423107`. Challenges in computational mathematics (Pohang, 2001).

Costantini:2004:SPA

[CP04] Paolo Costantini and Francesca Pelosi. Shape-preserving approximation of spatial data. *Advances in Computational Mathematics*, 20(1–3):25–51, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1025803122254`. Approximation and applications.

Carnicer:2007:WMG

[CP07a] J. M. Carnicer and J. M. Peña. The work of Mariano Gasca. *Advances in Computational Mathematics*, 26(1–3):1–8, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-006-9024-1`.

Costantini:2007:SPH

[CP07b] Paolo Costantini and Francesca Pelosi. Shape preserving histogram approximation. *Advances in Computational Mathematics*, 26(1–3):205–230, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-8008-2`.

Casazza:2014:WFF

[CP14] Peter G. Casazza and Jesse Peterson. Weighted fusion frame construction via spectral tetris. *Advances in Computational Mathematics*, 40 (2):335–351, April 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.`

springer.com/article/10.1007/s10444-013-9310-7.

Chernov:2015:STP

[CP15] Alexey Chernov and Duong Pham. Sparse tensor product spectral Galerkin BEM for elliptic problems with random input data on a spheroid. *Advances in Computational Mathematics*, 41(1):77–104, February 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-014-9350-7.

Calvetti:1999:IEJ

[CR99] D. Calvetti and L. Reichel. On an inverse eigenproblem for Jacobi matrices. *Advances in Computational Mathematics*, 11(1):11–20, July 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018951304418.

Christensen:2008:FPW

[CR08] Ole Christensen and Asghar Rahimi. Frame properties of wave packet systems in $L^2(\mathbf{R}^d)$. *Advances in Computational Mathematics*, 29(2):101–111, August 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-007-9038-3.

Canuto:2023:PEA

[CR23] Claudio Canuto and Davide Rosso. A posteriori error analysis and adaptivity for a VEM discretization of the Navier–Stokes equations. *Advances in Computational Mathematics*, 49(6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10081-9.

Champneys:1993:HHO

[CS93] Alan R. Champneys and Alastair Spence. Hunting for homoclinic orbits in reversible systems: a shooting technique. *Advances in Computational Mathematics*, 1(1):81–108, February 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02070822.

Chui:1994:CTS

[CS94] Charles K. Chui and Xian Liang Shi. Continuous two-scale equations and dyadic wavelets. *Advances in Computational Mathematics*, 2(2):185–213, March 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02521107.

Christensen:2003:FSB

[CS03] Ole Christensen and Diana T. Stoeva. p-Frames in separable Banach spaces. *Advances in Computational Mathematics*, 18(2–4):117–126, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021364413257`. Frames.

Cavaretta:2006:ORI

[CS06] A. S. Cavaretta and A. Sharma. Optimal recovery of interpolation operators in Hardy spaces. *Advances in Computational Mathematics*, 24(1–4):131–141, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-4134-0`.

Cheng:2018:CAM

[CS18] Xiaodong Cheng and Jacquelien M. A. Scherpen. Clustering approach to model order reduction of power networks with distributed controllers. *Advances in Computational Mathematics*, 44(6):1917–1939, December 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9617-5`.

Chen:2019:SCA

[CS19] Feng Chen and Jie Shen. Stability and convergence analysis of rotational velocity correction methods for the Navier–Stokes equations. *Advances in Computational Mathematics*, 45(5–6):3123–3136, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09729-2`.

Cuyt:2018:MEA

[CsL18] Annie Cuyt and Wen shin Lee. Multivariate exponential analysis from the minimal number of samples. *Advances in Computational Mathematics*, 44(4):987–1002, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9570-8`.

Chui:1998:AFQ

[CSS98] Charles K. Chui, Xianliang Shi, and Joachim Stöckler. Affine frames, quasi-affine frames, and their duals. *Advances in Computational Mathematics*, 8(1–2):1–17, January 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018975725857`.

Chui:1996:AWG

[CSW96] C. K. Chui, J. Stöckler, and J. D. Ward. Analytic wavelets generated by radial functions. *Advances in Computational Mathematics*, 5(1): 95–123, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124736`.

Chernih:2014:WFI

[CSW14] A. Chernih, I. H. Sloan, and R. S. Womersley. Wendland functions with increasing smoothness converge to a Gaussian. *Advances in Computational Mathematics*, 40(1):185–200, February 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9304-5`.

Cong:1999:RKN

[CSWP99] Nguyen Huu Cong, Karl Strehmel, Rüdiger Weiner, and Helmut Podhaisky. Runge–Kutta–Nyström-type parallel block predictor–corrector methods. *Advances in Computational Mathematics*, 10 (2):115–133, February 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018930732643`.

Cui:2026:KFB

[CSZ26] Ping Cui, Zi-Han Song, and Zhuo-Fei Zhang. A Kalman filter-based variational method for ECG tensor denoising. *Advances in Computational Mathematics*, 52(4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10337-0`.

Capobianco:2005:IPW

[CT05] M. R. Capobianco and W. Themistoclakis. Interpolating polynomial wavelets on $[-1, 1]$. *Advances in Computational Mathematics*, 23 (4):353–374, November 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1828-2`.

Choi:2017:GBE

[CT17a] Young Ok Choi and Johannes Tausch. The Galerkin boundary element method for transient Stokes flow. *Advances in Computational Mathematics*, 43(3):473–493, June 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9493-9`.

Cuong:2017:WBV

[CT17b] Dao Huy Cuong and Mai Duc Thanh. A well-balanced van Leer-type numerical scheme for shallow water equations with variable topography. *Advances in Computational Mathematics*, 43(5):1197–1225, October 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9521-4`.

Cheng:2021:GCF

[CtTB21] Hanz Martin Cheng and Jan ten Thije Boonkkamp. A generalised complete flux scheme for anisotropic advection–diffusion equations. *Advances in Computational Mathematics*, 47(2):??, April 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09846-x`.

Cheung:2002:SLL

[CTZ02] Hoi Ling Cheung, Canqin Tang, and Ding-Xuan Zhou. Supports of locally linearly independent M-refinable functions, attractors of iterated function systems and tilings. *Advances in Computational Mathematics*, 17(3):257–268, October 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1011906532250`.

Cullum:1996:IMS

[Cul96] Jane Cullum. Iterative methods for solving $Ax = b$, GMRES/FOM versus QMR/BiCG. *Advances in Computational Mathematics*, 6(1):1–24, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127693`.

Cuminato:1996:NSC

[Cum96] Jose A. Cuminato. Numerical solution of Cauchy-type integral equations of index -1 by collocation methods. *Advances in Computational Mathematics*, 6(1):47–64, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127695`.

Chen:2023:ACA

[CV23] Kewang Chen and Cornelis Vuik. Asymptotic convergence analysis and influence of initial guesses on composite Anderson acceleration. *Advances in Computational Mathematics*, 49(6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10095-3`.

Chui:2009:PMA

[CW09] Charles K. Chui and Jianzhong Wang. PDE models associated with the bilateral filter. *Advances in Computational Mathematics*, 31(1–3): 131–156, October 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9095-2`.

Carl:2016:VLS

[CW16] Wolfgang Carl and Johannes Wallner. Variational Laplacians for semidiscrete surfaces. *Advances in Computational Mathematics*, 42(6):1491–1509, December 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9472-1; http://link.springer.com/content/pdf/10.1007/s10444-016-9472-1.pdf`.

Che:2019:RAA

[CW19] Maolin Che and Yimin Wei. Randomized algorithms for the approximations of Tucker and the tensor train decompositions. *Advances in Computational Mathematics*, 45(1):395–428, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9622-8`.

Chandler-Wilde:1995:EBI

[CWLH95] S. N. Chandler-Wilde, J. Levesley, and D. M. Hough. Evaluation of a boundary integral representation for the conformal mapping of the unit disk onto a simply-connected domain. *Advances in Computational Mathematics*, 3(1–2): 115–135, January 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF03028363`.

Chen:2024:SQE

[CWW24] Hongjia Chen, Teng Wang, and Xiang Wang. Solving the quadratic eigenvalue problem expressed in non-monomial bases by the tropical scaling. *Advances in Computational Mathematics*, 50(6): ??, December 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10214-8`.

Chen:2006:MAM

[CWX06] Zhongying Chen, Bin Wu, and Yuesheng Xu. Multilevel augmentation methods for differential equations. *Advances in Computational Mathematics*, 24(1–4):213–238, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL http://link.springer.com/article/10.1007/s10444-004-4092-6.

Chen:2012:HOF

[CWX12] Zhongying Chen, Junfeng Wu, and Yuesheng Xu. Higher-order finite volume methods for elliptic boundary value problems. *Advances in Computational Mathematics*, 37(2):191–253, August 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9201-8.

Cao:2024:RGD

[CWX24] Zhengbang Cao, Yimin Wei, and Pengpeng Xie. Randomized GCUR decompositions. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10168-x.

Che:2025:EAT

[CWY25] Maolin Che, Yimin Wei, and Hong Yan. Efficient algorithms for Tucker decomposition via approximate matrix multiplication. *Advances in Computational Mathematics*, 51(3):??, June 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10232-0.

Chen:2004:CAN

[CX04] Qiuhui Chen and Yuesheng Xu. The cascade algorithm for the numerical computation of refinable functions. *Advances in Computational Mathematics*, 20(1–3):17–24, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1025844410775. Approximation and applications.

Chen:2006:CMS

[CX06] Di-Rong Chen and Dao-Hong Xiang. The consistency of multicategory support vector machines. *Advances in Computational Mathematics*, 24(1–4):155–169, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-7207-1.

Ciloglu:2023:SDG

[ÇY23] Pelin Çiloglu and Hamdullah Yücel. Stochastic discontinuous Galerkin methods for robust deterministic control of convection–diffusion equations with uncertain coefficients. *Advances in Computational Mathematics*, 49 (2):??, April 2023. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10015-5.

Cheng:2019:NCS

[CZ19] Li Cheng and Xinlong Zhou. A new computable sufficient condition for the convergence of subdivision schemes with nonnegative masks. *Advances in Computational Mathematics*, 45(3): 1273–1290, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-09656-8.

Chen:2020:SOE

[CZ20] Rui Chen and Hui Zhang. Second-order energy stable schemes for the new model of the Cahn–Hilliard–MHD equations. *Advances in Computational Mathematics*, 46 (6):??, December 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09822-x.

Chen:2016:FPA

[CZS16] Dai-Qiang Chen, Yan Zhou, and Li-Juan Song. Fixed point algorithm based on adapted metric method for convex minimization problem with application to image deblurring. *Advances in Computational Mathematics*, 42(6):1287–1310, December 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9462-3.

Cao:2017:SIF

[CZZ17] Waixiang Cao, Xu Zhang, and Zhimin Zhang. Superconvergence of immersed finite element methods for interface problems. *Advances in Computational Mathematics*, 43(4):795–821, August 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9507-7.

Dadi:2017:DTC

[Dad17] Z. Dadi. Dynamics of two-cell systems with discrete delays. *Advances in Computational Mathematics*, 43(3): 653–676, June 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9501-0.

Dahmen:1995:P

[Dah95] Wolfgang Dahmen. Preface. *Advances in Computational Mathematics*, 4(1–2): iii–iv, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02123470.

Dai:2016:NDD

[Dai16] Ping-Fan Dai. A note on diagonal dominance, Schur complements and some classes of H-matrices and P-matrices. *Advances in Computational Mathematics*, 42 (1):1–4, February 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9375-y`.

Damelin:2007:PBO

[Dam07] S. B. Damelin. Pointwise bounds of orthogonal expansions on the real line via weighted Hilbert transforms. *Advances in Computational Mathematics*, 26(4): 451–471, May 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-7472-7`.

Dar:2025:CVE

[DAN25] Zaffar Mehdi Dar, M. Arrutselvi, and Sundararajan Natarajan. A conforming virtual element method for Emden–Fowler model over polygonal meshes. *Advances in Computational Mathematics*, 51(6):??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10260-w`.

Diop:2013:PBI

[DAP13] El Hadji S. Diop, Radjesvarane Alexandre, and Valérie Perrier. A PDE based and interpolation-free framework for modeling the sifting process in a continuous domain. *Advances in Computational Mathematics*, 38 (4):801–835, May 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9260-x`.

Daras:2003:GPT

[Dar03] Nicholas J. Daras. Generalized Padé-type approximation and integral representations. *Advances in Computational Mathematics*, 18(1): 1–39, January 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021273702443`.

Davydov:2023:EBL

[Dav23] Oleg Davydov. Error bounds for a least squares meshless finite difference method on closed manifolds. *Advances in Computational Mathematics*, 49(4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10044-0`.

deBoor:2000:CAM

[dB00] Carl de Boor. Computational aspects of multivariate polynomial interpolation: indexing the coefficients. *Advances in Computational Mathematics*, 12(4): 289–301, March 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018929521682`. Multivariate polynomial interpolation.

deBoor:2006:IRP

[dB06] Carl de Boor. On interpolation by radial polynomials. *Advances in Computational Mathematics*, 24(1–4): 143–153, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7630-3`.

deBoor:2007:ISS

[dB07] C. de Boor. Interpolation from spaces spanned by monomials. *Advances in Computational Mathematics*, 26(1–3):63–70, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-7538-6`.

daCunha:2007:DBG

[dCB07] R. D. da Cunha and D. Becker. Dynamic block GMRES: an iterative method for block linear systems. *Advances in Computational Mathematics*, 27(4):423–448, November 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-006-9012-5`.

deCarvalho:2020:CNP

[dCFCF20] Pitágoras Pinheiro de Carvalho, Enrique Fernández-Cara, and Juan Bautista Límaco Ferrel. On the computation of Nash and Pareto equilibria for some bi-objective control problems for the wave equation. *Advances in Computational Mathematics*, 46 (5):??, October 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09812-z`.

Davies:1994:TMN

[DD94] Penny J. Davies and Dugald B. Duncan. Time-marching numerical schemes for the electric field integral equation on a straight thin wire. *Advances in Computational Mathematics*, 2(3): 279–317, April 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02521113`.

Duan:2023:RCG

[DDLL23] Shan-Qi Duan, Xue-Feng Duan, Chun-Mei Li, and Jiao-Fen Li. Riemannian conjugate gradient method for low-rank tensor completion. *Advances in Computational Mathematics*, 49 (3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10036-0`.

DAmbrosio:2014:NIH

[DDP14] Raffaele D'Ambrosio, Giuseppe De Martino, and Beatrice Paternoster. Numerical integration of Hamiltonian problems by G-symplectic methods. *Advances in Computational Mathematics*, 40(2): 553–575, April 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9318-z`.

DeVilliers:2006:RFS

[De 06] Johan De Villiers. On refinable functions and subdivision with positive masks. *Advances in Computational Mathematics*, 24(1–4):281–295, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7628-x`.

DellAcqua:2017:NTB

[Del17] Pietro Dell'Acqua. A note on Taylor boundary conditions for accurate image restoration. *Advances in Computational Mathematics*, 43(6):1283–1304, December 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9525-0`.

Derriennic:2004:SPP

[Der04] Marie Madeleine Derriennic. Shape preserving polynomial curves. *Advances in Computational Mathematics*, 20 (4):273–292, May 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1027303701445`.

Dolz:2021:FOM

[DES21] J. Dölz, H. Egger, and V. Shashkov. A fast and oblivious matrix compression algorithm for Volterra integral operators. *Advances in Computational Mathematics*, 47(6):??, December 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09902-6`.

Du:2026:GCI

[DF26] Kui Du and Jia-Jun Fan. GP-

CMRH: an inner product free iterative method for block two-by-two nonsymmetric linear systems. *Advances in Computational Mathematics*, 52(2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10299-3`.

deFrutos:2018:AGD

[dFGAJN18] Javier de Frutos, Bosco García-Archilla, Volker John, and Julia Novo. Analysis of the grad–div stabilization for the time-dependent Navier–Stokes equations with inf–sup stable finite elements. *Advances in Computational Mathematics*, 44(1):195–225, February 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9540-1`.

Dakroub:2023:PEE

[DFOS23] Jad Dakroub, Joanna Faddoul, Pascal Omnes, and Toni Sayah. A posteriori error estimates for the time-dependent Navier–Stokes system coupled with the convection–diffusion–reaction equation. *Advances in Computational Mathematics*, 49(4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10066-8`.

Dahlke:2007:AFM

[DFR07] Stephan Dahlke, Massimo Fornasier, and Thorsten Raasch. Adaptive frame methods for elliptic operator equations. *Advances in Computational Mathematics*, 27(1):27–63, July 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-7501-6`.

Du:2024:KSM

[DFS+24] Kui Du, Jia-Jun Fan, Xiao-Hui Sun, Fang Wang, and Ya-Lan Zhang. On Krylov subspace methods for skew-symmetric and shifted skew-symmetric linear systems. *Advances in Computational Mathematics*, 50(4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10178-9`.

Dominguez:2013:ICA

[DG13] V. Domínguez and M. Ganesh. Interpolation and cubature approximations and analysis for a class of wide-band integrals on the sphere. *Advances in Computational Mathematics*, 39(3–4):547–584, October 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL `http://link.springer.com/article/10.1007/s10444-012-9293-9`.

Dominguez:2016:SEC

[DG16] V. Domínguez and M. Ganesh. Sobolev estimates for constructive uniform-grid FFT interpolatory approximations of spherical functions. *Advances in Computational Mathematics*, 42(4):843–887, August 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9445-9`.

Dong:2015:ATV

[DGK15] Yiqiu Dong, Torsten Görner, and Stefan Kunis. An algorithm for total variation regularized photoacoustic imaging. *Advances in Computational Mathematics*, 41(2):423–438, April 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9364-1`.

Dehmer:2013:EHA

[DGMES13] Matthias Dehmer, Martin Grabner, Abbe Mowshowitz, and Frank Emmert-Streib. An efficient heuristic approach to detecting graph isomorphism based on combinations of highly discriminating invariants. *Advances in Computational Mathematics*, 39(2):311–325, August 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9281-0`.

Dominguez:2016:PMF

[DGMM16] Sebastián Domínguez, Gabriel N. Gatica, Antonio Márquez, and Salim Meddahi. A primal-mixed formulation for the strong coupling of quasi-Newtonian fluids with porous media. *Advances in Computational Mathematics*, 42(3):675–720, June 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9439-7`.

Dunster:2018:UAE

[DGS18] T. M. Dunster, A. Gil, and J. Segura. Uniform asymptotic expansions for Laguerre polynomials and related confluent hypergeometric functions. *Advances in Computational Mathematics*, 44(5):1441–1474, October 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9589-5`.

daCunha:1994:PIR

[dH94] Rudnei Dias da Cunha and Tim Hopkins. A parallel implementation of the restarted GMRES iterative

algorithm for nonsymmetric systems of linear equations. *Advances in Computational Mathematics*, 2(3): 261–277, April 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02521112`.

Diaz:2023:IMR

[DHGA23] Alejandro N. Diaz, Matthias Heinkenschloss, Ion Victor Gosea, and Athanasios C. Antoulas. Interpolatory model reduction of quadratic-bilinear dynamical systems with quadratic-bilinear outputs. *Advances in Computational Mathematics*, 49(6): ??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10096-2`.

Doan:2025:NLE

[DHH25] Cao-Kha Doan, Phuoc-Toan Huynh, and Thi-Thao-Phuong Hoang. Noniterative localized exponential time differencing methods for hyperbolic conservation laws. *Advances in Computational Mathematics*, 51 (3):??, June 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10240-0`.

Dallas:1998:ONS

[DHK98] Allan G. Dallas, G. C. Hsiao, and R. E. Kleinman. Observations on the numerical stability of the Galerkin method. *Advances in Computational Mathematics*, 9(1–2): 37–67, September 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018941607627`. Numerical treatment of boundary integral equations.

Deano:2016:CIA

[DHO16] Alfredo Deaño, Daan Huybrechs, and Peter Opsomer. Construction and implementation of asymptotic expansions for Jacobi-type orthogonal polynomials. *Advances in Computational Mathematics*, 42(4):791–822, August 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9442-z`.

Diamantopoulos:2019:SMP

[DHSW19] Georgios Diamantopoulos, Andreas Hössinger, Siegfried Selberherr, and Josef Weinbub. A shared memory parallel multi-mesh fast marching method for re-distancing. *Advances in Computational Mathematics*, 45(4):2029–2045, August 2019. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09683-z.

Dahlke:2024:AQT

[DHV24] Stephan Dahlke, Marc Hovemann, and Dorian Vogel. Adaptive quarklet tree approximation. *Advances in Computational Mathematics*, 50(6):??, December 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10205-9.

Dong:2018:LPF

[DHWZ18] Xiaojing Dong, Yinnian He, Hongbo Wei, and Yuhong Zhang. Local and parallel finite element algorithm based on the partition of unity method for the incompressible MHD flow. *Advances in Computational Mathematics*, 44(4): 1295–1319, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-017-9582-4.

Dai:2025:SEO

[DJZ25] Yongcheng Dai, Bangti Jin, and Zhi Zhou. Solving elliptic optimal control problems via neural networks and optimality system. *Advances in Computational Mathematics*, 51(4):??, August 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10241-z.

Drouiche:1999:DMW

[DKB99] Karim Drouiche, Djalil Kateb, and Daniel Boichu. Daubechies–Matzinger wavelets and Lorentz polynomials. *Advances in Computational Mathematics*, 10(3–4):239–260, May 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018934800784.

Djoko:2022:SEU

[DKK22] Jules K. Djoko, Jonas Koko, and Sognia Konlack. Stokes equations under Tresca friction boundary condition: a truncated approach. *Advances in Computational Mathematics*, 48 (3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09933-7.

DeVore:1993:WCN

[DKLT93] R. A. DeVore, G. Kyriazis, D. Leviatan, and V. M. Tikhomirov. Wavelet compression and nonlinear n-widths. *Advances in Computational Mathematics*, 1(2):

197–214, June 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02071385`.

Donatelli:2020:MPA

[DKMT20] Marco Donatelli, Rolf Krause, Mariarosa Mazza, and Ken Trotti. Multigrid preconditioners for anisotropic space-fractional diffusion equations. *Advances in Computational Mathematics*, 46 (3):??, June 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09790-2`.

Dagnino:1998:NID

[DL98] C. Dagnino and P. Lamberti. Numerical integration of 2-D integrals based on local bivariate C^1 quasi-interpolating splines. *Advances in Computational Mathematics*, 8(1–2):19–31, January 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018927809928`.

Dekel:2004:MEK

[DL04] S. Dekel and D. Leviatan. On measuring the efficiency of kernel operators in $L_p(\mathbf{R}^d)$. *Advances in Computational Mathematics*, 20(1–3):53–65, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1025838129042`. Approximation and applications.

Duan:2023:MVE

[DL23] Huoyuan Duan and Ziliang Li. A mixed virtual element method for nearly incompressible linear elasticity equations. *Advances in Computational Mathematics*, 49 (1):??, February 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10013-7`.

deLeon:2007:DVI

[dLdDSM07] Manuel de León, David Martín de Diego, and Aitor Santamaría-Merino. Discrete variational integrators and optimal control theory. *Advances in Computational Mathematics*, 26(1–3):251–268, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-4093-5`.

Dong:2012:FAI

[DLK12] Fangfang Dong, Chunxiao Liu, and De-Xing Kong. A fast algorithm for image segmentation based on fuzzy region competition. *Advances in Computational*

Mathematics, 37(4):521–542, November 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9221-4`.

Franco-de-Leon:2019:BIM

[dLL19] Mariano Franco de Leon and John Lowengrub. Boundary integral methods for dispersive equations, Airy flow and the modified Korteweg de Vries equation. *Advances in Computational Mathematics*, 45(1):99–135, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9607-7`.

Ding:2026:VTS

[DLM26] Qianqian Ding, Yifan Luo, and Shipeng Mao. A variable time-step IMEX BDF2 scheme for the incompressible MHD system. *Advances in Computational Mathematics*, 52(3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10311-w`.

Diele:1998:CTN

[DLP98] F. Diele, L. Lopez, and R. Peluso. The Cayley transform in the numerical solution of unitary differential systems. *Advances in Computational Mathematics*, 8(4):317–334, June 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018908700358`.

Dominguez:2014:NMT

[DLS14] Víctor Domínguez, Sijiang L. Lu, and Francisco-Javier Sayas. A Nyström method for the two dimensional Helmholtz hypersingular equation. *Advances in Computational Mathematics*, 40(5–6):1121–1157, December 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9344-5`.

Donat:2019:NSS

[DLU19] Rosa Donat and Sergio López-Ureña. Nonlinear stationary subdivision schemes reproducing hyperbolic and trigonometric functions. *Advances in Computational Mathematics*, 45(5–6):3137–3172, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09731-8`.

Donat:2017:FNO

[DLUS17] Rosa Donat, Sergio López-Ureña, and Maria Santágueda. A family of non-oscillatory

6-point interpolatory subdivision schemes. *Advances in Computational Mathematics*, 43(4):849–883, August 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9509-5`.

Du:2016:PEA

[DLZ16] Shaohong Du, Runchang Lin, and Zhimin Zhang. *A posteriori* error analysis of multipoint flux mixed finite element methods for interface problems. *Advances in Computational Mathematics*, 42(4):921–945, August 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9447-7`.

Dahmen:1993:CRE

[DM93] Wolfgang Dahmen and Charles A. Micchelli. Continuous refinement equations and subdivision. *Advances in Computational Mathematics*, 1(1): 1–37, February 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02070819`.

Dubuc:1999:DHI

[DM99] Serge Dubuc and Jean-Louis Merrien. Dyadic Hermite interpolation on a rectangular mesh. *Advances in Computational Mathematics*, 10(3–4):343–365, May 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018943002601`.

Dorfler:2015:NGF

[DM15] Monika Dörfler and Ewa Matusiak. Nonstationary Gabor frames — approximately dual frames and reconstruction errors. *Advances in Computational Mathematics*, 41(2): 293–316, April 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9358-z`.

DalSanto:2019:HRO

[DM19a] Niccolò Dal Santo and Andrea Manzoni. Hyper-reduced order models for parametrized unsteady Navier–Stokes equations on domains with variable shape. *Advances in Computational Mathematics*, 45(5–6):2463–2501, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09722-9`.

Dimov:2019:NUS

[DM19b] I. T. Dimov and S. Maire. A new unbiased stochastic algorithm for solving linear Fredholm equations of the second

kind. *Advances in Computational Mathematics*, 45(3): 1499–1519, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09676-y`.

DeRyck:2022:EAP

[DM22] Tim De Ryck and Siddhartha Mishra. Error analysis for physics-informed neural networks (PINNs) approximating Kolmogorov PDEs. *Advances in Computational Mathematics*, 48(6):??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09985-9`.

Dong:2023:SBC

[DM23] Yijun Dong and Per-Gunnar Martinsson. Simpler is better: a comparative study of randomized pivoting algorithms for CUR and interpolative decompositions. *Advances in Computational Mathematics*, 49(4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10061-z`.

Demkowicz:2024:SAE

[DMBH24] Leszek Demkowicz, Jens M. Melenk, Jacob Badger, and Stefan Henneking. Stability analysis for electromagnetic waveguides. Part 2: non-homogeneous waveguides. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10130-x`.

DeSterck:2011:TLA

[DMMS11] H. De Sterck, K. Miller, T. Manteuffel, and G. Sanders. Top-level acceleration of adaptive algebraic multilevel methods for steady-state solution to Markov chains. *Advances in Computational Mathematics*, 35(2–4):375–403, November 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9168-x`.

DellAccio:2025:IRA

[DMN25] Francesco Dell'Accio, Francisco Marcellán, and Federico Nudo. An interpolation-regression approach for function approximation on the disk and its application to cubature formulas. *Advances in Computational Mathematics*, 51(6):??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.`

springer.com/article/10.1007/s10444-025-10267-3.

Ding:2022:EEH

[DMS22] Qianqian Ding, Shipeng Mao, and Jiaao Sun. Error estimates of $H(\mathrm{div})$-conforming method for nonstationary magnetohydrodynamic system. *Advances in Computational Mathematics*, 48 (5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09964-0.

Dahlke:2003:RWR

[DMT03] Stephan Dahlke, Peter Maass, and Gerd Teschke. Reconstruction of wideband reflectivity densities by wavelet transforms. *Advances in Computational Mathematics*, 18(2–4):189–209, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1021303718373. Frames.

Droniou:2021:HDM

[DNS21] Jérome Droniou, Neela Nataraj, and Devika Shylaja. Hessian discretisation method for fourth-order semi-linear elliptic equations: applications to the von Kármán and Navier–Stokes models. *Advances in Computational Mathematics*, 47(2):??, April 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09837-4.

Dong:2019:EEC

[Don19] Zhaonan Dong. On the exponent of exponential convergence of p-version FEM spaces. *Advances in Computational Mathematics*, 45(2): 757–785, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9637-1.

Dong:2020:RSO

[Don20] Jian Dong. A robust second-order surface reconstruction for shallow water flows with a discontinuous topography and a Manning friction. *Advances in Computational Mathematics*, 46 (2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09783-1.

Douglas:1994:SRC

[Dou94] Craig C. Douglas. Some remarks on completely vectorizing point Gauss–Seidel while using the natural ordering. *Advances in Computational Mathematics*, 2(2): 215–222, March 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.

springer.com/article/10.1007/BF02521108.

Dikshit:1994:WTR

[DOZ94] H. P. Dikshit, A. Ojha, and R. A. Zalik. Wachspress type rational complex planar splines of degree $(3, 1)$. *Advances in Computational Mathematics*, 2(2): 235–249, March 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02521110.

Delgado:2006:GBB

[DP06] Jorge Delgado and Juan Manuel Peña. On the generalized Ball bases. *Advances in Computational Mathematics*, 24(1–4): 263–280, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-7636-x.

Delgado:2013:ERT

[DP13] Jorge Delgado and Juan Manuel Peña. On the evaluation of rational triangular Bézier surfaces and the optimal stability of the basis. *Advances in Computational Mathematics*, 38(4): 701–721, May 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9256-6.

Dahmen:1993:WAM

[DPS93] W. Dahmen, S. Prössdorf, and R. Schneider. Wavelet approximation methods for pseudodifferential equations. II. Matrix compression and fast solution. *Advances in Computational Mathematics*, 1(3):259–335, October 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02072014.

Duan:2020:BPB

[DQS20] Xianglong Duan, Chaoyu Quan, and Benjamin Stamm. A boundary-partition-based Voronoi diagram of d-dimensional balls: definition, properties, and applications. *Advances in Computational Mathematics*, 46(3):??, June 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09765-3.

Dominguez:2008:DDM

[DRS08] V. Domínguez, M.-L. Rapún, and F.-J. Sayas. Dirac delta methods for Helmholtz transmission problems. *Advances in Computational Mathematics*, 28(2):119–139, February 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.

springer.com/article/10.1007/s10444-006-9015-2.

Dassi:2026:PEE

[DRV26] Franco Dassi, Andrés E. Rubiano, and Iván Velásquez. A posteriori error estimates for a C^1 virtual element method applied to the thin plate vibration problem. *Advances in Computational Mathematics*, 52(2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-026-10288-6.

Davydov:2000:LLI

[DS00] Oleg Davydov and Larry L. Schumaker. Locally linearly independent bases for bivariate polynomial spline spaces. *Advances in Computational Mathematics*, 13(4):355–373, December 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1016626526861.

Dominguez:2001:FAS

[DS01] Víctor Domínguez and Francisco-Javier Sayas. Full asymptotics of spline Petrov–Galerkin methods for some periodic pseudodifferential equations. *Advances in Computational Mathematics*, 14(1):75–101, January 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1016620816451.

DeMarchi:2010:SKB

[DS10] Stefano De Marchi and Robert Schaback. Stability of kernel-based interpolation. *Advances in Computational Mathematics*, 32(2):155–161, February 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9093-4; http://link.springer.com/content/pdf/10.1007/s10444-008-9093-4.pdf.

Dyn:2013:DTP

[DS13] Nira Dyn and Maria Skopina. Decompositions of trigonometric polynomials with applications to multivariate subdivision schemes. *Advances in Computational Mathematics*, 38(2):321–349, February 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9239-7.

Djoko:2024:DGS

[DS24] J. K. Djoko and T. Sayah. Discontinuous Galerkin schemes for Stokes flow with Tresca boundary condition: iterative *a posteriori* error analysis. *Advances in Computational Mathematics*, 50(6):

??, December 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10207-7`.

Didas:2009:CDG

[DSS09] Stephan Didas, Simon Setzer, and Gabriele Steidl. Combined l_2 data and gradient fitting in conjunction with l_1 regularization. *Advances in Computational Mathematics*, 30(1):79–99, January 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9061-4`.

Dahlke:2004:CSB

[DST04] Stephan Dahlke, Gabriele Steidl, and Gerd Teschke. Coorbit spaces and Banach frames on homogeneous spaces with applications to the sphere. *Advances in Computational Mathematics*, 21(1–2):147–180, July 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/B:ACOM.0000016435.42220.fa`.

DeMarchi:2005:NOD

[DSW05] Stefano De Marchi, Robert Schaback, and Holger Wendland. Near-optimal data-independent point locations for radial basis function interpolation. *Advances in Computational Mathematics*, 23(3):317–330, October 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1829-1`.

Dong:2020:ADP

[DSW20] Qiannan Dong, Shuai Su, and Jiming Wu. Analysis of the decoupled and positivity-preserving DDFV schemes for diffusion problems on polygonal meshes. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09748-4`.

DeVore:1996:SRG

[DT96] R. A. DeVore and V. N. Temlyakov. Some remarks on greedy algorithms. *Advances in Computational Mathematics*, 5(1):173–187, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124742`.

Duan:2012:DDM

[DT12] Yuping Duan and Xue-Cheng Tai. Domain decomposition methods with

graph cuts algorithms for total variation minimization. *Advances in Computational Mathematics*, 36(2):175–199, February 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9213-4`.

Duan:2024:PRA

[DTZ24] Huoyuan Duan, Roger C. E. Tan, and Duowei Zhu. A pressure-residual augmented GLS stabilized method for a type of Stokes equations with nonstandard boundary conditions. *Advances in Computational Mathematics*, 50 (5):??, October 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10204-w`.

Dung:2009:NLS

[Dũn09] Dinh Dũng. Non-linear sampling recovery based on quasi-interpolant wavelet representations. *Advances in Computational Mathematics*, 30 (4):375–401, May 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9074-7`.

Dung:2011:OAS

[Dũn11] Dinh Dũng. Optimal adaptive sampling recovery. *Advances in Computational Mathematics*, 34(1): 1–41, January 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9140-9`. See erratum [Dũn12].

Dung:2012:EOA

[Dũn12] Dinh Dũng. Erratum to: Optimal adaptive sampling recovery [MR2783300]. *Advances in Computational Mathematics*, 36(4):605–606, May 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9198-z; http://link.springer.com/content/pdf/10.1007/s10444-011-9198-z.pdf`. See [Dũn11].

deVilliers:2019:SMW

[dVR19] Johan de Villiers and Dinna Ranirina. Shortest multiwavelet matrix filters for refinable vector splines. *Advances in Computational Mathematics*, 45(5–6):3327–3365, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09740-7`.

Dubickas:2010:RES

[DX10] Artūras Dubickas and Zhiqiang Xu. Refinement equations and spline functions. *Ad-*

vances in Computational Mathematics, 32(1):1–23, January 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9079-2`.

Dai:2020:LDS

[DX20] Xinjie Dai and Aiguo Xiao. Lévy-driven stochastic Volterra integral equations with doubly singular kernels: existence, uniqueness, and a fast EM method. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09780-4`.

Du:2001:GRT

[DY01] Liu Du and Ningning Yan. Gradient recovery type a posteriori error estimate for finite element approximation on non-uniform meshes. *Advances in Computational Mathematics*, 14(2):175–193, February 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016676917360`.

Didenko:2010:SRM

[DY10] Victor Didenko and Wee Ping Yeo. The spectral radius of matrix continuous refinement operators. *Advances in Computational Mathematics*, 33 (1):113–127, July 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9124-9`.

Davydov:2004:SDF

[DZ04] Oleg Davydov and Frank Zeilfelder. Scattered data fitting by direct extension of local polynomials to bivariate splines. *Advances in Computational Mathematics*, 21(3–4):223–271, October 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/B:ACOM.0000032041.68678.fa`.

Eimer:2022:IFV

[EBS22] Matthias Eimer, Raul Borsche, and Norbert Siedow. Implicit finite volume method with a posteriori limiting for transport networks. *Advances in Computational Mathematics*, 48(3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09939-1`.

Esmaeilbeigi:2018:SDF

[ECS18] M. Esmaeilbeigi, O. Chatrabgoun, and M. Shafa. Scattered data fitting of Hermite type by a weighted meshless

method. *Advances in Computational Mathematics*, 44 (3):673–691, June 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9555-7`.

Elasmi:2021:NSI

[EEK21] Mehdi Elasmi, Christoph Erath, and Stefan Kurz. Non-symmetric isogeometric FEM–BEM couplings. *Advances in Computational Mathematics*, 47(5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09886-3`.

Ephremidze:2013:ADW

[EGL13] L. Ephremidze, A. Gamkrelidze, and E. Lagvilava. An approximation of Daubechies wavelet matrices by perfect reconstruction filter banks with rational coefficients. *Advances in Computational Mathematics*, 38(1):147–158, January 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9232-1`.

Escribano:2013:HMR

[EGST13] Carmen Escribano, Antonio Giraldo, M. Asunción Sastre, and Emilio Torrano. The Hessenberg matrix and the Riemann mapping function. *Advances in Computational Mathematics*, 39(3–4):525–545, October 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9291-y`.

Ehring:2024:HKS

[EH24] Tobias Ehring and Bernard Haasdonk. Hermite kernel surrogates for the value function of high-dimensional nonlinear optimal control problems. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10128-5`.

Ehrich:2000:EWC

[Ehr00] Sven Ehrich. On the estimation of wavelet coefficients. *Advances in Computational Mathematics*, 13 (2):105–129, May 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018998009387`.

Elschner:2002:FES

[EHS02] Johannes Elschner, Rainer Hinder, and Gunther Schmidt. Finite element solution of conical diffraction problems. *Advances in Computational*

Mathematics, 16(2–3):139–156, April 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014456026778`. Modeling and computation in optics and electromagnetics.

Ezquerro:2017:SIC

[EHV17] J. A. Ezquerro and M. A. Hernández-Verón. A study of the influence of center conditions on the domain of parameters of Newton's method by using recurrence relations. *Advances in Computational Mathematics*, 43(5):1103–1129, October 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9518-z`.

Enenkel:1997:DDI

[EJ97] Robert F. Enenkel and Kenneth R. Jackson. DIMSEMs-diagonally implicit single-eigenvalue methods for the numerical solution of stiff ODEs on parallel computers. *Advances in Computational Mathematics*, 7(1–2):97–133, March 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018986500842`. Parallel methods for ODEs.

Eggl:2026:SGV

[EMU26] Jakob Eggl, Elias Mindlberger, and Mario Ullrich. Sparse grids vs. random points for high-dimensional polynomial approximation. *Advances in Computational Mathematics*, 52(3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10316-5`.

Eidnes:2018:AEP

[EOR18] Sølve Eidnes, Brynjulf Owren, and Torbjørn Ringholm. Adaptive energy preserving methods for partial differential equations. *Advances in Computational Mathematics*, 44(3):815–839, June 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9562-8`.

Evgeniou:2000:RNS

[EPP00] Theodoros Evgeniou, Massimiliano Pontil, and Tomaso Poggio. Regularization networks and support vector machines. *Advances in Computational Mathematics*, 13(1):1–50, April 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018946025316`.

Engelborghs:1999:NCS

[ER99] Koen Engelborghs and Dirk Roose. Numerical computation of stability and detection of Hopf bifurcations of steady state solutions of delay differential equations. *Advances in Computational Mathematics*, 10(3–4):271–289, May 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018986817622`.

Eshghi:2021:EEM

[ER21] Nasim Eshghi and Lothar Reichel. Estimating the error in matrix function approximations. *Advances in Computational Mathematics*, 47 (4):??, August 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09882-7`.

Eskew:2023:NAP

[ES23] Sarah Locke Eskew and John R. Singler. A new approach to proper orthogonal decomposition with difference quotients. *Advances in Computational Mathematics*, 49(2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10011-9`.

Elgindy:2013:OGO

[ESM13] Kareem T. Elgindy and Kate A. Smith-Miles. On the optimization of Gegenbauer operational matrix of integration. *Advances in Computational Mathematics*, 39(3–4): 511–524, October 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9289-5`.

Eigel:2019:VMC

[ESTW19] Martin Eigel, Reinhold Schneider, Philipp Trunschke, and Sebastian Wolf. Variational Monte Carlo-bridging concepts of machine learning and high-dimensional partial differential equations. *Advances in Computational Mathematics*, 45(5–6):2503–2532, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09723-8`.

Epshteyn:2020:DPM

[EX20] Yekaterina Epshteyn and Qing Xia. Difference potentials method for models with dynamic boundary conditions and bulk-surface problems. *Advances in Computational Mathematics*, 46 (5):??, October 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.`

springer.com/article/10.1007/s10444-020-09798-8.

Falcon:2019:CAG

[FÁG19] Raúl M. Falcón, Víctor Álvarez, and Félix Gudiel. A computational algebraic geometry approach to analyze pseudo-random sequences based on Latin squares. *Advances in Computational Mathematics*, 45(4): 1769–1792, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9654-0.

Farouki:2002:HIR

[FaKS02] Rida T. Farouki, Mohammad al Kandari, and Takis Sakkalis. Hermite interpolation by rotation-invariant spatial Pythagorean-hodograph curves. *Advances in Computational Mathematics*, 17 (4):369–383, November 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1016280811626.

Fryklund:2022:AKS

[FaKT22] Fredrik Fryklund, Ludvig af Klinteberg, and Anna-Karin Tornberg. An adaptive kernel-split quadrature method for parameter-dependent layer potentials. *Advances in Computational Mathematics*, 48(2):??, April 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09927-5.

Farouki:2010:QHM

[Far10] Rida T. Farouki. Quaternion and Hopf map characterizations for the existence of rational rotation-minimizing frames on quintic space curves. *Advances in Computational Mathematics*, 33(3): 331–348, October 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-009-9138-3; http://link.springer.com/content/pdf/10.1007/s10444-009-9138-3.pdf.

Fasshauer:1999:HIR

[Fas99a] Gregory E. Fasshauer. Hermite interpolation with radial basis functions on spheres. *Advances in Computational Mathematics*, 10(1):81–96, January 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018914229009.

Fasshauer:1999:SDE

[Fas99b] Gregory E. Fasshauer. Solving differential equations with radial basis functions: multilevel methods and smoothing. *Advances in Computational*

Mathematics, 11(2–3):139–159, November 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018919824891`. Radial basis functions and their applications.

Floater:2013:SCM

[FBCR13] M. Floater, C. Beccari, T. Cashman, and L. Romani. A smoothness criterion for monotonicity-preserving subdivision. *Advances in Computational Mathematics*, 39 (1):193–204, July 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9275-y`.

Fan:2019:NCR

[FBDH19] Ya-Ru Fan, Alessandro Buccini, Marco Donatelli, and Ting-Zhu Huang. A nonconvex regularization approach for compressive sensing. *Advances in Computational Mathematics*, 45(2): 563–588, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9627-3`.

Farashahi:2025:ASF

[FC25] Arash Ghaani Farashahi and Gregory S. Chirikjian. Asymptotically steerable finite Fourier–Bessel transforms and closure under convolution. *Advances in Computational Mathematics*, 51 (6):??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10268-2`.

Fischer:2015:APM

[FE15] Michael Fischer and Peter Eberhard. Application of parametric model reduction with matrix interpolation for simulation of moving loads in elastic multibody systems. *Advances in Computational Mathematics*, 41(5):1049–1072, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9379-7`.

Farhloul:1995:MFE

[FF95] Mohamed Farhloul and Michel Fortin. A mixed finite element for the Stokes problem using quadrilateral elements. *Advances in Computational Mathematics*, 3(1–2): 101–113, January 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02431998`.

Fornberg:2005:ARB

[FF05] Bengt Fornberg and Natasha Flyer. Accuracy of ra-

dial basis function interpolation and derivative approximations on 1-D infinite grids. *Advances in Computational Mathematics*, 23 (1–2):5–20, July 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1812-x`.

Fuhrer:2026:MFE

[FF26] Thomas Führer and Francisco Fuica. Mixed finite element methods for elliptic obstacle problems. *Advances in Computational Mathematics*, 52(3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10319-2`.

Franco:2024:LDD

[FFMZ24] Nicola Rares Franco, Daniel Fraulin, Andrea Manzoni, and Paolo Zunino. On the latent dimension of deep autoencoders for reduced order modeling of PDEs parametrized by random fields. *Advances in Computational Mathematics*, 50 (5):??, October 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10189-6`.

Farouki:2017:CCS

[FGG+17] Rida T. Farouki, Graziano Gentili, Carlotta Giannelli, Alessandra Sestini, and Caterina Stoppato. A comprehensive characterization of the set of polynomial curves with rational rotation-minimizing frames. *Advances in Computational Mathematics*, 43(1): 1–24, February 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9473-0`.

Farouki:2019:MPU

[FGMS19] Rida T. Farouki, Graziano Gentili, Hwan Pyo Moon, and Caterina Stoppato. Minkowski products of unit quaternion sets. *Advances in Computational Mathematics*, 45(3): 1607–1629, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09687-9`.

Feichtinger:2014:ADG

[FGO14] Hans G. Feichtinger, Anna Grybos, and Darian M. Onchis. Approximate dual Gabor atoms via the adjoint lattice method. *Advances in Computational Mathematics*, 40(3):651–665, June 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9324-1`.

Farouki:2013:ISD

[FGS13] Rida T. Farouki, Carlotta Giannelli, and Alessandra Sestini. An interpolation scheme for designing rational rotation-minimizing camera motions. *Advances in Computational Mathematics*, 38 (1):63–82, January 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9226-z`.

Farouki:2016:LMP

[FGS16] Rida T. Farouki, Carlotta Giannelli, and Alessandra Sestini. Local modification of Pythagorean-hodograph quintic spline curves using the B-spline form. *Advances in Computational Mathematics*, 42(1):199–225, February 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9419-y`.

Farouki:2005:SEE

[FH05] Rida T. Farouki and Chang Yong Han. Solution of elementary equations in the Minkowski geometric algebra of complex sets. *Advances in Computational Mathematics*, 22(4): 301–323, May 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-003-2605-3`.

Fuhrer:2018:WPM

[FH18] Thomas Führer and Norbert Heuer. A wirebasket preconditioner for the mortar boundary element method. *Advances in Computational Mathematics*, 44(1): 23–49, February 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9534-z`.

Floater:2020:CSM

[FH20] Michael S. Floater and Kaibo Hu. A characterization of supersmoothness of multivariate splines. *Advances in Computational Mathematics*, 46(5):??, October 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09813-y`.

Floater:2006:GCB

[FHK06] Michael S. Floater, Kai Hormann, and Géza Kós. A general construction of barycentric coordinates over convex polygons. *Advances in Computational Mathematics*, 24(1–4):311–331, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7611-6`.

Franke:1994:LSS

[FHN94] Richard Franke, Hans Hagen, and Gregory M. Nielson. Least squares surface approximation to scattered data using multiquadratic functions. *Advances in Computational Mathematics*, 2(1): 81–99, January 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02519037`.

Fink:2019:HOA

[Fin19] Thomas Fink. Higher order analysis of the geometry of singularities using the Taylorlet transform. *Advances in Computational Mathematics*, 45(2): 675–705, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9635-3`.

Fasshauer:1999:MAA

[FJ99] Gregory E. Fasshauer and Joseph W. Jerome. Multistep approximation algorithms: improved convergence rates through postconditioning with smoothing kernels. *Advances in Computational Mathematics*, 10(1): 1–27, January 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018962112170`.

Fairweather:1998:MFS

[FK98] Graeme Fairweather and Andreas Karageorghis. The method of fundamental solutions for elliptic boundary value problems. *Advances in Computational Mathematics*, 9(1–2):69–95, September 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018981221740`. Numerical treatment of boundary integral equations.

Floater:2010:IWM

[FK10] Michael S. Floater and Jiří Kosinka. On the injectivity of Wachspress and mean value mappings between convex polygons. *Advances in Computational Mathematics*, 32(2):163–174, February 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9098-z`.

Fraschini:2026:SQF

[FKP26] Sara Fraschini, Vladimir Kazeev, and Ilaria Perugia. Symplectic QTT-FEM solution of the one-dimensional acoustic wave equation in the time domain. *Advances in Computational Mathematics*,

52(4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10332-5`.

Fairweather:2005:MDM

[FKS05] Graeme Fairweather, Andreas Karageorghis, and Yiorgos-Sokratis Smyrlis. A matrix decomposition MFS algorithm for axisymmetric biharmonic problems. *Advances in Computational Mathematics*, 23(1–2):55–71, July 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1808-6`.

Fort:2019:FVM

[FKT+19] J. Fořt, J. Karel, D. Trdlička, F. Benkhaldoun, I. Kissami, J.-B. Montavon, K. Hassouni, and J. Zs. Mezei. Finite volume methods for numerical simulation of the discharge motion described by different physical models. *Advances in Computational Mathematics*, 45(4):2163–2189, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09706-9`.

Fryklund:2020:IEB

[FKT20] Fredrik Fryklund, Mary Catherine A. Kropinski, and Anna-Karin Tornberg. An integral equation-based numerical method for the forced heat equation on complex domains. *Advances in Computational Mathematics*, 46(5):??, October 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09804-z`.

Floater:2000:ACD

[FL00] Michael S. Floater and Tom Lyche. Asymptotic convergence of degree-raising. *Advances in Computational Mathematics*, 12(2–3):175–187, February 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018913118047`.

Fu:2023:DSD

[FL23] Jun-Liang Fu and Jijun Liu. On the determination of the spatial-dependent potential coefficient in a linear pseudoparabolic equation. *Advances in Computational Mathematics*, 49(2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10023-5`.

Fu:2024:RIS

[FL24] Jun-Liang Fu and Jijun Liu. On the recovery of initial

status for linearized shallow-water wave equation by data assimilation with error analysis. *Advances in Computational Mathematics*, 50(6): ??, December 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10210-y`.

Flinth:2018:SBD

[Fli18] Axel Flinth. Sparse blind deconvolution and demixing through $\ell_1, 2$-minimization. *Advances in Computational Mathematics*, 44(1):1–21, February 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9533-0`.

Lin:2005:EHT

[fLL05] Jia fu Lin and Qun Lin. Extrapolation of the Hood–Taylor elements for the Stokes problem. *Advances in Computational Mathematics*, 22(2):115–123, February 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1089-0`.

Li:2021:NMP

[fLLfDX21] Jiao fen Li, Wen Li, Xue feng Duan, and Mingqing Xiao. Newton's method for the parameterized generalized eigenvalue problem with nonsquare matrix pencils. *Advances in Computational Mathematics*, 47 (2):??, April 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09855-w`.

Fairweather:1996:GMS

[FLM96] G. Fairweather and J. C. López-Marcos. Galerkin methods for a semilinear parabolic problem with nonlocal boundary conditions. *Advances in Computational Mathematics*, 6(1):243–262, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127706`. John Crank 80th birthday special issue.

Floater:1994:WCC

[Flo94] Michael S. Floater. A weak condition for the convexity of tensor-product Bézier and B-spline surfaces. *Advances in Computational Mathematics*, 2(1): 67–80, January 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02519036`.

Floater:1996:ACA

[Flo96a] Michael S. Floater. An analysis of cubic approximation schemes for conic sections. *Advances in Computational Mathematics*, 5(1):361–379, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124751`.

Floater:1996:ZCB

[Flo96b] Michael S. Floater. On zero curves of bivariate polynomials. *Advances in Computational Mathematics*, 5(1):399–415, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124753`.

Freeden:2004:OZT

[FM04] W. Freeden and V. Michel. Orthogonal zonal, tesseral and sectorial wavelets on the sphere for the analysis of satellite data. *Advances in Computational Mathematics*, 21(1–2):181–217, July 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/B:ACOM.0000016429.07498.77`.

Fornberg:2014:SHB

[FM14] Bengt Fornberg and Jordan M. Martel. On spherical harmonics based numerical quadrature over the surface of a sphere. *Advances in Computational Mathematics*, 40(5–6):1169–1184, December 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9346-3`.

Farouki:2018:RFM

[FM18] Rida T. Farouki and Hwan Pyo Moon. Rational frames of minimal twist along space curves under specified boundary conditions. *Advances in Computational Mathematics*, 44(5):1627–1650, October 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9599-3`.

Farazandeh:2021:RRI

[FM21] Elham Farazandeh and Davoud Mirzaei. A rational RBF interpolation with conditionally positive definite kernels. *Advances in Computational Mathematics*, 47 (5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09900-8`.

Floater:2025:IMV

[FM25] Michael S. Floater and Georg Muntingh. On the injectivity of mean value mappings between quadrilaterals. *Advances in Computational Mathematics*, 51 (4):??, August 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10246-8`.

Franco:2026:DOD

[FMH26] Nicola Rares Franco, Andrea Manzoni, and Jan S. Hesthaven. Deep orthogonal decomposition: a continuously adaptive neural network approach to model order reduction of parametrized partial differential equations. *Advances in Computational Mathematics*, 52 (3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10295-7`.

Faustmann:2022:MHM

[FMP22] Markus Faustmann, Jens Markus Melenk, and Maryam Parvizi. $\mathcal{H}$-matrix approximability of inverses of FEM matrices for the time-harmonic Maxwell equations. *Advances in Computational Mathematics*, 48 (5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09965-z`.

Fickus:2013:CAS

[FMPS13] Matthew Fickus, Dustin G. Mixon, Miriam J. Poteet, and Nate Strawn. Constructing all self-adjoint matrices with prescribed spectrum and diagonal. *Advances in Computational Mathematics*, 39(3–4):585–609, October 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9298-z`.

Farouki:2000:AMP

[FMR00] Rida T. Farouki, Hwan Pyo Moon, and Bahram Ravani. Algorithms for Minkowski products and implicitly-defined complex sets. *Advances in Computational Mathematics*, 13(3):199–229, July 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018910412112`.

Foucart:2023:FRP

[Fou23] Simon Foucart. Full recovery from point values: an optimal algorithm for Chebyshev approximability prior. *Advances in Computational Mathematics*, 49 (4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL https://link.springer.com/article/10.1007/s10444-023-10063-x.

Feichtinger:2014:CAD

[FOW14] Hans G. Feichtinger, Darian M. Onchis, and Christoph Wiesmeyr. Construction of approximate dual wavelet frames. *Advances in Computational Mathematics*, 40(1): 273–282, February 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-013-9307-2.

Floater:1998:TPM

[FP98] Michael S. Floater and J. M. Peña. Tensor-product monotonicity preservation. *Advances in Computational Mathematics*, 9(3–4):353–362, November 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018906027191.

Faul:1999:PCI

[FP99] A. C. Faul and M. J. D. Powell. Proof of convergence of an iterative technique for thin plate spline interpolation in two dimensions. *Advances in Computational Mathematics*, 11(2–3):183–192, November 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018923925800. Radial basis functions and their applications.

Feichtinger:2012:ARB

[FPR+12] Hans G. Feichtinger, José C. Príncipe, José Luis Romero, Alexander Singh Alvarado, and Gino Angelo Velasco. Approximate reconstruction of bandlimited functions for the integrate and fire sampler. *Advances in Computational Mathematics*, 36(1): 67–78, January 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9180-9.

Floater:2006:CCM

[FPT06] Michael S. Floater and Valérie Pham-Trong. Convex combination maps over triangulations, tilings, and tetrahedral meshes. *Advances in Computational Mathematics*, 25(4):347–356, November 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-7620-5.

Fu:2010:NPO

[FQ10] Chu-Li Fu and Zhi Qian. Numerical pseudodifferential operator and Fourier regularization. *Advances in Computational Mathematics*, 33 (4):449–470, November 2010.

CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9136-5`.

Fu:2025:LIL

[FQH25] Yayun Fu, Xu Qian, and Dongdong Hu. Linearly implicit and large time-stepping conservative exponential relaxation schemes for the nonlocal cubic Gross–Pitaevskii equation. *Advances in Computational Mathematics*, 51 (3):??, June 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10238-8`.

Fermo:2010:NMF

[FR10] L. Fermo and M. G. Russo. Numerical methods for Fredholm integral equations with singular right-hand sides. *Advances in Computational Mathematics*, 33(3):305–330, October 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9137-4`.

Franssens:1999:NNP

[Fra99] Ghislain Franssens. A new non-polynomial univariate interpolation formula of Hermite type. *Advances in Computational Mathematics*, 10(3–4):367–388, May 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018947103510`.

Fornasier:2009:AJS

[FRT09] Massimo Fornasier, Ronny Ramlau, and Gerd Teschke. The application of joint sparsity and total variation minimization algorithms to a real-life art restoration problem. *Advances in Computational Mathematics*, 31(1–3): 157–184, October 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9103-6`.

Flinth:2025:BBD

[FRW25] Axel Flinth, Ingo Roth, and Gerhard Wunder. Bisparse blind deconvolution through hierarchical sparse recovery. *Advances in Computational Mathematics*, 51(6): ??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10271-7`.

Farouki:1994:PHS

[FS94] Rida T. Farouki and Takis Sakkalis. Pythagorean-hodograph space curves. *Advances in Computational Mathematics*, 2(1):41–66,

January 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02519035`.

Franke:1998:COE

[FS98] Carsten Franke and Robert Schaback. Convergence order estimates of meshless collocation methods using radial basis functions. *Advances in Computational Mathematics*, 8(4):381–399, June 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018916902176`.

Feichtinger:2007:SCI

[FS07] Hans G. Feichtinger and Wenchang Sun. Sufficient conditions for irregular Gabor frames. *Advances in Computational Mathematics*, 26(4):403–430, May 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7210-6`.

Feng:2025:EAH

[FS25] Mengya Feng and Tongjun Sun. Error analysis of a hybrid numerical method for optimal control problem governed by parabolic PDEs in random cylindrical domains. *Advances in Computational Mathematics*, 51 (3):??, June 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10237-9`.

Fuhr:2008:SEV

[Füh08] H. Führ. Simultaneous estimates for vector-valued Gabor frames of Hermite functions. *Advances in Computational Mathematics*, 29 (4):357–373, November 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9053-4`.

Fuhr:2016:VMC

[Füh16] Hartmut Führ. Vanishing moment conditions for wavelet atoms in higher dimensions. *Advances in Computational Mathematics*, 42 (1):127–153, February 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9414-3`.

Furset:2026:SAC

[Fur26] Simen Knutsen Furset. Spectral approximation of a class of stochastic time-fractional evolution equations. *Advances in Computational Mathematics*, 52 (2):??, April 2026. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-026-10291-x.

Fuselier:2008:EIS

[Fus08a] Edward J. Fuselier. Erratum: "Improved stability estimates and a characterization of the native space for matrix-valued RBFs" [*Adv. Comput. Math.* **29** (2008), no. 3, 269–290; MR2438345]. *Advances in Computational Mathematics*, 29(3):311–313, October 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9091-6; http://link.springer.com/content/pdf/10.1007/s10444-008-9091-6.pdf. See [Fus08b].

Fuselier:2008:ISE

[Fus08b] Edward J. Fuselier. Improved stability estimates and a characterization of the native space for matrix-valued RBFs. *Advances in Computational Mathematics*, 29(3):269–290, October 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-007-9046-3. See erratum [Fus08a].

Freeden:1996:SWT

[FW96] Willi Freeden and Ulrich Windheuser. Spherical wavelet transform and its discretization. *Advances in Computational Mathematics*, 5(1):51–94, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02124735.

Fuselier:2015:OPD

[FW15] Edward Fuselier and Grady B. Wright. Order-preserving derivative approximation with periodic radial basis functions. *Advances in Computational Mathematics*, 41(1):23–53, February 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-014-9348-1.

Feng:2025:CGL

[FW25] Bo Feng and Gang Wu. On convergence of the generalized Lanczos trust-region method for trust-region subproblems. *Advances in Computational Mathematics*, 51(1):??, February 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10217-5.

Feng:2006:GFT

[FWW06] De-Jun Feng, Long Wang, and Yang Wang. Generation of finite tight frames

by Householder transformations. *Advances in Computational Mathematics*, 24(1–4): 297–309, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7637-9`.

Ford:1996:DCQ

[FXZ96] William F. Ford, Yuesheng Xu, and Yunhe Zhao. Derivative corrections for quadrature formulas. *Advances in Computational Mathematics*, 6(1):139–157, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127701`.

Fasshauer:2013:RKS

[FY13] Gregory E. Fasshauer and Qi Ye. Reproducing kernels of Sobolev spaces via a green kernel approach with differential operators and boundary operators. *Advances in Computational Mathematics*, 38(4):891–921, May 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9264-6`.

Feng:2008:AFE

[FYL08] Tao Feng, Ningning Yan, and Wenbin Liu. Adaptive finite element methods for the identification of distributed parameters in elliptic equation. *Advances in Computational Mathematics*, 29 (1):27–53, July 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9035-6`.

Feng:2025:QBV

[FYZ25] Xiaoli Feng, Xiaoyu Yuan, and Yun Zhang. A quasi-boundary-value method for solving a nonlinear space-fractional backward diffusion problem. *Advances in Computational Mathematics*, 51 (2):??, April 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10230-2`.

Fang:2012:RIB

[FZ12] Weifu Fang and Suxing Zeng. Recovery of an interface from boundary measurement in an elliptic differential equation. *Advances in Computational Mathematics*, 36(2): 201–220, February 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9204-5`.

Furst:2019:NSU

[FZ19] Jirí Fürst and Zdenek Zák. Numerical simulation of unsteady flows through a radial

turbine. *Advances in Computational Mathematics*, 45(4): 1939–1952, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09670-4`.

Fu:2021:ESS

[FZLZ21] Hongfei Fu, Chen Zhu, Xueting Liang, and Bingyin Zhang. Efficient spatial second-/fourth-order finite difference ADI methods for multi-dimensional variable-order time-fractional diffusion equations. *Advances in Computational Mathematics*, 47(4):??, August 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09881-8`.

Garcia-Archilla:2020:EAF

[GAN20] Bosco García-Archilla and Julia Novo. Error analysis of fully discrete mixed finite element data assimilation schemes for the Navier–Stokes equations. *Advances in Computational Mathematics*, 46(4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09806-x`.

Gataric:2021:HRS

[Gat21] Milana Gataric. High-resolution signal recovery via generalized sampling and functional principal component analysis. *Advances in Computational Mathematics*, 47(6):??, December 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09908-0`.

Goyal:2024:DSH

[GDB24] Pawan Goyal, Igor Pontes Duff, and Peter Benner. Dominant subspaces of high-fidelity polynomial structured parametric dynamical systems and model reduction. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10133-8`.

Gomes:2021:ATT

[GDMS21] Anna Karina Fontes Gomes, Margarete Oliveira Domingues, Odim Mendes, and Kai Schneider. Adaptive two- and three-dimensional multiresolution computations of resistive magnetohydrodynamics. *Advances in Computational Mathematics*, 47 (2):??, April 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.`

springer.com/article/10.1007/s10444-021-09845-y.

Gerot:2019:EFB

[Gér19] Cédric Gérot. Elementary factorisation of Box spline subdivision. *Advances in Computational Mathematics*, 45(1):153–171, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9612-x.

Goh:2006:ITC

[GG06] Say Song Goh and Tim N. T. Goodman. Inequalities on time-concentrated or frequency-concentrated functions. *Advances in Computational Mathematics*, 24(1–4):333–351, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-4145-x.

Gimbutas:2016:FMM

[GG16] Zydrunas Gimbutas and Leslie Greengard. A fast multipole method for the evaluation of elastostatic fields in a half-space with zero normal stress. *Advances in Computational Mathematics*, 42(1):175–198, February 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-015-9416-1.

Galan-Garcia:2019:ECI

[GGAVGG+19] José L. Galán-García, Gabriel Aguilera-Venegas, María Á. Galán-García, Pedro Rodríguez-Cielos, Iván Atencia-McKillop, Yolanda Padilla-Domínguez, and Ricardo Rodríguez-Cielos. Enhancing Cas improper integrals computations using extensions of the residue theorem. *Advances in Computational Mathematics*, 45(4):1825–1841, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-09660-y.

Goh:2007:CPR

[GGL07] Say Song Goh, Tim N. T. Goodman, and S. L. Lee. Causality properties of refinable functions and sequences. *Advances in Computational Mathematics*, 26(1–3):231–250, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-8007-3.

Guillen-Gonzalez:2021:CMS

[GGRBRG21] F. Guillén-González, M. A. Rodríguez-Bellido, and D. A. Rueda-Gómez. A chemorepulsion model with superlinear production: analysis of the continuous problem and two approximately positive and energy-stable

schemes. *Advances in Computational Mathematics*, 47 (6):??, December 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09907-1`.

Gosea:2024:SBF

[GGW24] Ion Victor Gosea, Serkan Gugercin, and Steffen W. R. Werner. Structured barycentric forms for interpolation-based data-driven reduced modeling of second-order systems. *Advances in Computational Mathematics*, 50 (2):??, April 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10118-7`.

Goktas:1999:ACG

[GH99] Ünal Göktaş and Willy Hereman. Algorithmic computation of generalized symmetries of nonlinear evolution and lattice equations. *Advances in Computational Mathematics*, 11 (1):55–80, July 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018955405327`.

Gabardo:2003:FAM

[GH03] Jean-Pierre Gabardo and Deguang Han. Frames associated with measurable spaces. *Advances in Computational Mathematics*, 18(2–4):127–147, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021312429186`. Frames.

Guo:2006:OCV

[GH06] Benqi Guo and Norbert Heuer. The optimal convergence of the h–p version of the boundary element method with quasiuniform meshes for elliptic problems on polygonal domains. *Advances in Computational Mathematics*, 24(1–4):353–374, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7618-z`.

Guglielmi:2008:CBP

[GH08] Nicola Guglielmi and Ernst Hairer. Computing breaking points in implicit delay differential equations. *Advances in Computational Mathematics*, 29(3):229–247, October 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9044-5`.

Grohs:2016:SAL

[GH16] P. Grohs and S. Hosseini. ε-subgradient algorithms for locally Lipschitz

functions on Riemannian manifolds. *Advances in Computational Mathematics*, 42 (2):333–360, April 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9426-z`.

Grassle:2018:PRO

[GH18] Carmen Gräßle and Michael Hinze. POD reduced-order modeling for evolution equations utilizing arbitrary finite element discretizations. *Advances in Computational Mathematics*, 44(6):1941–1978, December 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9620-x`.

Garrigos:2012:DFO

[GHdN12] Gustavo Garrigós, Eugenio Hernández, and Maria de Natividade. Democracy functions and optimal embeddings for approximation spaces. *Advances in Computational Mathematics*, 37(2): 255–283, August 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9197-0`.

Grohs:2023:STE

[GHJZ23] Philipp Grohs, Fabian Hornung, Arnulf Jentzen, and Philipp Zimmermann. Space-time error estimates for deep neural network approximations for differential equations. *Advances in Computational Mathematics*, 49 (1):??, February 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09970-2`.

Garcke:2018:PFA

[GHKL18] Harald Garcke, Michael Hinze, Christian Kahle, and Kei Fong Lam. A phase field approach to shape optimization in Navier–Stokes flow with integral state constraints. *Advances in Computational Mathematics*, 44(5):1345–1383, October 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9586-8`.

Grassle:2019:PMO

[GHLU19] Carmen Gräßle, Michael Hinze, Jens Lang, and Sebastian Ullmann. POD model order reduction with space-adapted snapshots for incompressible flows. *Advances in Computational Mathematics*, 45(5–6):2401–2428, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.`

springer.com/article/10.1007/s10444-019-09716-7.

Ganesh:2025:AFS

[GHV25] Mahadevan Ganesh, Stuart C. Hawkins, and Darko Volkov. An all-frequency stable integral system for Maxwell's equations in 3-D penetrable media: continuous and discrete model analysis. *Advances in Computational Mathematics*, 51(1): ??, February 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10218-4.

Giani:2020:ACD

[Gia20] Stefano Giani. An adaptive composite discontinuous Galerkin method for elliptic problems on complicated domains with discontinuous coefficients. *Advances in Computational Mathematics*, 46 (2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09759-1.

Gross:2021:DAC

[GIKV21] Craig Gross, Mark A. Iwen, Lutz Kämmerer, and Toni Volkmer. A deterministic algorithm for constructing multiple rank-1 lattices of near-optimal size. *Advances in Computational Mathematics*, 47(6):??, December 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09916-0.

Gillman:2017:IET

[Gil17] Adrianna Gillman. An integral equation technique for scattering problems with mixed boundary conditions. *Advances in Computational Mathematics*, 43(2):351–364, April 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9488-6.

Gray:2019:BIA

[GJMY19] L. J. Gray, Jas Jakowski, M. N. J. Moore, and Wenjing Ye. Boundary integral analysis for non-homogeneous, incompressible Stokes flows. *Advances in Computational Mathematics*, 45(3):1729–1734, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09699-5.

Giannelli:2014:SSB

[GJS14] Carlotta Giannelli, Bert Jüttler, and Hendrik Speleers. Strongly stable bases for adaptively refined multilevel spline spaces. *Advances in Computational Mathematics*,

40(2):459–490, April 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9315-2`.

Greif:2022:LRE

[GJU22] Constantin Greif, Philipp Junk, and Karsten Urban. Linear/Ridge expansions: enhancing linear approximations by ridge functions. *Advances in Computational Mathematics*, 48 (3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09936-4`.

Greengard:2020:AEU

[GJW20] Leslie Greengard, Shidong Jiang, and Jun Wang. On the accurate evaluation of unsteady Stokes layer potentials in moving two-dimensional geometries. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09760-8`.

Ghoreishi:2019:PRC

[GK19] F. Ghoreishi and Changiz Goli Keshavarzi. Preconditioning RBF collocation method by adapted finite difference matrix. *Advances in Computational Mathematics*, 45(5–6):3293–3325, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09738-1`.

Giesselmann:2024:PEC

[GK24] Jan Giesselmann and Kiwoong Kwon. A posteriori error control for a discontinuous Galerkin approximation of a Keller–Segel model. *Advances in Computational Mathematics*, 50 (6):??, December 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10212-w`.

Graf:2023:OBS

[GKKS23] Olga Graf, Felix Krahmer, and Sara Krause-Solberg. One-bit Sigma–Delta modulation on the circle. *Advances in Computational Mathematics*, 49(3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10032-4`.

Grohs:2020:AMS

[GKM+20] Philipp Grohs, Gitta Kutyniok, Jackie Ma, Philipp Petersen, and Mones Raslan. Anisotropic multiscale systems on bounded domains. *Advances in Computational*

Mathematics, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09784-0.

Geppert:2019:SPF

[GKS19] Jakob Geppert, Felix Krahmer, and Dominik Stöger. Sparse power factorization: balancing peakiness and sample complexity. *Advances in Computational Mathematics*, 45(3):1711–1728, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09698-6.

Guglielmi:2021:CLR

[GKS21] Nicola Guglielmi, Daniel Kressner, and Carmela Scalone. Computing low-rank rightmost eigenpairs of a class of matrix-valued linear operators. *Advances in Computational Mathematics*, 47 (5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09895-2.

Guo:2013:ORX

[GL13] Kanghui Guo and Demetrio Labate. Optimal recovery of 3D X-ray tomographic data via shearlet decomposition. *Advances in Computational Mathematics*, 39(2): 227–255, August 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-012-9276-x.

Guo:2017:MAE

[GL17] Kanghui Guo and Demetrio Labate. Microlocal analysis of edge flatness through directional multiscale representations. *Advances in Computational Mathematics*, 43(2): 295–318, April 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9486-8.

Ganesh:2023:HOA

[GL23] M. Ganesh and F. Le Louër. A high-order algorithm for time-domain scattering in three dimensions. *Advances in Computational Mathematics*, 49 (4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10033-3.

Girometti:2023:TID

[GLM23] Laura Girometti, Alessandro Lanza, and Serena Morigi. Ternary image decomposition with automatic parameter selection via auto- and cross-correlation. *Advances in Computational Mathematics*,

49(1):??, February 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-10000-4`.

Gracia:2010:CSS

[GLO10] J. L. Gracia, F. J. Lisbona, and E. O'Riordan. A coupled system of singularly perturbed parabolic reaction–diffusion equations. *Advances in Computational Mathematics*, 32(1):43–61, January 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9086-3`.

Gerbeau:2015:ROM

[GLS15] Jean-Frédéric Gerbeau, Damiano Lombardi, and Elisa Schenone. Reduced order model in cardiac electrophysiology with approximated Lax pairs. *Advances in Computational Mathematics*, 41(5):1103–1130, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9393-9`.

Grohs:2025:CDT

[GLS25] Philipp Grohs, Lukas Liehr, and Irina Shafkulovska. From completeness of discrete translates to phaseless sampling of the short-time Fourier transform. *Advances in Computational Mathematics*, 51(3):??, June 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10236-w`.

Goodman:1993:WBS

[GLT93] T. N. T. Goodman, S. L. Lee, and W. S. Tang. Wavelet bases for a set of commuting unitary operators. *Advances in Computational Mathematics*, 1(1):109–126, February 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02070823`.

Gong:2023:PEE

[GLX23] Wei Gong, Dongdong Liang, and Xiaoping Xie. Pointwise error estimates for linear finite element approximation to elliptic Dirichlet problems in smooth domains. *Advances in Computational Mathematics*, 49(2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10017-3`.

Gillman:2014:ACS

[GM14] Adrianna Gillman and Per-Gunnar Martinsson. An $O(N)$ algorithm for constructing the solution operator to 2D elliptic bound-

ary value problems in the absence of body loads. *Advances in Computational Mathematics*, 40(4):773–796, August 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9326-z`.

Ghelardoni:2017:MMF

[GM17] Paolo Ghelardoni and Cecilia Magherini. A matrix method for fractional Sturm–Liouville problems on bounded domain. *Advances in Computational Mathematics*, 43(6):1377–1401, December 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9529-9`.

Gopal:2022:AHO

[GM22] Abinand Gopal and Per-Gunnar Martinsson. An accelerated, high-order accurate direct solver for the Lippmann–Schwinger equation for acoustic scattering in the plane. *Advances in Computational Mathematics*, 48(4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09963-1`.

Gomez:2024:STD

[GM24] Sergio Gómez and Andrea Moiola. A space-time DG method for the Schrödinger equation with variable potential. *Advances in Computational Mathematics*, 50 (2):??, April 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10108-9`.

Graves-Morris:1997:CSI

[GMB97] P. R. Graves-Morris and B. Beckermann. The compass (star) identity for vector-valued rational interpolants. *Advances in Computational Mathematics*, 7(3): 279–294, May 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018951020406`.

Giesselmann:2023:PEE

[GMBS23] Jan Giesselmann, Elena Mäder-Baumdicker, and David Jakob Stonner. A posteriori error estimates for wave maps into spheres. *Advances in Computational Mathematics*, 49 (4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10051-1`.

Gatica:2009:NCM

[GMM09] Gabriel N. Gatica, Antonio Márquez, and Salim

Meddahi. A new coupling of mixed finite element and boundary element methods for an exterior Helmholtz problem in the plane. *Advances in Computational Mathematics*, 30(3): 281–301, April 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9068-5`.

Goodman:1997:SFL

[GMRS97] Tim N. T. Goodman, Charles A. Micchelli, Giuseppe Rodriguez, and Sebastiano Seatzu. Spectral factorization of Laurent polynomials. *Advances in Computational Mathematics*, 7(4): 429–454, August 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018915407202`.

Guessab:2012:CNF

[GMS12] Allal Guessab, María Moncayo, and Gerhard Schmeisser. A class of nonlinear four-point subdivision schemes. *Advances in Computational Mathematics*, 37(2):151–190, August 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9199-y`.

Gribonval:2001:AWG

[GN01] R. Gribonval and M. Nielsen. Approximate weak greedy algorithms. *Advances in Computational Mathematics*, 14 (4):361–378, May 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1012255021470`.

Gribonval:2008:BSR

[GN08] Rémi Gribonval and Morten Nielsen. Beyond sparsity: recovering structured representations by ℓ^1 minimization and greedy algorithms. *Advances in Computational Mathematics*, 28(1): 23–41, January 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-9009-5`.

Gupta:2013:PEE

[GN13] Nupur Gupta and Neela Nataraj. *A posteriori* error estimates for an optimal control problem of laser surface hardening of steel. *Advances in Computational Mathematics*, 39 (1):69–99, July 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9270-8`.

Gnaneshwar:2007:DKM

[Gna07] N. Gnaneshwar. A degenerate kernel method for eigenvalue problems of compact integral operators. *Advances in Computational Mathematics*, 27(3):339–354, October 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-9005-9`.

Griebel:1995:TPT

[GO95] M. Griebel and P. Oswald. Tensor product type subspace splittings and multilevel iterative methods for anisotropic problems. *Advances in Computational Mathematics*, 4(1–2):171–206, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02123478`.

Goodman:2005:SPI

[GO05] T. N. T. Goodman and B. H. Ong. Shape-preserving interpolation by splines using vector subdivision. *Advances in Computational Mathematics*, 22(1):49–77, January 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-1174-z`.

Garg:2026:STF

[GO26] Deepika Garg and Maxim Olshanskii. A stabilized trace FEM for surface Cahn–Hilliard equations: analysis and simulations. *Advances in Computational Mathematics*, 52(4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10331-6`.

Gomes:1995:CEW

[Gom95] Sônia M. Gomes. Convergence estimates for the wavelet-Galerkin method: superconvergence at the node points. *Advances in Computational Mathematics*, 4(1–2):261–282, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF03177516`.

Gonsor:1993:SAN

[Gon93] Daniel E. Gonsor. Subdivision algorithms with nonnegative masks generally converge. *Advances in Computational Mathematics*, 1(2):215–221, June 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02071386`.

Guo:2003:P

[GOZ03] Benqi Guo, Hae-Soo Oh, and Zhimin Zhang. Preface. *Advances in Computational Mathematics*, 19(1–3):1–2, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1022844220807`.

Gasca:1995:CAS

[GP95] M. Gasca and J. M. Peña. On the characterization of almost strictly totally positive matrices. *Advances in Computational Mathematics*, 3(3):239–250, April 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02432001`.

Garrappa:2013:EGM

[GP13] Roberto Garrappa and Marina Popolizio. Evaluation of generalized Mittag-Leffler functions on the real line. *Advances in Computational Mathematics*, 39(1):205–225, July 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9274-z`.

Grochenig:2014:URT

[GP14] Karlheinz Gröchenig and Elmar Pauwels. Uniqueness and reconstruction theorems for pseudodifferential operators with a bandlimited Kohn–Nirenberg symbol. *Advances in Computational Mathematics*, 40(1):49–63, February 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9297-0`.

Gosea:2018:BTL

[GPAF18] Ion Victor Gosea, Mihaly Petreczky, Athanasios C. Antoulas, and Christophe Fiter. Balanced truncation for linear switched systems. *Advances in Computational Mathematics*, 44(6):1845–1886, December 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9610-z`.

Guy:2015:GMI

[GPG15] Robert D. Guy, Bobby Philip, and Boyce E. Griffith. Geometric multigrid for an implicit-time immersed boundary method. *Advances in Computational Mathematics*, 41(3):635–662, June 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9380-1`.

Garcia-Puente:2010:LPP

[GPS10] Luis David Garcia-Puente

and Frank Sottile. Linear precision for parametric patches. *Advances in Computational Mathematics*, 33(2): 191–214, August 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9126-7`.

Graham:2021:AHP

[GPS21] I. G. Graham, O. R. Pembery, and E. A. Spence. Analysis of a Helmholtz preconditioning problem motivated by uncertainty quantification. *Advances in Computational Mathematics*, 47 (5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09889-0`.

Gerhards:2017:PCS

[GPT17] Christian Gerhards, Sergiy Pereverzyev, Jr., and Pavlo Tkachenko. A parameter choice strategy for the inversion of multiple observations. *Advances in Computational Mathematics*, 43(1): 101–112, February 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9477-9`.

Guichard:2022:WPN

[GQ22] Cindy Guichard and El Houssaine Quenjel. Weighted positive nonlinear finite volume method for dominated anisotropic diffusive equations. *Advances in Computational Mathematics*, 48(6): ??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09995-7`.

Gao:2024:OCM

[GQL24] Xinyue Gao, Yi Qin, and Jian Li. Optimally convergent mixed finite element methods for the time-dependent 2D/3D stochastic closed-loop geothermal system with multiplicative noise. *Advances in Computational Mathematics*, 50(3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10122-x`.

Greengard:2019:AEI

[GR19] Philip Greengard and Vladimir Rokhlin. An algorithm for the evaluation of the incomplete gamma function. *Advances in Computational Mathematics*, 45(1):23–49, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9604-x`.

Graf:2012:UAS

[Grä12] Manuel Gräf. A unified

approach to scattered data approximation on $\mathbf{S}^3$ and SO(3). *Advances in Computational Mathematics*, 37(3): 379–392, October 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9214-3`.

Gillette:2012:EEG

[GRB12] Andrew Gillette, Alexander Rand, and Chandrajit Bajaj. Error estimates for generalized barycentric interpolation. *Advances in Computational Mathematics*, 37(3): 417–439, October 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9218-z`.

Gomes:2019:TCA

[GRdSA19] Daniele C. R. Gomes, Mauro A. Rincon, Maria Darci G. da Silva, and Gladson O. Antunes. Theoretical and computational analysis of a nonlinear Schrödinger problem with moving boundary. *Advances in Computational Mathematics*, 45(2): 981–1004, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9643-3`.

Grochenig:2003:LFF

[Grö03] Karlheinz Gröchenig. Localized frames are finite unions of Riesz sequences. *Advances in Computational Mathematics*, 18(2–4):149–157, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021368609918`. Frames.

Grohs:2013:RFD

[Gro13] Philipp Grohs. Refinable functions for dilation families. *Advances in Computational Mathematics*, 38(3): 531–561, April 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9248-6`.

Gemignani:2022:BLP

[GRV22] Luca Gemignani, Lucia Romani, and Alberto Viscardi. Bezout-like polynomial equations associated with dual univariate interpolating subdivision schemes. *Advances in Computational Mathematics*, 48(1):??, February 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09912-4`.

Gasca:2000:PIS

[GS00] Mariano Gasca and Thomas Sauer. Polynomial interpolation in several variables. *Advances in Computational Mathematics*, 12(4):

377–410, March 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018981505752`. Multivariate polynomial interpolation.

Guessab:2010:CPD

[GS10] Allal Guessab and Gerhard Schmeisser. Construction of positive definite cubature formulae and approximation of functions via Voronoi tessellations. *Advances in Computational Mathematics*, 32(1): 25–41, January 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9080-9`.

Greengard:2012:E

[GS12] Leslie Greengard and Michael Shelley. Editorial. *Advances in Computational Mathematics*, 36(1):1, January 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9267-3`; `http://link.springer.com/content/pdf/10.1007/s10444-011-9267-3.pdf`.

Guo:2013:LCB

[GS13] Zheng-Chu Guo and Lei Shi. Learning with coefficient-based regularization and ℓ^1-penalty. *Advances in Computational Mathematics*, 39(3–4):493–510, October 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9288-6`.

Gao:2018:ALG

[GS18] Huadong Gao and Weiwei Sun. Analysis of linearized Galerkin-mixed FEMs for the time-dependent Ginzburg–Landau equations of superconductivity. *Advances in Computational Mathematics*, 44(3):923–949, June 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9568-2`.

Guglielmi:2019:CCR

[GS19a] Nicola Guglielmi and Carmela Scalone. Computing the closest real normal matrix and normal completion. *Advances in Computational Mathematics*, 45(5–6):2867–2891, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09717-6`.

Guo:2019:FSC

[GS19b] Zheng-Chu Guo and Lei Shi. Fast and strong convergence of online learning algorithms. *Advances in Computational*

Mathematics, 45(5–6):2745–2770, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09707-8`.

Guglielmi:2020:EMN

[GS20] Nicola Guglielmi and Carmela Scalone. An efficient method for non-negative low-rank completion. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09779-x`.

Gottlich:2022:CST

[GS22] Simone Göttlich and Thomas Schillinger. Control strategies for transport networks under demand uncertainty. *Advances in Computational Mathematics*, 48(6):??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09993-9`.

Ghosh:2025:OGF

[GS25a] Riya Ghosh and A. Antony Selvan. Obstructions for Gabor frames of the second-order B-spline. *Advances in Computational Mathematics*, 51(3):??, June 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10239-7`.

Guo:2025:OLA

[GS25b] Zheng-Chu Guo and Lei Shi. Online learning algorithms tackling covariate shift. *Advances in Computational Mathematics*, 51(6):??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10276-2`.

Giannelli:2022:IDS

[GSS22] Carlotta Giannelli, Lorenzo Sacco, and Alessandra Sestini. Interpolation of 3D data streams with C^2 PH quintic splines. *Advances in Computational Mathematics*, 48(5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09976-w`.

Garcia:2014:NOV

[GT14] Galina C. García and Takéo Takahashi. Numerical observers with vanishing viscosity for the 1 d wave equation. *Advances in Computational Mathematics*, 40(4):711–745, August 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9320-5`.

Tang:2002:SMI

[gTpM02] Jian guo Tang and He ping Ma. Single and multi-interval Legendre τ-methods in time for parabolic equations. *Advances in Computational Mathematics*, 17(4):349–367, November 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016273820035`.

Gravesen:2002:CIF

[GU02] Jens Gravesen and Michael Ungstrup. Constructing invariant fairness measures for surfaces. *Advances in Computational Mathematics*, 17 (1–2):67–88, July 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1015229622042`. Advances in geometrical algorithms and representations.

Gu:2017:PSC

[Gu17] Zhendong Gu. Piecewise spectral collocation method for system of Volterra integral equations. *Advances in Computational Mathematics*, 43 (2):385–409, April 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9490-z`.

Gu:2019:SCM

[Gu19] Zhendong Gu. Spectral collocation method for system of weakly singular Volterra integral equations. *Advances in Computational Mathematics*, 45(5–6):2677–2699, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09703-y`.

Gu:2020:SCM

[Gu20] Zhendong Gu. Spectral collocation method for nonlinear Caputo fractional differential system. *Advances in Computational Mathematics*, 46(5):??, October 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09808-9`.

Gutleb:2021:FSS

[Gut21] Timon S. Gutleb. A fast sparse spectral method for nonlinear integro-differential Volterra equations with general kernels. *Advances in Computational Mathematics*, 47(3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09866-7`.

Gonzalez-Vera:1996:SRA

[GVSLN96] P. González-Vera, J. C.

Santos-León, and O. Njåstad. Some results about numerical quadrature on the unit circle. *Advances in Computational Mathematics*, 5(1):297–328, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124749`.

Guo:2014:CMG

[GW14] Ben-Yu Guo and Zhong-Qing Wang. A collocation method for generalized nonlinear Klein–Gordon equation. *Advances in Computational Mathematics*, 40(2):377–398, April 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9312-5`.

Gao:2017:CRK

[GW17] Wenwu Gao and Zongmin Wu. Constructing radial kernels with higher-order generalized Strang–Fix conditions. *Advances in Computational Mathematics*, 43(6):1355–1375, December 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9528-x`.

Guo:2021:EHV

[GW21] Yuling Guo and Zhongqing Wang. An *hp*-version Legendre spectral collocation method for multi-order fractional differential equations. *Advances in Computational Mathematics*, 47(3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09858-7`.

Gu:2024:ESM

[GWC24] Xuelong Gu, Yushun Wang, and Wenjun Cai. Energy stable and maximum bound principle preserving schemes for the Allen–Cahn equation based on the saul'yev methods. *Advances in Computational Mathematics*, 50(3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10142-7`.

Goodman:1999:IM

[GY99] Tim N. T. Goodman and Thomas P. Y. Yu. Interpolation of medians. *Advances in Computational Mathematics*, 11(1):1–10, July 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018959506235`.

Goh:2000:UPL

[GY00] Say Song Goh and Chee Heng Yeo. Uncertainty products of local periodic wavelets.

Advances in Computational Mathematics, 13(3):319–333, July 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018962428951`.

Yi:2012:GJR

[gYyG12] Yong gang Yi and Ben yu Guo. Generalized Jacobi rational spectral method on the half line. *Advances in Computational Mathematics*, 37(1):1–37, July 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9193-4`.

Guo:2017:ORL

[GYZ17] Zheng-Chu Guo, Yiming Ying, and Ding-Xuan Zhou. Online regularized learning with pairwise loss functions. *Advances in Computational Mathematics*, 43(1):127–150, February 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9479-7`.

Guo:2013:CEL

[GZ13] Zheng-Chu Guo and Ding-Xuan Zhou. Concentration estimates for learning with unbounded sampling. *Advances in Computational Mathematics*, 38(1):207–223, January 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9238-8`.

Gopal:2025:HAP

[GZ25] Abinand Gopal and Hanwen Zhang. A highly accurate procedure for computing globally optimal Wannier functions in one-dimensional crystalline insulators. *Advances in Computational Mathematics*, 51(6):??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10266-4`.

Gosea:2020:PDS

[GZA20] Ion Victor Gosea, Qiang Zhang, and Athanasios C. Antoulas. Preserving the DAE structure in the Loewner model reduction and identification framework. *Advances in Computational Mathematics*, 46(1):??, February 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09752-8`.

Gong:2018:LSO

[GZW18] Yuezheng Gong, Jia Zhao, and Qi Wang. Linear second order in time energy stable schemes for hydrodynamic models of binary mixtures

based on a spatially pseudospectral approximation. *Advances in Computational Mathematics*, 44(5):1573–1600, October 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9597-5`.

Guo:2025:UFE

[GZZ25] Hailong Guo, Mingyan Zhang, and Zhimin Zhang. Unfitted finite element method for the quad-curl interface problem. *Advances in Computational Mathematics*, 51 (1):??, February 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10213-9`.

Hagger:1998:ADD

[Hag98] M. J. Hagger. Automatic domain decomposition on unstructured grids (DOUG). *Advances in Computational Mathematics*, 9(3–4):281–310, November 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018997725374`.

Hakopian:2000:CHI

[Hak00] Hakop A. Hakopian. On a class of Hermite interpolation problems. *Advances in Computational Mathematics*, 12(4):303–309, March 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018933622590`. Multivariate polynomial interpolation.

Hall:1995:NSS

[Hal95] George Hall. A new stepsize strategy for explicit Runge–Kutta codes. *Advances in Computational Mathematics*, 3(4):343–352, May 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF03028367`.

Han:1998:SOS

[Han98] Bin Han. Symmetric orthonormal scaling functions and wavelets with dilation factor 4. *Advances in Computational Mathematics*, 8(4): 221–247, June 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018948314471`.

Hansen:2005:FCM

[Han05] Olaf Hansen. A fast collocation method for the radiosity equation, based on the hierarchical algorithm of Hanrahan and Salzman: the 1 d case. *Advances in Computational Mathematics*, 22 (4):353–375, May 2005. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-003-3962-7.

Han:2006:SSS

[Han06] Bin Han. Solutions in Sobolev spaces of vector refinement equations with a general dilation matrix. *Advances in Computational Mathematics*, 24(1–4):375–403, January 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-7615-2.

Han:2010:SOC

[Han10] Bin Han. Symmetric orthonormal complex wavelets with masks of arbitrarily high linear-phase moments and sum rules. *Advances in Computational Mathematics*, 32(2):209–237, February 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9102-7.

Hangelbroek:2012:LRA

[Han12] T. Hangelbroek. On local RBF approximation. *Advances in Computational Mathematics*, 37(2):285–299, August 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9212-5.

Han:2024:IRF

[Han24a] Bin Han. Interpolating refinable functions and n_s-step interpolatory subdivision schemes. *Advances in Computational Mathematics*, 50(5):??, October 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10192-x.

Hanke:2024:SMS

[Han24b] Martin Hanke. Stochastic modeling of stationary scalar Gaussian processes in continuous time from autocorrelation data. *Advances in Computational Mathematics*, 50(4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10150-7.

Hollig:2005:IWM

[HAS05] Klaus Höllig, Christian Apprich, and Anja Streit. Introduction to the Web-method and its applications. *Advances in Computational Mathematics*, 23(1–2):215–237, July 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-1811-y.

Hauber:1997:NTR

[Hau97] R. Hauber. Numerical treatment of retarded differential–algebraic equations by collocation methods. *Advances in Computational Mathematics*, 7(4):573–592, August 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018919508111`.

Hachama:2024:FOM

[HB24] Mohammed Hachama and Fatiha Boutaous. A fractional osmosis model for image fusion. *Advances in Computational Mathematics*, 50 (1):??, February 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10103-6`.

Herkert:2024:DBO

[HBH24] Robin Herkert, Patrick Buchfink, and Bernard Haasdonk. Dictionary-based online-adaptive structure-preserving model order reduction for parametric Hamiltonian systems. *Advances in Computational Mathematics*, 50 (1):??, February 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10102-7`.

Hoefkens:2003:CVS

[HBM03] Jens Hoefkens, Martin Berz, and Kyoko Makino. Computing validated solutions of implicit differential equations. *Advances in Computational Mathematics*, 19(1–3):231–253, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1022858921155`. Challenges in computational mathematics (Pohang, 2001).

Hao:2014:HOA

[HBMY14] S. Hao, A. H. Barnett, P. G. Martinsson, and P. Young. High-order accurate methods for Nyström discretization of integral equations on smooth curves in the plane. *Advances in Computational Mathematics*, 40(1): 245–272, February 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9306-3`.

Huang:2021:ACE

[HCF+21] Jingfang Huang, Jian Cao, Fuhui Fang, Marc G. Genton, David E. Keyes, and George Turkiyyah. An $O(N)$ algorithm for computing expectation of N-dimensional truncated multi-variate normal distribution I: fundamentals. *Advances in Computational Mathematics*, 47

(5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09888-1`.

Hu:2020:CFE

[HCH20] Hanzhang Hu, Yanping Chen, and Yunqing Huang. A characteristic finite element two-grid algorithm for a compressible miscible displacement problem. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09768-0`.

Hou:2020:TGR

[HCYY20] Tianliang Hou, Luoping Chen, Yueting Yang, and Yin Yang. Two-grid Raviart–Thomas mixed finite element methods combined with Crank–Nicolson scheme for a class of nonlinear parabolic equations. *Advances in Computational Mathematics*, 46 (2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09777-z`.

Herzet:2020:PGV

[HD20] C. Herzet and M. Diallo. Performance guarantees for a variational "multi-space" decoder. *Advances in Computational Mathematics*, 46 (1):??, February 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09746-6`.

Han:2024:TGS

[HD24] Jing Han and Guangzhi Du. Two-grid stabilized finite element methods with backtracking for the stationary Navier–Stokes equations. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10180-1`.

Hemker:1995:SGF

[Hem95] P. W. Hemker. Sparse-grid finite-volume multigrid for 3D-problems. *Advances in Computational Mathematics*, 4(1–2):83–110, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02123474`. ???

Hemker:1996:CSG

[Hem96] P. W. Hemker. Corrigendum: "Sparse-grid finite-volume multigrid for 3D-problems" [*Adv. Comput. Math.* **4** (1995), no. 1–2, 83–110; MR1338896 (96c:65193)]. *Advances in Computational*

Mathematics, 5(1):125–126, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124737`; `http://link.springer.com/content/pdf/10.1007/BF02124737.pdf`. See [Hem95].

Hesse:2009:ESD

[Hes09] Kerstin Hesse. The s-energy of spherical designs on S^2. *Advances in Computational Mathematics*, 30(1):37–59, January 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9057-0`.

Holman:2019:CAM

[HF19] Jirí Holman and Jirí Fürst. Coupling the algebraic model of bypass transition with EARSM model of turbulence. *Advances in Computational Mathematics*, 45(4):1977–1992, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09680-2`.

Hass:2007:GCS

[HFH+07] Joel Hass, Rida T. Farouki, Chang Yong Han, Xiaowen Song, and Thomas W. Sederberg. Guaranteed consistency of surface intersections and trimmed surfaces using a coupled topology resolution and domain decomposition scheme. *Advances in Computational Mathematics*, 27(1):1–26, July 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-7539-5`.

Huang:2015:ETS

[HFH15] Pengzhan Huang, Xinlong Feng, and Yinnian He. An efficient two-step algorithm for the incompressible flow problem. *Advances in Computational Mathematics*, 41(6):1495–1513, December 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9400-1`.

Hong:2025:RKB

[HG25] Qi Hong and Zheng-Chu Guo. Robust kernel-based gradient descent with random features. *Advances in Computational Mathematics*, 51(6):??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10263-7`.

Helsing:2015:VEK

[HH15] Johan Helsing and Anders Holst. Variants of an

explicit kernel-split panel-based Nyström discretization scheme for Helmholtz boundary value problems. *Advances in Computational Mathematics*, 41(3):691–708, June 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9383-y`.

He:2016:DDR

[HH16] Hongjin He and Deren Han. A distributed Douglas–Rachford splitting method for multi-block convex minimization problems. *Advances in Computational Mathematics*, 42(1):27–53, February 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9408-1`.

Hric:2019:NSN

[HH19a] Vladimír Hric and Jan Halama. On the numerical solution of non-equilibrium condensation of steam in nozzles. *Advances in Computational Mathematics*, 45(4):2147–2162, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09700-1`.

Hu:2019:SPV

[HH19b] Qiya Hu and Shaoliang Hu. A substructuring preconditioner with vertex-related interface solvers for elliptic-type equations in three dimensions. *Advances in Computational Mathematics*, 45(3):1129–1161, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9648-y`.

Harbrecht:2024:MAG

[HHKS24] Helmut Harbrecht, Lukas Herrmann, Kristin Kirchner, and Christoph Schwab. Multilevel approximation of Gaussian random fields: Covariance compression, estimation, and spatial prediction. *Advances in Computational Mathematics*, 50 (5):??, October 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10187-8`.

Hardin:2004:MVR

[HHS04] Douglas P. Hardin, Thomas A. Hogan, and Qiyu Sun. The matrix-valued Riesz lemma and local orthonormal bases in shift-invariant spaces. *Advances in Computational Mathematics*, 20 (4):367–384, May 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.`

springer.com/article/10.1023/A:1027389826705.

Hall-Hooper:2024:EIM

[HHSM24] Khalil A. Hall-Hooper, Arvind K. Saibaba, and Scot M. Miller. Efficient iterative methods for hyperparameter estimation in large-scale linear inverse problems. *Advances in Computational Mathematics*, 50 (6):??, December 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10208-6.

He:2018:CPI

[HHX18a] Hongjin He, Liusheng Hou, and Hong-Kun Xu. Correction to: A partially isochronous splitting algorithm for three-block separable convex minimization problems. *Advances in Computational Mathematics*, 44(4):1117–1118, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9591-y. See [HHX18b].

He:2018:PIS

[HHX18b] Hongjin He, Liusheng Hou, and Hong-Kun Xu. A partially isochronous splitting algorithm for three-block separable convex minimization problems. *Advances in Computational Mathematics*, 44(4):1091–1115, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-017-9574-4. See correction [HHX18a].

Hubbert:2023:GWF

[HJ23] Simon Hubbert and Janin Jäger. Generalised Wendland functions for the sphere. *Advances in Computational Mathematics*, 49(1):??, February 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-10005-z.

Hubbert:2025:CFR

[HJ25] Simon Hubbert and Janin Jäger. Closed form representations for the compactly supported radial basis functions of Buhmann, Wendland and Wu. *Advances in Computational Mathematics*, 51 (6):??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10262-8.

Hiptmair:2012:MTB

[HJH12] R. Hiptmair and C. Jerez-Hanckes. Multiple traces boundary integral formulation for Helmholtz transmission problems. *Advances in Computational Mathematics*,

37(1):39–91, July 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9194-3`.

Hu:1997:ROC

[HJJV97] Min Hu, Ken Jackson, Jan Janssen, and Stefan Vandewalle. Remarks on the optimal convolution kernel for CSOR waveform relaxation. *Advances in Computational Mathematics*, 7(1–2): 135–156, March 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018938617680`. Parallel methods for ODEs.

Huang:2023:LMS

[HJYZ23] Qiong-Ao Huang, Wei Jiang, Jerry Zhijian Yang, and Gengen Zhang. Linear multi-step methods and their numerical stability for solving gradient flow equations. *Advances in Computational Mathematics*, 49(3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10043-1`.

Hinze:2021:STC

[HK21] Michael Hinze and Denis Korolev. A space-time certified reduced basis method for quasilinear parabolic partial differential equations. *Advances in Computational Mathematics*, 47 (3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09860-z`.

Healy:2004:TSE

[HKR04] D. M. Healy, Jr., P. J. Kostelec, and D. Rockmore. Towards safe and effective high-order Legendre transforms with applications to FFTs for the 2-sphere. *Advances in Computational Mathematics*, 21(1–2):59–105, July 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/B:ACOM.0000016431.03652.65`.

Helsing:2021:CIE

[HKR21] Johan Helsing, Anders Karlsson, and Andreas Rosén. Comparison of integral equations for the Maxwell transmission problem with general permittivities. *Advances in Computational Mathematics*, 47(5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09904-4`.

Haslinger:2014:DDM

[HKRS14] Jaroslav Haslinger, Radek Kučera, Julien Riton, and

Taoufik Sassi. A domain decomposition method for two-body contact problems with Tresca friction. *Advances in Computational Mathematics*, 40(1):65–90, February 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9299-y`.

Heiland:2025:DPA

[HKW25] Jan Heiland, Yongho Kim, and Steffen W. R. Werner. Deep polytopic autoencoders for low-dimensional linear parameter-varying approximations and nonlinear feedback controller design. *Advances in Computational Mathematics*, 51(6):??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10269-1`.

Hansen:1996:LUC

[HL96] Lars Kai Hansen and Jan Larsen. Linear unlearning for cross-validation. *Advances in Computational Mathematics*, 5(1):269–280, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124747`.

Han:2005:FPA

[HL05] Weimin Han and Wing Kam Liu. Flexible piecewise approximations based on partition of unity. *Advances in Computational Mathematics*, 23(1–2):191–199, July 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1810-z`.

He:2006:MLS

[HL06] Yinnian He and Kam-Moon Liu. Multi-level spectral Galerkin method for the Navier–Stokes equations. II. Time discretization. *Advances in Computational Mathematics*, 25(4):403–433, November 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7640-1`.

Hesse:2008:CES

[HL08] Kerstin Hesse and Paul Leopardi. The Coulomb energy of spherical designs on S^2. *Advances in Computational Mathematics*, 28(4):331–354, May 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9026-7`.

Hamm:2016:CIG

[HL16a] Keaton Hamm and Jeff Ledford. Cardinal interpolation with general multiquadrics. *Advances in Computational Mathematics*, 42(5):1149–1186, October 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9457-0`.

Ho:2016:QQC

[HL16b] Kin Tat Ho and Lok Ming Lui. QCMC: quasi-conformal parameterizations for multiply-connected domains. *Advances in Computational Mathematics*, 42(2):279–312, April 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9424-1`.

Hamm:2018:CIG

[HL18] Keaton Hamm and Jeff Ledford. Cardinal interpolation with general multiquadrics: convergence rates. *Advances in Computational Mathematics*, 44(4):1205–1233, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9578-0`.

Huang:2020:NAF

[HL20] Yunqing Huang and Jichun Li. Numerical analysis of a finite element method for the electromagnetic concentrator model. *Advances in Computational Mathematics*, 46 (6):??, December 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09817-8`.

Hou:2021:TSF

[HL21] Pengyu Hou and Fang Liu. Two-scale finite element discretizations for nonlinear eigenvalue problems in quantum physics. *Advances in Computational Mathematics*, 47(4):??, August 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09883-6`.

He:2026:RGD

[HLC26] Bin-Xin He, Hao Liu, and Xiao-Ping Chen. Randomized gradient descent method for solving the large-scale inverse eigenvalue problem arising from the fractional order control system. *Advances in Computational Mathematics*, 52(4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10324-5`.

Huang:2025:DAS

[HLL25] Yunqing Huang, Jichun Li,

and Xin Liu. Developing and analyzing some new finite element methods for a nonlocal hydrodynamic Drude model. *Advances in Computational Mathematics*, 51 (6):??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10272-6`.

Hintermuller:2012:SOT

[HLN12] M. Hintermüller, A. Laurain, and A. A. Novotny. Second-order topological expansion for electrical impedance tomography. *Advances in Computational Mathematics*, 36 (2):235–265, February 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9205-4`.

Han:2011:FTA

[HLT11] Deguang Han, Pengtong Li, and Wai-Shing Tang. Frames and their associated H^p_F-subspaces. *Advances in Computational Mathematics*, 34(2):185–200, February 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9149-0`.

Hoonhout:2026:SLS

[HLUT26] Daniel Hoonhout, Richard Löscher, and Carolina Urzúa-Torres. Stable least-squares space-time boundary element methods for the wave equation. *Advances in Computational Mathematics*, 52(1): ??, February 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10282-y`.

Han:2003:MFR

[HM03] Bin Han and Qun Mo. Multiwavelet frames from refinable function vectors. *Advances in Computational Mathematics*, 18(2–4):211–245, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021360312348`. Frames.

Hu:2021:OSA

[HMM21] Jun Hu, Limin Ma, and Rui Ma. Optimal superconvergence analysis for the Crouzeix–Raviart and the Morley elements. *Advances in Computational Mathematics*, 47(4):??, August 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09874-7`.

Hieu:2022:OSO

[HMQ22] Dang Van Hieu, Le Dung Muu, and Pham Kim Quy.

One-step optimization method for equilibrium problems. *Advances in Computational Mathematics*, 48(3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09953-3`.

Harris:2019:CIP

[HMS19] Corey Harris, Mateusz Michałek, and Emre Can Sertöz. Computing images of polynomial maps. *Advances in Computational Mathematics*, 45(5–6):2845–2865, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09715-8`.

Hao:2022:AFE

[HMX22] Tingting Hao, Manman Ma, and Xuejun Xu. Adaptive finite element approximation for steady-state Poisson–Nernst–Planck equations. *Advances in Computational Mathematics*, 48 (4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09938-2`.

Howlett:1996:F

[HN96] Jack Howlett and J. C. Newby. Foreword. *Advances in Computational Mathematics*, 6(1):iii–vi, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127692`.

Halla:2018:TSH

[HN18] Martin Halla and Lothar Nannen. Two scale Hardy space infinite elements for scalar waveguide problems. *Advances in Computational Mathematics*, 44(3):611–643, June 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9549-5`.

Hofit:2023:GHI

[HNN23] Ben-Zion Vardi Hofit, Dyn Nira, and Sharon Nir. Geometric Hermite interpolation in $\mathbf{R}^n$ by refinements. *Advances in Computational Mathematics*, 49 (3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10037-z`.

Hashemi:2022:REP

[HNT22] Behnam Hashemi, Yuji Nakatsukasa, and Lloyd N. Trefethen. Rectangular eigenvalue problems. *Advances in Computational Mathematics*, 48(6):??, December 2022. CODEN ACMHEX. ISSN

1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09994-8.

Himpe:2015:DDC

[HO15] Christian Himpe and Mario Ohlberger. Data-driven combined state and parameter reduction for inverse problems. *Advances in Computational Mathematics*, 41(5):1343–1364, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-015-9420-5.

Hegarty:2017:PUN

[HO17] A. F. Hegarty and E. O'Riordan. Parameter-uniform numerical method for singularly perturbed convection–diffusion problem on a circular domain. *Advances in Computational Mathematics*, 43(5):885–909, October 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9510-z.

Hoffman:2006:GVI

[Hof06] Alan J. Hoffman. Gersgorin variations. II. On themes of Fan and Gudkov. *Advances in Computational Mathematics*, 25(1–3):1–6, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-7624-1.

Holst:2001:ANT

[Hol01] M. Holst. Adaptive numerical treatment of elliptic systems on manifolds. *Advances in Computational Mathematics*, 15(1–4):139–191, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1014246117321. *A posteriori* error estimation and adaptive computational methods.

Hain:2019:HPE

[HORU19] Stefan Hain, Mario Ohlberger, Mladjan Radic, and Karsten Urban. A hierarchical a posteriori error estimator for the Reduced Basis Method. *Advances in Computational Mathematics*, 45(5–6):2191–2214, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09675-z.

Howlett:1996:FJC

[How96] Jack Howlett. Foreword: John Crank. *Advances in Computational Mathematics*, 6(1):vii–viii, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). John Crank 80th birthday special issue.

Hielscher:2024:OAS

[HP24] Ralf Hielscher and Tim Pöschl. An optimal ansatz space for moving least squares approximation on spheres. *Advances in Computational Mathematics*, 50 (6):??, December 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10201-z`.

Hrkac:2019:CTP

[HPP+19] Gino Hrkac, Carl-Martin Pfeiler, Dirk Praetorius, Michele Ruggeri, Antonio Segatti, and Bernhard Stiftner. Convergent tangent plane integrators for the simulation of chiral magnetic skyrmion dynamics. *Advances in Computational Mathematics*, 45(3):1329–1368, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09667-z`.

Herzog:2019:FIS

[HPS19] Roland Herzog, John W. Pearson, and Martin Stoll. Fast iterative solvers for an optimal transport problem. *Advances in Computational Mathematics*, 45(2): 495–517, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9625-5`.

Hieu:2020:AHM

[HQHV20] Dang Van Hieu, Pham Kim Quy, La Thi Hong, and Le Van Vy. Accelerated hybrid methods for solving pseudomonotone equilibrium problems. *Advances in Computational Mathematics*, 46 (4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09778-y`.

Hess:2023:DDS

[HQR23] Martin W. Hess, Annalisa Quaini, and Gianluigi Rozza. A data-driven surrogate modeling approach for time-dependent incompressible Navier–Stokes equations with dynamic mode decomposition and manifold interpolation. *Advances in Computational Mathematics*, 49 (2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10016-4`.

Heuveline:2001:PEC

[HR01] Vincent Heuveline and Rolf Rannacher. *A posteriori* error control for finite element approximations of elliptic eigenvalue problems. *Advances in Computational*

Mathematics, 15(1–4):107–138, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014291224961`. *A posteriori* error estimation and adaptive computational methods.

Hsiao:2002:WCM

[HR02] George C. Hsiao and Andreas Rathsfeld. Wavelet collocation methods for a first kind boundary integral equation in acoustic scattering. *Advances in Computational Mathematics*, 17(4):281–308, November 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016249415373`.

Hearn:2013:EJR

[HR13] Tristan A. Hearn and Lothar Reichel. Extensions of the Justen–Ramlau blind deconvolution method. *Advances in Computational Mathematics*, 39(3–4):465–491, October 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9290-z`.

Holhos:2017:APM

[HR17] Adrian Holhoş and Daniela Roşca. Area preserving maps and volume preserving maps between a class of polyhedrons and a sphere. *Advances in Computational Mathematics*, 43(4):677–697, August 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9502-z`.

Heuer:2003:ODD

[HS03] Norbert Heuer and Ernst P. Stephan. An overlapping domain decomposition preconditioner for high order BEM with anisotropic elements. *Advances in Computational Mathematics*, 19(1–3):211–230, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1022899205324`. Challenges in computational mathematics (Pohang, 2001).

Hon:2008:SPD

[HS08] Y. C. Hon and Robert Schaback. Solvability of partial differential equations by meshless kernel methods. *Advances in Computational Mathematics*, 28(3):283–299, April 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-006-9023-2`.

Hon:2013:SLE

[HS13] Y. C. Hon and R. Schaback. Solving the 3D Laplace equation by meshless collocation via harmonic kernels. *Advances in Computational Mathematics*, 38 (1):1–19, January 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9224-1`.

Huang:2016:SCM

[HS16] Can Huang and Martin Stynes. A spectral collocation method for a weakly singular Volterra integral equation of the second kind. *Advances in Computational Mathematics*, 42(5):1015–1030, October 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9451-6`.

Huang:2020:OSC

[HS20] Chaobao Huang and Martin Stynes. Optimal H^1 spatial convergence of a fully discrete finite element method for the time-fractional Allen–Cahn equation. *Advances in Computational Mathematics*, 46(4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09805-y`.

Hiptmair:2018:LDS

[HSSS18] R. Hiptmair, L. Scarabosio, C. Schillings, and Ch. Schwab. Large deformation shape uncertainty quantification in acoustic scattering. *Advances in Computational Mathematics*, 44(5):1475–1518, October 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9594-8`.

Hong:2009:ELC

[HSV09] Byung-Woo Hong, Stefano Soatto, and Luminita A. Vese. Enforcing local context into shape statistics. *Advances in Computational Mathematics*, 31(1–3):185–213, October 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9104-5`.

Hu:2016:STD

[HSY16] Jun Hu, Zhongci Shi, and Xueqin Yang. Superconvergence of three dimensional Morley elements on cuboid meshes for biharmonic equations. *Advances in Computational Mathematics*, 42(6):1453–1471, December 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.`

springer.com/article/10.1007/s10444-016-9470-3.

Herrmann:2024:NSO

[HSZ24] Lukas Herrmann, Christoph Schwab, and Jakob Zech. Neural and spectral operator surrogates: unified construction and expression rate bounds. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10171-2.

Hon:2011:DTR

[HT11] Y. C. Hon and Tomoya Takeuchi. Discretized Tikhonov regularization by reproducing kernel Hilbert space for backward heat conduction problem. *Advances in Computational Mathematics*, 34(2): 167–183, February 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-010-9148-1.

He:2012:TLL

[HT12] Lianhua He and Lutz Tobiska. The two-level local projection stabilization as an enriched one-level approach. *Advances in Computational Mathematics*, 36 (4):503–523, May 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9188-1.

Hao:2024:AWS

[HT24] Liyao Hao and Wenyi Tian. Analysis of a WSGD scheme for backward fractional Feynman–Kac equation with nonsmooth data. *Advances in Computational Mathematics*, 50(4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10188-7.

Hu:2007:RDD

[Hu07] Qiya Hu. A regularized domain decomposition method with Lagrange multiplier. *Advances in Computational Mathematics*, 26 (4):367–401, May 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-4094-4.

Huang:2006:CMB

[Hua06] Min Huang. A construction of multiscale bases for Petrov–Galerkin methods for integral equations. *Advances in Computational Mathematics*, 25 (1–3):7–22, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-003-7607-7.

Hubbert:2012:CFR

[Hub12] Simon Hubbert. Closed form representations for a class of compactly supported radial basis functions. *Advances in Computational Mathematics*, 36(1): 115–136, January 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9184-5`.

Hakopian:2019:CPE

[HV19a] Hakop Hakopian and Vahagn Vardanyan. On a correction of a property of GC_n sets. *Advances in Computational Mathematics*, 45(1): 311–325, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9618-4`.

Hakopian:2019:ULS

[HV19b] Hakop Hakopian and Vahagn Vardanyan. On the usage of lines in GC_n sets. *Advances in Computational Mathematics*, 45(5–6):2721–2743, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09705-w`.

Hickernell:2000:IAA

[HW00] F. J. Hickernell and H. Woźniakowski. Integration and approximation in arbitrary dimensions. *Advances in Computational Mathematics*, 12(1): 25–58, January 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018948631251`. High dimensional integration.

Hesse:2012:NIP

[HW12] Kerstin Hesse and Robert S. Womersley. Numerical integration with polynomial exactness over a spherical cap. *Advances in Computational Mathematics*, 36(3): 451–483, April 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9187-2`.

Hong:2018:CRM

[HW18] Qi Hong and Jiming Wu. Coercivity results of a modified Q_1-finite volume element scheme for anisotropic diffusion problems. *Advances in Computational Mathematics*, 44(3):897–922, June 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9567-3`.

Huang:2019:ASM

[HW19a] Can Huang and Li-Lian Wang. An accurate spectral method for the transverse

magnetic mode of Maxwell equations in Cole–Cole dispersive media. *Advances in Computational Mathematics*, 45(2):707–734, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9636-2`.

Huning:2019:CSS

[HW19b] Svenja Hüning and Johannes Wallner. Convergence of subdivision schemes on Riemannian manifolds with non-positive sectional curvature. *Advances in Computational Mathematics*, 45(3):1689–1709, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09693-x`.

Haasdonk:2026:KBG

[HWS26] Bernard Haasdonk, Tizian Wenzel, and Gabriele Santin. Kernel-based greedy approximation of parametric elliptic boundary value problems. *Advances in Computational Mathematics*, 52 (4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10323-6`.

Huang:2013:AEE

[HWZ13] Jin Huang, Zhu Wang, and Rui Zhu. Asymptotic error expansions for hypersingular integrals. *Advances in Computational Mathematics*, 38(2):257–279, February 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9236-x`.

He:2022:NLF

[HWZ22] Yuyu He, Xiaofeng Wang, and Ruihua Zhong. A new linearized fourth-order conservative compact difference scheme for the SRLW equations. *Advances in Computational Mathematics*, 48 (3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09951-5`.

Hu:2023:DNM

[HWZ23] Shenglong Hu, Yong Wang, and Jinling Zhou. A DCA–Newton method for quartic minimization over the sphere. *Advances in Computational Mathematics*, 49 (4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10040-4`.

Huang:2002:CFE

[HX02] Yunqing Huang and Weimin Xue. Convergence of fi-

nite element approximations and multilevel linearization for Ginzburg–Landau model of d-wave superconductors. *Advances in Computational Mathematics*, 17(4):309–330, November 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016293508648`.

Hou:2017:FSM

[HX17] Dianming Hou and Chuanju Xu. A fractional spectral method with applications to some singular problems. *Advances in Computational Mathematics*, 43(5): 911–944, October 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9511-y`.

Huang:2021:ASV

[HX21] Rong Huang and Jungong Xue. Accurate singular values of a class of parameterized negative matrices. *Advances in Computational Mathematics*, 47(5): ??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09898-z`.

Hu:2010:NMI

[HXC10] Xiaoyi Hu, Xiang Xu, and Wenbin Chen. Numerical method for the inverse heat transfer problem in composite materials with Stefan–Boltzmann conditions. *Advances in Computational Mathematics*, 33(4):471–489, November 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9131-x`.

Hu:2014:NPM

[HY14] Qiya Hu and Long Yuan. A Newton-penalty method for a simplified liquid crystal model. *Advances in Computational Mathematics*, 40(1): 201–244, February 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9305-4`.

Hu:2018:PWM

[HY18] Qiya Hu and Long Yuan. A plane wave method combined with local spectral elements for nonhomogeneous Helmholtz equation and time-harmonic Maxwell equations. *Advances in Computational Mathematics*, 44(1):245–275, February 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9542-z`.

Hou:2021:RRD

[HYHH21] Jiangyong Hou, Wenjing Yan,

Dan Hu, and Zhengkang He. Robin-Robin domain decomposition methods for the dual-porosity-conduit system. *Advances in Computational Mathematics*, 47(1): ??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09828-5`.

Huang:2012:SEA

[HZHL12] Jin Huang, Guang Zeng, Xiaoming He, and Zi-Cai Li. Splitting extrapolation algorithm for first kind boundary integral equations with singularities by mechanical quadrature methods. *Advances in Computational Mathematics*, 36(1): 79–97, January 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9181-8`.

He:2020:LSP

[HZZ20] Wenming He, Zhimin Zhang, and Qingsong Zou. Local superconvergence of post-processed high-order finite volume element solutions. *Advances in Computational Mathematics*, 46(4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09801-2`.

Huang:2024:NLO

[HZZZ24] Xuehai Huang, Chao Zhang, Yaqian Zhou, and Yangxing Zhu. New low-order mixed finite element methods for linear elasticity. *Advances in Computational Mathematics*, 50(2):??, April 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10112-z`.

Iacono:2017:NAP

[IB17] Roberto Iacono and John P. Boyd. New approximations to the principal real-valued branch of the Lambert W-function. *Advances in Computational Mathematics*, 43(6):1403–1436, December 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9530-3`.

Isserstedt:2026:CFQ

[IJH26] Philipp Isserstedt, Daniel Jaroszewski, and Bastian Harrach. Curve fitting on a quantum annealer for an advanced navigation method. *Advances in Computational Mathematics*, 52 (2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10292-w`.

Ivanyshyn:2010:HPI

[IKS10] Olha Ivanyshyn, Rainer Kress, and Pedro Serranho. Huygens' principle and iterative methods in inverse obstacle scattering. *Advances in Computational Mathematics*, 33(4):413–429, November 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9135-6; http://link.springer.com/content/pdf/10.1007/s10444-009-9135-6.pdf`.

Ionescu:2016:MSA

[IL16] Ioan R. Ionescu and Oana Lupaşcu. Modeling shallow avalanche onset over complex basal topography. *Advances in Computational Mathematics*, 42(1):5–26, February 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9407-2`.

Idriss:2022:TSB

[ILHH22] El Mourabit Idriss, Amine Laghrib, Aissam Hadri, and Abdelilah Hakim. A theoretical study of a bilateral term with a tensor-based fourth-order PDE for image super-resolution. *Advances in Computational Mathematics*, 48 (6):??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09996-6`.

Ivanov:1999:BLA

[IMS99] Tjavdar Ivanov, Vladimir Maz'ya, and Gunther Schmidt. Boundary layer approximate approximations and cubature of potentials in domains. *Advances in Computational Mathematics*, 10(3–4):311–342, May 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018990918531`.

Ivanov:2015:FME

[IP15] Kamen Ivanov and Pencho Petrushev. Fast memory efficient evaluation of spherical polynomials at scattered points. *Advances in Computational Mathematics*, 41(1): 191–230, February 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9354-3`.

Izzo:2023:HOC

[IRT23] Federico Izzo, Olof Runborg, and Richard Tsai. High-order corrected trapezoidal rules for a class of singular integrals. *Advances in Computational Mathematics*, 49 (4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL https://link.springer.com/article/10.1007/s10444-023-10060-0.

Ismail:2013:AGD

[IS13] Mourad E. H. Ismail and Plamen Simeonov. Asymptotics of generalized derangements. *Advances in Computational Mathematics*, 39 (1):101–127, July 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9271-7.

Ito:1996:NCL

[Ito96] Yoshifusa Ito. Nonlinearity creates linear independence. *Advances in Computational Mathematics*, 5(1):189–203, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02124743.

Iapichino:2017:MPC

[IUV17] L. Iapichino, S. Ulbrich, and S. Volkwein. Multiobjective PDE-constrained optimization using the reduced-basis method. *Advances in Computational Mathematics*, 43(5): 945–972, October 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9512-x.

Iguchi:2022:WAS

[IY22] Yuga Iguchi and Toshihiro Yamada. Weak approximation of SDEs for tempered distributions and applications. *Advances in Computational Mathematics*, 48 (5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09960-4.

Javanshiri:2022:EIF

[JAA22] Hossein Javanshiri, Mohammad Abolghasemi, and Ali Akbar Arefijamaal. The essence of invertible frame multipliers in scalability. *Advances in Computational Mathematics*, 48(3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09940-8.

Janik:1998:PIV

[Jan98] Tadeusz J. Janik. Parallel implementation of the p-version of the finite element method for elliptic equations on a shared-memory architecture. *Advances in Computational Mathematics*, 8(1–2): 97–110, January 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018936011745.

Jeon:1998:NBE

[Jeo98] Youngmok Jeon. New boundary element formulas for the biharmonic equation. *Advances in Computational Mathematics*, 9(1–2):97–115, September 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018985322648`. Numerical treatment of boundary integral equations.

Juttler:2002:LSF

[JF02] Bert Jüttler and Alf Felis. Least-squares fitting of algebraic spline surfaces. *Advances in Computational Mathematics*, 17(1–2):135–152, July 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1015200504295`. Advances in geometrical algorithms and representations.

Jiang:2015:ESE

[JGW15] Shidong Jiang, Leslie Greengard, and Shaobo Wang. Efficient sum-of-exponentials approximations for the heat kernel and their applications. *Advances in Computational Mathematics*, 41(3):529–551, June 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9372-1`.

Jia:1995:SSS

[Jia95] Rong-Qing Jia. Subdivision schemes in L_p spaces. *Advances in Computational Mathematics*, 3(4):309–341, May 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF03028366`.

Jiang:2000:PCO

[Jia00] Qingtang Jiang. Parameterization of m-channel orthogonal multifilter banks. *Advances in Computational Mathematics*, 12(2–3):189–211, February 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018965102118`.

Jiang:2003:PMT

[Jia03] Qingtang Jiang. Parameterizations of masks for tight affine frames with two symmetric/antisymmetric generators. *Advances in Computational Mathematics*, 18(2–4):247–268, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021339707805`. Frames.

Jia:2009:SWI

[Jia09a] Rong-Qing Jia. Spline wavelets on the interval with homogeneous boundary conditions. *Advances in Computational Mathematics*, 30(2): 177–200, February 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9064-9`.

Jiang:2009:HTF

[Jia09b] Qingtang Jiang. Hexagonal tight frame filter banks with idealized high-pass filters. *Advances in Computational Mathematics*, 31(1–3): 215–236, October 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9085-4`.

Jiang:2011:BWF

[Jia11] Qingtang Jiang. Biorthogonal wavelets with 4-fold axial symmetry for quadrilateral surface multiresolution processing. *Advances in Computational Mathematics*, 34(2): 127–165, February 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9144-5`.

Jang:2013:CSM

[JJK13] Sumi Jang, Byeongseon Jeong, and Hong Oh Kim. Compactly supported multiwindow dual Gabor frames of rational sampling density. *Advances in Computational Mathematics*, 38(1): 159–186, January 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9234-z`.

Jenkins:2014:PCG

[JJLR14] Eleanor W. Jenkins, Volker John, Alexander Linke, and Leo G. Rebholz. On the parameter choice in grad–div stabilization for the Stokes equations. *Advances in Computational Mathematics*, 40 (2):491–516, April 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9316-1`.

John:2008:FEE

[JK08] Volker John and Songul Kaya. Finite element error analysis of a variational multiscale method for the Navier–Stokes equations. *Advances in Computational Mathematics*, 28(1): 43–61, January 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-9010-z`.

Jaklic:2012:AGI

[JKK+12] Gašper Jaklič, Jernej Kozak,

Marjeta Krajnc, Vito Vitrih, and Emil Žagar. An approach to geometric interpolation by Pythagorean-hodograph curves. *Advances in Computational Mathematics*, 37 (1):123–150, July 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9209-0`.

Jeong:2013:EPR

[JKLY13] Byeongseon Jeong, Hong Oh Kim, Yeon Ju Lee, and Jungho Yoon. Exponential polynomial reproducing property of non-stationary symmetric subdivision schemes and normalized exponential B-splines. *Advances in Computational Mathematics*, 38(3):647–666, April 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9253-9`.

Jiang:1997:SPM

[JL97] Qingtang Jiang and S. L. Lee. Spectral properties of matrix continuous refinement operators. *Advances in Computational Mathematics*, 7(3): 383–399, May 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018911306293`.

Jia:2006:WBH

[JL06] Rong-Qing Jia and Song-Tao Liu. Wavelet bases of Hermite cubic splines on the interval. *Advances in Computational Mathematics*, 25(1–3):23–39, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-003-7609-5`.

Jungel:2019:CIE

[JL19] Ansgar Jüngel and Oliver Leingang. Convergence of an implicit Euler Galerkin scheme for Poisson–Maxwell–Stefan systems. *Advances in Computational Mathematics*, 45(3):1469–1498, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09674-0`.

Ji:2020:SMP

[JlLZ20] Bingquan Ji, Hong lin Liao, and Luming Zhang. Simple maximum principle preserving time-stepping methods for time-fractional Allen–Cahn equation. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09782-2`.

Josz:2019:SPI

[JLM19] Cédric Josz, Jean Bernard Lasserre, and Bernard Mourrain. Sparse polynomial interpolation: sparse recovery, super-resolution, or Prony? *Advances in Computational Mathematics*, 45(3): 1401–1437, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09672-2`.

Jiang:2020:NRS

[JLW20] Daijun Jiang, Yikan Liu, and Dongling Wang. Numerical reconstruction of the spatial component in the source term of a time-fractional diffusion equation. *Advances in Computational Mathematics*, 46(3):??, June 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09754-6`.

Jia:2008:AER

[JLZ08] Shanghui Jia, Deli Li, and Shuhua Zhang. Asymptotic expansions and Richardson extrapolation of approximate solutions for integro-differential equations by mixed finite element methods. *Advances in Computational Mathematics*, 29 (4):337–356, November 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9052-5`.

Jodar:2000:SOA

[JM00] Lucas Jódar and Marco Marletta. Solving ODEs arising from non-selfadjoint Hamiltonian eigenproblems. *Advances in Computational Mathematics*, 13(3):231–256, July 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018954227133`.

Jeon:2003:NBE

[JM03] Youngmok Jeon and William McLean. A new boundary element method for the biharmonic equation with Dirichlet boundary conditions. *Advances in Computational Mathematics*, 19(4):339–354, November 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1024206232212`.

Jackiewicz:2000:CRK

[JMO00] Z. Jackiewicz, A. Marthinsen, and B. Owren. Construction of Runge–Kutta methods of Crouch–Grossman type of high order. *Advances in Computational Mathematics*, 13(4):405–415, December 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL http://link.springer.com/article/10.1023/A:1016645730465.

Jung:2018:FSS

[JN18] Chang-Yeol Jung and Thien Binh Nguyen. Fine structures for the solutions of the two-dimensional Riemann problems by high-order WENO schemes. *Advances in Computational Mathematics*, 44 (1):147–174, February 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-017-9538-8.

Johnson:2013:RIS

[Joh13] Michael J. Johnson. The role of inner summaries in the fast evaluation of thin-plate splines. *Advances in Computational Mathematics*, 39(1):1–25, July 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9265-5.

Jones:2017:CUP

[Jon17] Robert Stephen Jones. Computing ultra-precise eigenvalues of the Laplacian within polygons. *Advances in Computational Mathematics*, 43(6):1325–1354, December 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-017-9527-y.

Jaming:2023:UPR

[JR23] Philippe Jaming and Martin Rathmair. Uniqueness of phase retrieval from three measurements. *Advances in Computational Mathematics*, 49(4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10045-z.

Junior:2015:OIF

[JRS15] D. S. Almeida Júnior, A. J. A. Ramos, and M. L. Santos. Observability inequality for the finite-difference semi-discretization of the 1-d coupled wave equations. *Advances in Computational Mathematics*, 41(1):105–130, February 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-014-9351-6.

Jetter:1995:GBS

[JS95] K. Jetter and J. Stöckler. A generalization of de Boor's stability result and symmetric preconditioning. *Advances in Computational Mathematics*, 3(4):353–367, May 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF03028368.

Ji:1999:CSB

[JS99] Hui Ji and Zuowei Shen. Compactly supported (bi)orthogonal wavelets generated by interpolatory refinable functions. *Advances in Computational Mathematics*, 11 (1):81–104, July 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018999220348`.

Jeon:2005:ACB

[JS05] Youngmok Jeon and Dongwoo Sheen. Analysis of a cell boundary element method. *Advances in Computational Mathematics*, 22 (3):201–222, April 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-003-7671-z`.

Jang:2021:PEA

[JS21] Yongseok Jang and Simon Shaw. A priori error analysis for a finite element approximation of dynamic viscoelasticity problems involving a fractional order integro-differential constitutive law. *Advances in Computational Mathematics*, 47 (3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09857-8`.

Jeon:1997:DQM

[JSSE97] Y. Jeon, I. H. Sloan, E. P. Stephan, and J. Elschner. Discrete qualocation methods for logarithmic-kernel integral equations on a piecewise smooth boundary. *Advances in Computational Mathematics*, 7(4):547–571, August 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018967424040`.

Jiang:2020:LIS

[JSW20] Chaolong Jiang, Yongzhong Song, and Yushun Wang. A linearly implicit structure-preserving Fourier pseudo-spectral scheme for the damped nonlinear Schrödinger equation in three dimensions. *Advances in Computational Mathematics*, 46 (2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09781-3`.

Juttler:1998:DBF

[Jüt98] Bert Jüttler. The dual basis functions for the Bernstein polynomials. *Advances in Computational Mathematics*, 8(4):345–352, June 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.`

springer.com/article/10.1023/A:1018912801267.

Jones:1995:ZFR

[JW95] John W. Jones and Bruno D. Welfert. Zero-free regions for a rational function with applications. *Advances in Computational Mathematics*, 3(3): 265–289, January 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02988626.

Jiang:2023:SRK

[JWJ23] Yutong Jiang, Gang Wu, and Long Jiang. A semi-randomized Kaczmarz method with simple random sampling for large-scale linear systems. *Advances in Computational Mathematics*, 49 (2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10018-2.

Jiang:2022:NIT

[JY22] Nan Jiang and Huanhuan Yang. Numerical investigation of two second-order, stabilized SAV ensemble methods for the Navier–Stokes equations. *Advances in Computational Mathematics*, 48 (5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09977-9.

Jetter:2004:PRS

[JZ04] K. Jetter and G. Zimmermann. Polynomial reproduction in subdivision. *Advances in Computational Mathematics*, 20(1–3):67–86, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1025859224071. Approximation and applications.

Jia:2010:FAT

[JZ10] Rong-Qing Jia and Hanqing Zhao. A fast algorithm for the total variation model of image denoising. *Advances in Computational Mathematics*, 33(2): 231–241, August 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-009-9128-5.

Ji:2024:ATS

[JZ24] Bingquan Ji and Xuanxuan Zhou. An adaptive time-stepping Fourier pseudo-spectral method for the Zakharov–rubenchik equation. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.

springer.com/article/10.1007/s10444-024-10155-2.

Konstantinov:1997:SAD

[KA97] Mihail Konstantinov and Vera Angelova. Sensitivity analysis of the differential matrix Riccati equation based on the associated linear differential system. *Advances in Computational Mathematics*, 7(3): 295–301, May 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018903104476.

Kacewicz:2018:AMS

[Kac18] Bolesław Kacewicz. Adaptive mesh selection asymptotically guarantees a prescribed local error for systems of initial value problems. *Advances in Computational Mathematics*, 44(5):1325–1344, October 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-017-9584-2.

Kosinka:2015:CWC

[KB15] Jiří Kosinka and Michael Bartoň. Convergence of Wachspress coordinates: from polygons to curved domains. *Advances in Computational Mathematics*, 41(3): 489–505, June 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-014-9370-3.

Karjoun:2022:SPA

[KBL22] Hasan Karjoun, Abdelaziz Beljadid, and Philippe G. LeFloch. A structure-preserving algorithm for surface water flows with transport processes. *Advances in Computational Mathematics*, 48(1):??, February 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09918-y.

Kublik:2016:LAT

[KC16] Richard A. Kublik and David L. Chopp. A locally adaptive time stepping algorithm for the solution to reaction diffusion equations on branched structures. *Advances in Computational Mathematics*, 42(3): 621–649, June 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-015-9437-9.

Kohl:2023:FAS

[KCCV23] Ryan Kohl, Eduardo Corona, Vani Cheruvu, and Shravan Veerapaneni. Fast and accurate solvers for simulating Janus particle suspensions in Stokes flow. *Advances in Computational Mathematics*,

49(4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10046-y.

Kordy:2017:NSC

[KCW17] Michal Kordy, Elena Cherkaev, and Philip Wannamaker. Null space correction and adaptive model order reduction in multi-frequency Maxwell's problem. *Advances in Computational Mathematics*, 43(1):171–193, February 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9482-z.

Keinert:1995:NSB

[Kei95] Fritz Keinert. Numerical stability of biorthogonal wavelet transforms. *Advances in Computational Mathematics*, 4(1–2):1–26, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02123471.

Krah:2022:WAP

[KESR22] Philipp Krah, Thomas Engels, Kai Schneider, and Julius Reiss. Wavelet adaptive proper orthogonal decomposition for large-scale flow data. *Advances in Computational Mathematics*, 48 (2):??, April 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09922-2.

Krivodonova:2003:EED

[KF03] Lilia Krivodonova and Joseph E. Flaherty. Error estimation for discontinuous Galerkin solutions of two-dimensional hyperbolic problems. *Advances in Computational Mathematics*, 19(1–3):57–71, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1022894504834. Challenges in computational mathematics (Pohang, 2001).

Kunc:2019:GEM

[KF19] Oliver Kunc and Felix Fritzen. Generation of energy-minimizing point sets on spheres and their application in mesh-free interpolation and differentiation. *Advances in Computational Mathematics*, 45(5–6):3021–3056, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09726-5.

Keck:2005:PTI

[KH05] R. Keck and D. Hietel. A projection technique for incom-

pressible flow in the meshless finite volume particle method. *Advances in Computational Mathematics*, 23(1–2):143–169, July 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1831-7`.

Khleborodov:2018:FEC

[Khl18] Denis Khleborodov. Fast elliptic curve point multiplication based on binary and binary non-adjacent scalar form methods. *Advances in Computational Mathematics*, 44(4):1275–1293, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9581-5`.

Kriva:2016:ACC

[KHM16] Zuzana Krivá, Angela Handlovičová, and Karol Mikula. Adaptive cell-centered finite volume method for diffusion equations on a consistent quadtree grid. *Advances in Computational Mathematics*, 42(2):249–277, April 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9423-2`.

Kim:2006:GDA

[Kim06] M.-Y. Y. Kim. Global dynamics of approximate solutions to an age-structured epidemic model with diffusion. *Advances in Computational Mathematics*, 25(4):451–474, November 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7639-7`.

Kirkup:1998:FCC

[Kir98] S. M. Kirkup. Fortran codes for computing the discrete Helmholtz integral operators. *Advances in Computational Mathematics*, 9(3–4):391–409, November 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018953910353`.

Kosinka:2009:HIP

[KJ09] Jiří Kosinka and Bert Jüttler. C^1 Hermite interpolation by Pythagorean hodograph quintics in Minkowski space. *Advances in Computational Mathematics*, 30(2):123–140, February 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9059-y`.

Koras:1999:CCP

[KK99] G. D. Koras and P. D. Kaklis. Convexity conditions for parametric tensor-product B-spline surfaces.

Advances in Computational Mathematics, 10(3–4):291–309, May 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018938901692`.

Kuchment:2002:DOG

[KK02] P. Kuchment and L. Kunyansky. Differential operators on graphs and photonic crystals. *Advances in Computational Mathematics*, 16(2–3):263–290, April 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014481629504`. Modeling and computation in optics and electromagnetics.

Karni:2005:LEA

[KK05] Smadar Karni and Alexander Kurganov. Local error analysis for approximate solutions of hyperbolic conservation laws. *Advances in Computational Mathematics*, 22(1):79–99, January 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-7099-8`.

Kuehn:2020:CEE

[KK20] Christian Kuehn and Patrick Kürschner. Combined error estimates for local fluctuations of SPDEs. *Advances in Computational Mathematics*, 46(1):??, February 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09766-2`.

Kuehn:2026:AGS

[KK26] Christian Kuehn and Sara-Viola Kuntz. Analysis of the geometric structure of neural networks and neural ODEs via Morse functions. *Advances in Computational Mathematics*, 52(1):??, February 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10273-5`.

Koellermeier:2024:MMD

[KKK24] Julian Koellermeier, Philipp Krah, and Jonas Kusch. Macro-micro decomposition for consistent and conservative model order reduction of hyperbolic shallow water moment equations: a study using POD–Galerkin and dynamical low-rank approximation. *Advances in Computational Mathematics*, 50(4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10175-y`.

Kim:2003:QBF

[KKL03] Hong Oh Kim, Rae Young

Kim, and Jae Kun Lim. Quasi-biorthogonal frame multiresolution analyses and wavelets. *Advances in Computational Mathematics*, 18(2–4):269–296, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021371227388`. Frames.

Keil:2022:AML

[KKL+22] Tim Keil, Hendrik Kleikamp, Rolf J. Lorentzen, Micheal B. Oguntola, and Mario Ohlberger. Adaptive machine learning-based surrogate modeling to accelerate PDE-constrained optimization in enhanced oil recovery. *Advances in Computational Mathematics*, 48 (6):??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09981-z`.

Kim:2010:QIR

[KKLY10] Hong Oh Kim, Rae Young Kim, Yeon Ju Lee, and Jungho Yoon. Quasi-interpolatory refinable functions and construction of biorthogonal wavelet systems. *Advances in Computational Mathematics*, 33(3): 255–283, October 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9129-4`.

Kevlahan:2019:CDA

[KKP19] N. K.-R. Kevlahan, R. Khan, and B. Protas. On the convergence of data assimilation for the one-dimensional shallow water equations with sparse observations. *Advances in Computational Mathematics*, 45(5–6):3195–3216, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09733-6`.

Karner:2024:LNN

[KKP24] Clemens Karner, Vladimir Kazeev, and Philipp Christian Petersen. Limitations of neural network training due to numerical instability of backpropagation. *Advances in Computational Mathematics*, 50(1): ??, February 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10106-x`.

Kozak:2015:PCP

[KKV15] Jernej Kozak, Marjeta Krajnc, and Vito Vitrih. Parametric curves with Pythagorean binormal. *Advances in Computational Mathematics*, 41 (4):813–832, August 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044

(electronic). URL http://link.springer.com/article/10.1007/s10444-014-9387-7.

Kim:2000:MMF

[KL00] Yongdeok Kim and Sungyun Lee. Modified Mini finite element for the Stokes problem in $\mathbf{R}^2$ or $\mathbf{R}^3$. *Advances in Computational Mathematics*, 12(2–3):261–272, February 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018973303935.

Konovalov:2004:FKS

[KL04] V. N. Konovalov and D. Leviatan. Free-knot splines approximation of s-monotone functions. *Advances in Computational Mathematics*, 20 (4):347–366, May 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1027324000817.

Konovalov:2007:FSA

[KL07] V. N. Konovalov and D. Leviatan. Freeknot splines approximation of Sobolev-type classes of s-monotone functions. *Advances in Computational Mathematics*, 27(2): 211–236, August 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-007-9032-9.

Kruschel:2015:CAR

[KL15] Christian Kruschel and Dirk A. Lorenz. Computing and analyzing recoverable supports for sparse reconstruction. *Advances in Computational Mathematics*, 41(6):1555–1580, December 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-015-9403-6.

Kosmas:2016:AHO

[KL16] Odysseas Kosmas and Sigrid Leyendecker. Analysis of higher order phase fitted variational integrators. *Advances in Computational Mathematics*, 42(3):605–619, June 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-015-9436-x.

Kopteva:2017:IMN

[KL17] Natalia Kopteva and Torsten Linß. Improved maximum-norm a posteriori error estimates for linear and semilinear parabolic equations. *Advances in Computational Mathematics*, 43(5): 999–1022, October 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.

springer.com/article/10.1007/s10444-017-9514-3.

Kosmas:2019:VIO

[KL19] Odysseas Kosmas and Sigrid Leyendecker. Variational integrators for orbital problems using frequency estimation. *Advances in Computational Mathematics*, 45(1): 1–21, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9603-y.

Kim:2022:NID

[KL22] Yunho Kim and Dongsun Lee. Numerical investigation into the dependence of the Allen–Cahn equation on the free energy. *Advances in Computational Mathematics*, 48(3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09955-1.

Kotiuga:2024:EEP

[KL24] P. Robert Kotiuga and Valtteri Lahtinen. An electrical engineering perspective on naturality in computational physics. *Advances in Computational Mathematics*, 50 (5):??, October 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10197-6.

Kleefeld:2021:HSC

[Kle21] Andreas Kleefeld. The hot spots conjecture can be false: some numerical examples. *Advances in Computational Mathematics*, 47(6): ??, December 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09911-5.

Koch:1995:CCK

[KLNS95] Per Erik Koch, Tom Lyche, Marian Neamtu, and Larry L. Schumaker. Control curves and knot insertion for trigonometric splines. *Advances in Computational Mathematics*, 3(4): 405–424, May 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF03028369.

Knobloch:2019:EIO

[KLS19] Petr Knobloch, Petr Lukáš, and Pavel Solin. On error indicators for optimizing parameters in stabilized methods. *Advances in Computational Mathematics*, 45(4): 1853–1862, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09662-4.

Kang:2026:SDE

[KLY26] Yuanyuan Kang, Dongqian Li, and Yin Yang. A straightforward discrete energy technique for weighted and shifted backward differentiation formulas up to fifth order. *Advances in Computational Mathematics*, 52 (4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10325-4`.

Karkulik:2019:MHM

[KM19] Michael Karkulik and Jens Markus Melenk. $\mathcal{H}$-matrix approximability of inverses of discretizations of the fractional Laplacian. *Advances in Computational Mathematics*, 45(5–6):2893–2919, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09718-5`.

Koc:2019:CER

[KMMI19] Birgul Koc, Muhammad Mohebujjaman, Changhong Mou, and Traian Iliescu. Commutation error in reduced order modeling of fluid flows. *Advances in Computational Mathematics*, 45(5–6):2587–2621, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09739-0`.

Kobarg:2014:NEM

[KMO+14] Jan Hendrik Kobarg, Peter Maass, Janina Oetjen, Oren Tropp, Eyal Hirsch, Chen Sagiv, Mohammad Golbabaee, and Pierre Vandergheynst. Numerical experiments with MALDI Imaging data. *Advances in Computational Mathematics*, 40(3): 667–682, June 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9325-0`.

Kapidani:2024:AOS

[KMSV24] Bernard Kapidani, Melina Merkel, Sebastian Schöps, and Rafael Vázquez. Arbitrary order spline representation of cohomology generators for isogeometric analysis of eddy current problems. *Advances in Computational Mathematics*, 50 (5):??, October 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10181-0`.

Kropinski:2014:FIE

[KN14] Mary Catherine A. Kropinski and Nilima Nigam. Fast integral equation methods for the Laplace–Beltrami equation on the sphere. *Advances in*

Computational Mathematics, 40(2):577–596, April 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9319-y`.

Knibbeler:2024:CEM

[Kni24] Vincent Knibbeler. Computing equivariant matrices on homogeneous spaces for geometric deep learning and automorphic Lie algebras. *Advances in Computational Mathematics*, 50 (2):??, April 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10126-7`.

Knobloch:2009:CSP

[Kno09] Petr Knobloch. On the choice of the SUPG parameter at outflow boundary layers. *Advances in Computational Mathematics*, 31(4):369–389, November 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9075-6`.

Kaneko:1998:SPG

[KNP98] Hideaki Kaneko, Richard D. Noren, and Peter A. Padilla. Singularity preserving Galerkin method for Hammerstein equations with logarithmic kernel. *Advances in Computational Mathematics*, 9(3–4):363–376, November 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018910128100`.

Kropinski:2016:IEM

[KNQ16] M. C. Kropinski, N. Nigam, and B. Quaife. Integral equation methods for the Yukawa–Beltrami equation on the sphere. *Advances in Computational Mathematics*, 42(2): 469–488, April 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9431-2`.

Krizek:2001:PEE

[KNV01] Michal Křížek, Jan Němec, and Tomáš Vejchodský. *A posteriori* error estimates for axisymmetric and nonlinear problems. *Advances in Computational Mathematics*, 15(1–4):219–236, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014234911830`. *A posteriori* error estimation and adaptive computational methods.

Kalmoun:2023:NCP

[KNV23] El Mostafa Kalmoun, Mohamed M. S. Nasser, and

Matti Vuorinen. Numerical computation of a preimage domain for an infinite strip with rectilinear slits. *Advances in Computational Mathematics*, 49(1): ??, February 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-10006-y`.

Klein:2026:MFL

[KO26] Benedikt Klein and Mario Ohlberger. Multi-fidelity learning of reduced order models for parabolic PDE constrained optimization. *Advances in Computational Mathematics*, 52 (2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10296-6`.

Kazeev:2017:QFE

[KORS17] Vladimir Kazeev, Ivan Oseledets, Maxim Rakhuba, and Christoph Schwab. QTT-finite-element approximation for multiscale problems I: model problems in one dimension. *Advances in Computational Mathematics*, 43 (2):411–442, April 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9491-y`.

Kostic:2015:GPE

[Kos15] Vladimir Kostić. On general principles of eigenvalue localizations via diagonal dominance. *Advances in Computational Mathematics*, 41(1): 55–75, February 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9349-0`.

Kotnik:2008:PCF

[Kot08] Tadej Kotnik. The prime-counting function and its analytic approximations: $\pi(x)$ and its approximations. *Advances in Computational Mathematics*, 29(1):55–70, July 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9039-2`.

Khoromskij:1995:MPR

[KP95] Boris N. Khoromskij and Siegfried Prössdorf. Multilevel preconditioning on the refined interface and optimal boundary solvers for the Laplace equation. *Advances in Computational Mathematics*, 4(1–2):331–355, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02123480`.

Khoromskij:1998:FCH

[KP98] Boris N. Khoromskij and Siegfried Prössdorf. Fast computations with the harmonic Poincaré–Steklov operators on nested refined meshes. *Advances in Computational Mathematics*, 8(1–2): 111–135, January 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018988028583`.

Kouibia:2004:ASF

[KP04] A. Kouibia and M. Pasadas. Approximation of surfaces by fairness bicubic splines. *Advances in Computational Mathematics*, 20(1–3):87–103, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1025805701726`. Approximation and applications.

Kundu:2018:FEA

[KP18] Sudeep Kundu and Amiya Kumar Pani. Finite element approximation to global stabilization of the Burgers' equation by Neumann boundary feedback control law. *Advances in Computational Mathematics*, 44(2): 541–570, April 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9553-9`.

Krishnan:2009:PDA

[KPY09] D. Krishnan, Quang Vinh Pham, and Andy M. Yip. A primal-dual active-set algorithm for bilaterally constrained total variation deblurring and piecewise constant Mumford–Shah segmentation problems. *Advances in Computational Mathematics*, 31(1–3):237–266, October 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9101-8`.

Kunsch:2019:OCM

[KR19] Robert J. Kunsch and Daniel Rudolf. Optimal confidence for Monte Carlo integration of smooth functions. *Advances in Computational Mathematics*, 45(5–6):3095–3122, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09728-3`.

Krasauskas:2002:TSP

[Kra02] Rimvydas Krasauskas. Toric surface patches. *Advances in Computational Mathematics*, 17(1–2):89–113, July 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/`

10.1023/A:1015289823859. Advances in geometrical algorithms and representations.

Keslerova:2019:NMG

[KRP19] Radka Keslerová, Hynek Reznícek, and Tomás Padelek. Numerical modelling of generalized Newtonian fluids in bypass tube. *Advances in Computational Mathematics*, 45(4):2047–2063, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09684-y.

Kopteva:2017:ANS

[KS17] Natalia Kopteva and Martin Stynes. Analysis and numerical solution of a Riemann–Liouville fractional derivative two-point boundary value problem. *Advances in Computational Mathematics*, 43(1):77–99, February 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9476-x.

Kashefi:2018:FEC

[KS18] Ali Kashefi and Anne E. Staples. A finite-element coarse-grid projection method for incompressible flow simulations. *Advances in Computational Mathematics*, 44(4):1063–1090, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-017-9573-5.

Karvonen:2020:WCO

[KS20] Toni Karvonen and Simo Särkkä. Worst-case optimal approximation with increasingly flat Gaussian kernels. *Advances in Computational Mathematics*, 46 (2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09767-1.

Kaye:2023:FTD

[KS23] Jason Kaye and Hugo U. R. Strand. A fast time domain solver for the equilibrium Dyson equation. *Advances in Computational Mathematics*, 49(4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10067-7.

Kapl:2021:FQF

[KST21] Mario Kapl, Giancarlo Sangalli, and Thomas Takacs. A family of C^1 quadrilateral finite elements. *Advances in Computational Mathematics*, 47(6):??, December 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.

springer.com/article/10.1007/s10444-021-09878-3.

Krieg:2023:ETA

[KSUW23] David Krieg, Paweł Siedlecki, Mario Ullrich, and Henryk Woźniakowski. Exponential tractability of L_2-approximation with function values. *Advances in Computational Mathematics*, 49 (2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10021-7.

Kong:2024:EAA

[KSWX24] Desong Kong, Jie Shen, Li-Lian Wang, and Shuhuang Xiang. Eigenvalue analysis and applications of the Legendre dual-Petrov–Galerkin methods for initial value problems. *Advances in Computational Mathematics*, 50 (5):??, October 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10190-z.

Karasozen:2018:EPM

[KU18] Bülent Karasözen and Murat Uzunca. Energy preserving model order reduction of the nonlinear Schrödinger equation. *Advances in Computational Mathematics*, 44(6):1769–1796, December 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9593-9.

Kumar:2023:SAS

[Kum23] Naresh Kumar. Superconvergence analysis of a stabilizer-free weak Galerkin finite element method for viscoelastic wave equations with variable coefficients. *Advances in Computational Mathematics*, 49(2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10010-w.

Kunoth:1995:MPA

[Kun95] Angela Kunoth. Multilevel preconditioning — appending boundary conditions by Lagrange multipliers. *Advances in Computational Mathematics*, 4(1–2):145–170, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02123477.

Kunert:2001:RPE

[Kun01] Gerd Kunert. Robust *a posteriori* error estimation for a singularly perturbed reaction–diffusion equation on anisotropic tetrahedral meshes. *Advances in Computational Mathematics*, 15(1–4):237–259,

November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014248711347`. *A posteriori* error estimation and adaptive computational methods.

Kunis:2009:NSR

[Kun09] Stefan Kunis. A note on stability results for scattered data interpolation on Euclidean spheres. *Advances in Computational Mathematics*, 30(4):303–314, May 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9069-4`.

Kurschner:2018:BTM

[Kür18] Patrick Kürschner. Balanced truncation model order reduction in limited time intervals for large systems. *Advances in Computational Mathematics*, 44(6):1821–1844, December 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9608-6`.

Kapl:2021:SIS

[KV21] Mario Kapl and Vito Vitrih. C^s-smooth isogeometric spline spaces over planar bilinear multi-patch parameterizations. *Advances in Computational Mathematics*, 47(3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09868-5`.

Kvasov:2014:MCI

[Kva14] Boris I. Kvasov. Monotone and convex interpolation by weighted quadratic splines. *Advances in Computational Mathematics*, 40(1):91–116, February 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9300-9`.

Kuijt:2001:LAS

[KvD01] Frans Kuijt and Ruud van Damme. A linear approach to shape preserving spline approximation. *Advances in Computational Mathematics*, 14(1):25–48, January 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016660513725`.

Koren:1995:APM

[KvL95] B. Koren and B. van Leer. Analysis of preconditioning and multigrid for Euler flows with low-subsonic regions. *Advances in Computational Mathematics*, 4(1–2):127–144, December 1995. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02123476`.

Kang:2024:FNI

[KXL24] Hongchao Kang, Qi Xu, and Guidong Liu. Fast numerical integration of highly oscillatory Bessel transforms with a Cauchy type singular point and exotic oscillators. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10134-7`.

Kim:2004:UCM

[KXZ04] Hwanho Kim, Jinchao Xu, and Ludmil Zikatanov. Uniformly convergent multigrid methods for convection–diffusion problems without any constraint on coarse grids. *Advances in Computational Mathematics*, 20(4): 385–399, May 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1027378015262`.

Kang:2001:SPE

[KY01] Tong Kang and Dehao Yu. Some a posteriori error estimates of the finite-difference streamline–diffusion method for convection-dominated diffusion equations. *Advances in Computational Mathematics*, 15(1–4):193–218, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014294002686`. *A posteriori* error estimation and adaptive computational methods.

Levie:2022:RCF

[LA22] Ron Levie and Haim Avron. Randomized continuous frames in time-frequency analysis. *Advances in Computational Mathematics*, 48(3): ??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09941-7`.

Lamerand:2024:IPD

[LAG+24] Louis Lamérand, Didier Auroux, Philippe Ghendrih, Francesca Rapetti, and Eric Serre. Inverse problem for determining free parameters of a reduced turbulent transport model for tokamak plasma. *Advances in Computational Mathematics*, 50(3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10135-6`.

Lai:2006:CMC

[Lai06] Ming-Jun Lai. Construc-

tion of multivariate compactly supported orthonormal wavelets. *Advances in Computational Mathematics*, 25(1–3):41–56, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7643-y`.

Lara:2018:NRS

[Lar18] F. Lara. A note on "Regularizers for structured sparsity". *Advances in Computational Mathematics*, 44(4):1321–1323, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9583-3`.

Lasserre:2016:LDA

[Las16] Jean B. Lasserre. Lebesgue decomposition in action via semidefinite relaxations. *Advances in Computational Mathematics*, 42(5):1129–1148, October 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9456-1`.

Liu:1993:EBF

[LB93] W. B. Liu and John W. Barrett. Error bounds for the finite element approximation of a degenerate quasilinear parabolic variational inequality. *Advances in Computational Mathematics*, 1(2):223–239, June 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02071387`.

Lu:2018:SCM

[LBCZ18] Hong Lu, Peter W. Bates, Wenping Chen, and Mingji Zhang. The spectral collocation method for efficiently solving PDEs with fractional Laplacian. *Advances in Computational Mathematics*, 44(3):861–878, June 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9564-6`.

Long:2025:ROM

[LBI25] Tobias Long, Robert Barnett, and Matteo Icardi. A reduced-order model for advection-dominated problems based on the Radon Cumulative Distribution Transform. *Advances in Computational Mathematics*, 51(1):??, February 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10209-5`.

Li:2009:NSF

[LC09] Jian Li and Zhangxin Chen. A new stabilized finite volume method for the sta-

tionary Stokes equations. *Advances in Computational Mathematics*, 30(2):141–152, February 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9060-5`.

Li:2013:SDS

[LC13] Jian Li and Zhangxin Chen. On the semi-discrete stabilized finite volume method for the transient Navier–Stokes equations. *Advances in Computational Mathematics*, 38(2):281–320, February 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9237-9`.

Leng:2018:CQO

[LC18] Haitao Leng and Yanping Chen. Convergence and quasi-optimality of an adaptive finite element method for optimal control problems with integral control constraint. *Advances in Computational Mathematics*, 44(2):367–394, April 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9546-8`.

Liu:2019:NVE

[LC19] Xin Liu and Zhangxin Chen. The nonconforming virtual element method for the Navier–Stokes equations. *Advances in Computational Mathematics*, 45(1):51–74, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9602-z`.

Leng:2020:AHD

[LC20] Haitao Leng and Yanping Chen. Adaptive hybridizable discontinuous Galerkin methods for nonstationary convection diffusion problems. *Advances in Computational Mathematics*, 46(4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09795-x`.

Leng:2021:RTP

[LC21] Haitao Leng and Yanping Chen. Residual-type a posteriori error analysis of HDG methods for Neumann boundary control problems. *Advances in Computational Mathematics*, 47(3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09864-9`.

Li:2019:DAF

[LCC19] Jichun Li, Meng Chen, and Min Chen. Developing and

analyzing fourth-order difference methods for the metamaterial Maxwell's equations. *Advances in Computational Mathematics*, 45(1): 213–241, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9614-8`.

Lipovetsky:2007:EAC

[LD07] Evgeny Lipovetsky and Nira Dyn. An efficient algorithm for the computation of the metric average of two intersecting convex polygons, with application to morphing. *Advances in Computational Mathematics*, 26(1–3): 269–282, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-7473-6`.

Li:2016:HOS

[LD16] Can Li and Weihua Deng. High order schemes for the tempered fractional diffusion equations. *Advances in Computational Mathematics*, 42 (3):543–572, June 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9434-z`.

Lai:2022:FSE

[LD22] J. Lai and H. Dong. A fast solver for elastic scattering from axisymmetric objects by boundary integral equations. *Advances in Computational Mathematics*, 48 (3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09935-5`.

LeMehaute:2000:SAM

[Le 00] A. Le Méhauté. On some aspects of multivariate polynomial interpolation. *Advances in Computational Mathematics*, 12(4): 311–333, March 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018985606661`. Multivariate polynomial interpolation.

LeGia:2005:APP

[Le 05] Q. T. Le Gia. Approximation of parabolic PDEs on spheres using spherical basis functions. *Advances in Computational Mathematics*, 22 (4):377–397, May 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-003-3960-9`.

Ledford:2015:CRF

[Led15] Jeff Ledford. On the convergence of regular families of cardinal interpolators. *Advances in Compu-*

tational Mathematics, 41(2): 357–371, April 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9361-4`.

Lee:2003:ACM

[Lee03] Hyung-Chun Lee. Analysis and computational methods of Dirichlet boundary optimal control problems for 2D Boussinesq equations. *Advances in Computational Mathematics*, 19(1–3):255–275, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1022872602498`. Challenges in computational mathematics (Pohang, 2001).

Lee:2016:TUA

[Lee16] Jeonghun J. Lee. Towards a unified analysis of mixed methods for elasticity with weakly symmetric stress. *Advances in Computational Mathematics*, 42(2): 361–376, April 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9427-y`.

Leeb:2021:RES

[Lee21] William Leeb. Rapid evaluation of the spectral signal detection threshold and Stieltjes transform. *Advances in Computational Mathematics*, 47(4):??, August 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09890-7`.

Lemvig:2009:CPD

[Lem09] Jakob Lemvig. Constructing pairs of dual bandlimited framelets with desired time localization. *Advances in Computational Mathematics*, 30(3):231–247, April 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9066-7`.

Lenze:1994:LGS

[Len94] Burkhard Lenze. On local and global sigma–pi neural networks. A common link. *Advances in Computational Mathematics*, 2(4):479–491, September 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02521610`.

Lenze:1996:HSP

[Len96] Burkhard Lenze. Hyperbolic sigma–pi neural network operators for compactly supported continuous functions. *Advances in Computational Mathematics*, 5(1):163–172, December 1996. CODEN

ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124741`.

Leopoldseder:2002:CSS

[Leo02] Stefan Leopoldseder. Cone spline surfaces and spatial arc splines — a sphere geometric approach. *Advances in Computational Mathematics*, 17 (1–2):49–66, July 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1015215802130`. Advances in geometrical algorithms and representations.

Leopardi:2013:DSR

[Leo13] Paul Leopardi. Discrepancy, separation and Riesz energy of finite point sets on the unit sphere. *Advances in Computational Mathematics*, 39 (1):27–43, July 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9266-4`.

Lepe:2023:IPD

[Lep23] Felipe Lepe. Interior penalty discontinuous Galerkin methods for the velocity-pressure formulation of the Stokes spectral problem. *Advances in Computational Mathematics*, 49(4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10062-y`.

Levin:1999:ULP

[Lev99] David Levin. Using Laurent polynomial representation for the analysis of non-uniform binary subdivision schemes. *Advances in Computational Mathematics*, 11 (1):41–54, July 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018907522165`.

Li:2022:NLP

[LFL22] Yang Li, Minfu Feng, and Yan Luo. A new local projection stabilization virtual element method for the Oseen problem on polygonal meshes. *Advances in Computational Mathematics*, 48 (3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09952-4`.

Li:2013:CCN

[LG13] J. Li and O. Gonzalez. Convergence and conditioning of a Nyström method for Stokes flow in exterior three-dimensional domains. *Advances in Computational Mathematics*, 39

(1):143–174, July 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9272-1`.

Liu:2026:SSD

[LG26] Jiankang Liu and Bao-Zhu Guo. Spatially semi-discretely uniformly exponential stability approximation for one-dimensional thermoelastic system. *Advances in Computational Mathematics*, 52(2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10298-4`.

Li:2020:DFV

[LGC+20] Rui Li, Yali Gao, Jie Chen, Li Zhang, Xiaoming He, and Zhangxin Chen. Discontinuous finite volume element method for a coupled Navier–Stokes–Cahn–Hilliard phase field model. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09764-4`.

Liu:2022:UOE

[LGN22] Ying Liu, Zhen Guan, and Yufeng Nie. Unconditionally optimal error estimates of a linearized weak Galerkin finite element method for semilinear parabolic equations. *Advances in Computational Mathematics*, 48 (4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09961-3`.

Li:2024:ERP

[LGQ24] Jian Li, Jiawei Gao, and Yi Qin. An efficient rotational pressure-correction schemes for 2D/3D closed-loop geothermal system. *Advances in Computational Mathematics*, 50(3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10154-3`.

Leng:2013:OPD

[LH13] Jinsong Leng and Deguang Han. Orthogonal projection decomposition of matrices and construction of fusion frames. *Advances in Computational Mathematics*, 38(2): 369–381, February 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9241-0`.

Liu:2023:SOS

[LHH23] Shuaijun Liu, Pengzhan Huang, and Yinnian He. A second-order scheme based on blended BDF for the

incompressible MHD system. *Advances in Computational Mathematics*, 49 (5):??, October 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10073-9`.

Liu:2008:NOD

[LHY08] Yang Liu, Qiya Hu, and Dehao Yu. A non-overlapping domain decomposition for low-frequency time-harmonic Maxwell's equations in unbounded domains. *Advances in Computational Mathematics*, 28(4):355–382, May 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9027-6`.

Li:1994:HOB

[Li94] Xin Li. Hankel operators and best Hankel approximation on the half-plane. *Advances in Computational Mathematics*, 2(3): 343–355, April 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02521115`.

Li:2003:IMC

[Li03] Yuesheng Li. The inversion of multiscale convolution approximation and average of distributions. *Advances in Computational Mathematics*, 19(1–3):293–306, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1022811005225`. Challenges in computational mathematics (Pohang, 2001).

Li:2004:CSM

[Li04] Song Li. Characterization of smoothness of multivariate refinable functions and convergence of cascade algorithms of nonhomogeneous refinement equations. *Advances in Computational Mathematics*, 20(4): 311–331, May 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1027373528712`.

Li:2005:MMF

[Li05a] Jichun Li. Mixed methods for fourth-order elliptic and parabolic problems using radial basis functions. *Advances in Computational Mathematics*, 23(1–2):21–30, July 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1807-7`.

Li:2005:CMF

[Li05b] Xin Li. On convergence of the method of fundamental solu-

tions for solving the Dirichlet problem of Poisson's equation. *Advances in Computational Mathematics*, 23(3): 265–277, October 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1782-z`.

Li:2008:CMF

[Li08a] Xin Li. Convergence of the method of fundamental solutions for Poisson's equation on the unit sphere. *Advances in Computational Mathematics*, 28(3): 269–282, April 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-006-9022-3`.

Li:2008:RCM

[Li08b] Xin Li. Rate of convergence of the method of fundamental solutions and hyperinterpolation for modified Helmholtz equations on the unit ball. *Advances in Computational Mathematics*, 29(4):393–413, November 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9056-1`.

Li:2009:API

[Li09] Xin Li. Approximation of potential integral by radial bases for solutions of Helmholtz equation. *Advances in Computational Mathematics*, 30(3):201–230, April 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9065-8`.

Li:2010:RBAa

[Li10a] Xin Li. Radial basis approximation and its application to biharmonic equation. *Advances in Computational Mathematics*, 32(3): 275–302, April 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9107-2`.

Li:2010:RBAb

[Li10b] Xin Li. Radial basis approximation for Newtonian potentials. *Advances in Computational Mathematics*, 33 (1):1–24, July 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9117-8`.

Li:2025:UEB

[Li25] Jiyong Li. Uniform error bounds of a nested Picard iterative integrator for the Klein–Gordon–Zakharov system in the subsonic limit regime. *Advances in Computational Mathematics*, 51

(4):??, August 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10251-x`.

Licht:2022:BCF

[Lic22] Martin W. Licht. On basis constructions in finite element exterior calculus. *Advances in Computational Mathematics*, 48 (2):??, April 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09926-6`.

Liu:1999:RKC

[Liu99] Yunkang Liu. Runge–Kutta-collocation methods for systems of functional-differential and functional equations. *Advances in Computational Mathematics*, 11(4):315–329, December 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018936328525`.

Liu:2018:NMS

[LJ18] Na Liu and Wei Jiang. A numerical method for solving the time fractional Schrödinger equation. *Advances in Computational Mathematics*, 44(4):1235–1248, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9579-z`.

Lu:2020:AAS

[LJL20] Jian Lu, Qingtang Jiang, and Lin Li. Analysis of adaptive synchrosqueezing transform with a time-varying parameter. *Advances in Computational Mathematics*, 46 (5):??, October 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09814-x`.

Ling:2005:LSP

[LK05] Leevan Ling and Edward J. Kansa. A least-squares preconditioner for radial basis functions collocation methods. *Advances in Computational Mathematics*, 23(1–2):31–54, July 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1809-5`.

Luan:2020:DTD

[LK20] Tran Nhat Luan and Tra Quoc Khanh. Determination of temperature distribution and thermal flux for two-dimensional inhomogeneous sideways heat equations. *Advances in Computational Mathematics*, 46 (4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL https://link.springer.com/article/10.1007/s10444-020-09796-w.

Lim:2026:MCM

[LK26] Hyeona Lim and Seongjai Kim. Minimum curvature method for surface reconstruction. *Advances in Computational Mathematics*, 52 (2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-026-10290-y.

Li:2018:RAD

[LKT18] Huamin Li, Yuval Kluger, and Mark Tygert. Randomized algorithms for distributed computation of principal component analysis and singular value decomposition. *Advances in Computational Mathematics*, 44(5):1651–1672, October 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9600-1.

Lewanowicz:2017:BFD

[LKW17] Stanisław Lewanowicz, Paweł Keller, and Paweł Woźny. Bézier form of dual bivariate Bernstein polynomials. *Advances in Computational Mathematics*, 43(4): 777–793, August 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9506-8.

Laghchim-Lahlou:1998:FSC

[LL98] Mohammed Laghchim-Lahlou. The C^r-fundamental splines of Clough–Tocher and Powell–Sabin types for Lagrange interpolation on a three direction mesh. *Advances in Computational Mathematics*, 8(4): 353–366, June 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018904532218.

Levesley:1999:DFS

[LL99] Jeremy Levesley and Will Light. Direct form seminorms arising in the theory of interpolation by translates of a basis function. *Advances in Computational Mathematics*, 11(2–3):161–182, November 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018971808961. Radial basis functions and their applications.

Lai:2004:NKT

[LL04] Ming-Jun Lai and A. LeMéhauté. A new kind of trivariate C^1 macro-element. *Advances in Computational Mathematics*, 21(3–4):273–292, October 2004. CO-

DEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/B:ACOM.0000032047.05052.27`.

Lin:2007:CAE

[LL07a] Qun Lin and Jiaquan Liu. Counterexamples to the asymptotic expansion of interpolation in finite elements. *Advances in Computational Mathematics*, 27(2): 167–177, August 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9030-y`.

Lu:2007:FSA

[LL07b] Shujuan Lü and Qishao Lu. Fourier spectral approximation to long-time behavior of three dimensional Ginzburg–Landau type equation. *Advances in Computational Mathematics*, 27(3): 293–318, October 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-9004-x`.

Lv:2010:EEF

[LL10] Junliang Lv and Yonghai Li. L^2 error estimate of the finite volume element methods on quadrilateral meshes. *Advances in Computational Mathematics*, 33(2): 129–148, August 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9121-z`.

Lian:2011:GFS

[LL11] Qiao-Fang Lian and Yun-Zhang Li. Gabor frame sets for subspaces. *Advances in Computational Mathematics*, 34(4):391–411, May 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9161-4`.

Lin:2012:AHO

[LL12a] Fu-Rong Lin and Fen Liang. Application of high order numerical quadratures to numerical inversion of the Laplace transform. *Advances in Computational Mathematics*, 36(2):267–278, February 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9202-7`.

Lv:2012:EES

[LL12b] Junliang Lv and Yonghai Li. L^2 error estimates and superconvergence of the finite volume element methods on quadrilateral meshes. *Advances in Computational Mathematics*, 37(3):393–416, October 2012. CODEN

ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9215-2`.

Li:2013:SGF

[LL13] Yun-Zhang Li and Qiao-Fang Lian. Super Gabor frames on discrete periodic sets. *Advances in Computational Mathematics*, 38(4): 763–799, May 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9259-3`.

Li:2021:ROP

[LL21] Huiping Li and Song Li. Riemannian optimization for phase retrieval from masked Fourier measurements. *Advances in Computational Mathematics*, 47(6):??, December 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09914-2`.

Lin:2025:AFE

[LL25] Lei Lin and Junliang Lv. An adaptive finite element DtN method for the acoustic-elastic interaction problem in periodic structures. *Advances in Computational Mathematics*, 51 (4):??, August 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10253-9`.

Liu:2016:WGF

[LLC16] Xin Liu, Jian Li, and Zhangxin Chen. A weak Galerkin finite element method for the Oseen equations. *Advances in Computational Mathematics*, 42(6):1473–1490, December 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9471-2`.

Lyu:2026:EDE

[LLC26] Zhiyuan Lyu, Lok Ming Lui, and Gary P. T. Choi. Ellipsoidal density-equalizing map for genus-0 closed surfaces. *Advances in Computational Mathematics*, 52 (3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10304-9`.

Liu:2024:ECJ

[LLD24] Guidong Liu, Wenjie Liu, and Beiping Duan. Estimates for coefficients in Jacobi series for functions with limited regularity by fractional calculus. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.`

springer.com/article/10.1007/s10444-024-10159-y.

Linyi:2024:LWD

[LLHYN24] Yang Linyi, Zhang Lei-Hong, and Zhang Ya-Nan. The L_q-weighted dual programming of the linear Chebyshev approximation and an interior-point method. *Advances in Computational Mathematics*, 50(4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10177-w.

Lin:2024:AFE

[LLL24] Lei Lin, Junliang Lv, and Shuxin Li. An adaptive finite element DtN method for the acoustic-elastic interaction problem. *Advances in Computational Mathematics*, 50(4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10160-5.

Lin:2023:ECA

[LLLH23] Jia-Wei Lin, Tiexiang Li, Wen-Wei Lin, and Tsung-Ming Huang. Ellipsoidal conformal and area-/volume-preserving parameterizations and associated optimal mass transportations. *Advances in Computational Mathematics*, 49(4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10048-w.

Li:2024:AVP

[LLR24] Hongpeng Li, Xu Li, and Hongxing Rui. Analysis of a $\boldsymbol{P}_1 \oplus \boldsymbol{RT}_0$ finite element method for linear elasticity with Dirichlet and mixed boundary conditions. *Advances in Computational Mathematics*, 50 (1):??, February 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10107-w.

Laghchim-Lahlou:1994:TFE

[LLS94] M. Laghchim-Lahlou and P. Sablonnière. Triangular finite elements of HCT type and class C^ρ. *Advances in Computational Mathematics*, 2(1):101–122, January 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02519038.

Lawton:1995:CCS

[LLS95] Wayne Lawton, S. L. Lee, and Zuowei Shen. Characterization of compactly supported refinable splines. *Advances in Computational Mathematics*, 3(1–2):137–145, January 1995. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF03028364.

Laghchim-Lahlou:1996:FEP

[LLS96] M. Laghchim-Lahlou and P. Sablonnière. C^r-finite elements of Powell–Sabin type on the three direction mesh. *Advances in Computational Mathematics*, 6(1):191–206, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02127703.

Lee:2003:LFN

[LLS03] Chang-Ock Lee, Jongwoo Lee, and Dongwoo Sheen. A locking-free nonconforming finite element method for planar linear elasticity. *Advances in Computational Mathematics*, 19(1–3):277–291, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1022838628615. Challenges in computational mathematics (Pohang, 2001).

Lee:2009:CNA

[LLS09] Cheng-Feng Lee, Leevan Ling, and Robert Schaback. On convergent numerical algorithms for unsymmetric collocation. *Advances in Computational Mathematics*, 30(4):339–354, May 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9071-x.

Lee:2006:SBS

[LLY06] Byung-Gook Lee, Yeon Ju Lee, and Jungho Yoon. Stationary binary subdivision schemes using radial basis function interpolation. *Advances in Computational Mathematics*, 25(1–3):57–72, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-7642-z.

Luo:2012:PPC

[LLY12] Xingjun Luo, Fanchun Li, and Suhua Yang. *A posteriori* parameter choice strategy for fast multiscale methods solving ill-posed integral equations. *Advances in Computational Mathematics*, 36(2):299–314, February 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9229-9.

Li:2026:OPD

[LLY26] Ruo Li, Qicheng Liu, and Fanyi Yang. An optimal preconditioned discontinuous Galerkin method for biharmonic equation with C^0

-reconstructed approximation. *Advances in Computational Mathematics*, 52(1): ??, February 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10277-1`.

Li:2010:ESS

[LLZ10] Mingxia Li, Qun Lin, and Shuhua Zhang. Extrapolation and superconvergence of the Steklov eigenvalue problem. *Advances in Computational Mathematics*, 33 (1):25–44, July 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9118-7`.

Liu:2025:NKD

[LLZ25] Xiaojuan Liu, Maojun Li, and Shangyou Zhang. A nonsingular-kernel Dirichlet-to-Dirichlet mapping method for the exterior Stokes problem. *Advances in Computational Mathematics*, 51(1): ??, February 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10216-6`.

Lamberti:2004:TQI

[LM04] P. Lamberti and C. Manni. Tensioned quasi-interpolation via geometric continuity. *Advances in Computational Mathematics*, 20(1–3):105–127, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1025823221346`. Approximation and applications.

Lyche:2006:TPE

[LM06] Tom Lyche and Marie-Laurence Mazure. Total positivity and the existence of piecewise exponential B-splines. *Advances in Computational Mathematics*, 25(1–3):105–133, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7633-0`.

LeGia:2014:SHE

[LM14] Quoc Thong Le Gia and William McLean. Solving the heat equation on the unit sphere via Laplace transforms and radial basis functions. *Advances in Computational Mathematics*, 40(2): 353–375, April 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9311-6`.

Lemvig:2014:PTF

[LMO14] Jakob Lemvig, Christopher Miller, and Kasso A. Okoudjou. Prime tight

frames. *Advances in Computational Mathematics*, 40(2): 315–334, April 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9309-0`.

Lepe:2023:CPV

[LMRV23a] F. Lepe, D. Mora, G. Rivera, and I. Velásquez. Correction: a posteriori virtual element method for the acoustic vibration problem. *Advances in Computational Mathematics*, 49(2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10022-6`.

Lepe:2023:PVE

[LMRV23b] F. Lepe, D. Mora, G. Rivera, and I. Velásquez. A posteriori virtual element method for the acoustic vibration problem. *Advances in Computational Mathematics*, 49(1): ??, February 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-10003-1`.

Liu:2001:MEE

[LMT01] Wenbin Liu, Heping Ma, and Tao Tang. On mixed error estimates for elliptic obstacle problems. *Advances in Computational Mathematics*, 15(1–4):261–283, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014261013164`. *A posteriori* error estimation and adaptive computational methods.

Linh:2011:MEA

[LMV11] Vu Hoang Linh, Volker Mehrmann, and Erik S. Van Vleck. QR methods and error analysis for computing Lyapunov and Sacker–Sell spectral intervals for linear differential-algebraic equations. *Advances in Computational Mathematics*, 35(2–4):281–322, November 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9156-1`.

Liu:2013:FRK

[LMWX13] Jianqiang Liu, Charles A. Micchelli, Rui Wang, and Yuesheng Xu. Finite rank kernels for multi-task learning. *Advances in Computational Mathematics*, 38(2): 427–439, February 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9244-x`.

Li:2019:ENS

[LMYL19] Qi Li, Liquan Mei, Xiaofeng Yang, and Yibao Li. Efficient numerical schemes with unconditional energy stabilities for the modified phase field crystal equation. *Advances in Computational Mathematics*, 45(3): 1551–1580, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09678-w`.

Lechleiter:2014:TGM

[LN14] Armin Lechleiter and Dinh-Liem Nguyen. A trigonometric Galerkin method for volume integral equations arising in TM grating scattering. *Advances in Computational Mathematics*, 40(1): 1–25, February 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9295-2`.

Li:2019:ICU

[LN19] Fang Li and Michael K. Ng. Image colorization by using graph bi-Laplacian. *Advances in Computational Mathematics*, 45(3):1521–1549, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09677-x`.

Lyche:2002:PIM

[LNW02] Tom Lyche, Trygve K. Nilssen, and Ragnar Winther. Preconditioned iterative methods for scattered data interpolation. *Advances in Computational Mathematics*, 17(3):237–256, October 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016050415412`.

Li:2008:ONS

[LO08] Shidong Li and Hidemitsu Ogawa. Optimal noise suppression: a geometric nature of pseudoframes for subspaces. *Advances in Computational Mathematics*, 28(2): 141–155, February 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-006-9014-3`.

Lohi:2023:NDF

[Loh23] Jonni Lohi. New degrees of freedom for differential forms on cubical meshes. *Advances in Computational Mathematics*, 49(3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10047-x`.

Lopez:2018:CEB

[Lóp18] José L. López. Conver-

gent expansions of the Bessel functions in terms of elementary functions. *Advances in Computational Mathematics*, 44(1):277–294, February 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9543-y`.

Lowitzsch:2005:MVR

[Low05] Svenja Lowitzsch. Matrix-valued radial basis functions: stability estimates and applications. *Advances in Computational Mathematics*, 23(3): 299–315, October 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1786-8`.

Lyche:2004:OSM

[LP04] T. Lyche and J. M. Peña. Optimally stable multivariate bases. *Advances in Computational Mathematics*, 20(1–3): 149–159, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1025863309959`. Approximation and applications.

Li:2010:SSP

[LP10] Song Li and Yali Pan. Subdivision schemes with polynomially decaying masks. *Advances in Computational Mathematics*, 32(4):487–507, May 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9116-9`.

Lyon:2014:FAS

[LP14] M. Lyon and J. Picard. The Fourier approximation of smooth but non-periodic functions from unevenly spaced data. *Advances in Computational Mathematics*, 40(5–6):1073–1092, December 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9342-7`.

Lasserre:2019:ECF

[LP19] Jean B. Lasserre and Edouard Pauwels. The empirical Christoffel function with applications in data analysis. *Advances in Computational Mathematics*, 45(3): 1439–1468, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09673-1`.

Laakmann:2021:EAS

[LP21] Fabian Laakmann and Philipp Petersen. Efficient approximation of solutions of parametric linear transport equations by ReLU

DNNs. *Advances in Computational Mathematics*, 47 (1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09834-7`.

Lorente-Pardo:2000:CSA

[LPSSP00] J. Lorente-Pardo, P. Sablonnière, and M. C. Serrano-Pérez. On the convexity of C^1 surfaces associated with some quadrilateral finite elements. *Advances in Computational Mathematics*, 13 (3):271–292, July 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018958328042`.

Lammers:2010:ADF

[LPY10] Mark Lammers, Alexander M. Powell, and Özgür Yılmaz. Alternative dual frames for digital-to-analog conversion in sigma–delta quantization. *Advances in Computational Mathematics*, 32(1):73–102, January 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9088-1`.

Li:2014:HWS

[LQ14] Gang Li and Jianxian Qiu. Hybrid WENO schemes with different indicators on curvilinear grids. *Advances in Computational Mathematics*, 40(4):747–772, August 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9322-3`.

Lindsay:2018:BIE

[LQW18] Alan E. Lindsay, Bryan Quaife, and Laura Wendelberger. A boundary integral equation method for mode elimination and vibration confinement in thin plates with clamped points. *Advances in Computational Mathematics*, 44(4):1249–1273, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9580-6`.

Levesley:2007:RBI

[LR07] J. Levesley and D. L. Ragozin. Radial basis interpolation on homogeneous manifolds: convergence rates. *Advances in Computational Mathematics*, 27(2):237–246, August 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-9000-1`.

Lehrenfeld:2019:MCR

[LR19] Christoph Lehrenfeld and Stephan Rave. Mass conser-

vative reduced order modeling of a free boundary osmotic cell swelling problem. *Advances in Computational Mathematics*, 45(5–6):2215–2239, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09691-z`.

Liu:2025:NVE

[LR25] Yi Liu and Alessandro Russo. Nonconforming virtual element method for general second-order elliptic problems on curved domain. *Advances in Computational Mathematics*, 51 (4):??, August 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10242-y`.

Linss:2012:NMS

[LRS12] Torsten Linß, Hans-Görg Roos, and Martin Schopf. Nitsche-mortaring for singularly perturbed convection–diffusion problems. *Advances in Computational Mathematics*, 36(4):581–603, May 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9195-2`.

Landoulsi:2023:IOF

[LRY23] Oussama Landoulsi, Svetlana Roudenko, and Kai Yang. Interaction with an obstacle in the 2D focusing nonlinear Schrödinger equation. *Advances in Computational Mathematics*, 49 (5):??, October 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10055-x`.

Lai:1998:APB

[LS98] Ming-Jun Lai and Larry L. Schumaker. On the approximation power of bivariate splines. *Advances in Computational Mathematics*, 9(3–4):251–279, November 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018958011262`.

Lu:2005:PDD

[LS05] Fangyan Lu and Hongwei Sun. Positive definite dot product kernels in learning theory. *Advances in Computational Mathematics*, 22(2): 181–198, February 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-3140-6`.

Lv:2018:RPR

[LS18] Fusheng Lv and Wenchang Sun. Real phase retrieval from unordered partial frame coefficients. *Advances in*

Computational Mathematics, 44(3):879–896, June 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9566-4`.

Liang:2019:CMG

[LS19] Hui Liang and Martin Stynes. Collocation methods for general Riemann–Liouville two-point boundary value problems. *Advances in Computational Mathematics*, 45(2):897–928, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9645-1`.

Li:2020:SEE

[LS20] Xiaoli Li and Jie Shen. Stability and error estimates of the SAV Fourier-spectral method for the phase field crystal equation. *Advances in Computational Mathematics*, 46(3):??, June 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09789-9`.

Lei:2024:PRG

[LS24] Guanhang Lei and Lei Shi. Pairwise ranking with Gaussian kernel. *Advances in Computational Mathematics*, 50(4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10165-0`.

Levie:2014:ATA

[LSLS14] R. Levie, H.-G. Stark, F. Lieb, and N. Sochen. Adjoint translation, adjoint observable and uncertainty principles. *Advances in Computational Mathematics*, 40(3):609–627, June 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9336-x`.

LeGia:2011:SNP

[LST11] Q. T. Le Gia, E. P. Stephan, and T. Tran. Solution to the Neumann problem exterior to a prolate spheroid by radial basis functions. *Advances in Computational Mathematics*, 34(1):83–103, January 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9145-4`.

LeGia:2017:ZGL

[LSW17] Q. T. Le Gia, I. H. Sloan, and H. Wendland. Zooming from global to local: a multiscale RBF approach. *Advances in Computational Mathematics*, 43(3):581–606, June 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL `http://link.springer.com/article/10.1007/s10444-016-9498-4`.

Li:2015:MSF

[LSXZ15] Qia Li, Lixin Shen, Yuesheng Xu, and Na Zhang. Multi-step fixed-point proximity algorithms for solving a class of optimization problems arising from image processing. *Advances in Computational Mathematics*, 41(2): 387–422, April 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9363-2`.

Li:2022:DAT

[LSY22] Jichun Li, Chi-Wang Shu, and Wei Yang. Development and analysis of two new finite element schemes for a time-domain carpet cloak model. *Advances in Computational Mathematics*, 48 (3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09948-0`.

Langer:2024:RST

[LSY24] Ulrich Langer, Olaf Steinbach, and Huidong Yang. Robust space-time finite element methods for parabolic distributed optimal control problems with energy regularization. *Advances in Computational Mathematics*, 50 (2):??, April 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10123-w`.

Liu:2026:SCL

[LSZ26] Zhixin Liu, Minghui Song, and Yuhang Zhang. Strong convergence of linear implicit virtual element methods for the nonlinear stochastic parabolic equation with multiplicative noise. *Advances in Computational Mathematics*, 52(1):??, February 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10280-6`.

Liandrat:1998:FAS

[LT98] J. Liandrat and Ph. Tchamitchian. On the fast approximation of some nonlinear operators in nonregular wavelet spaces. *Advances in Computational Mathematics*, 8(4): 179–192, June 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018992129492`.

Leviatan:2006:SAG

[LT06] D. Leviatan and V. N. Temlyakov. Simultaneous approximation by greedy algorithms. *Advances in Computational Mathematics*, 25

(1–3):73–90, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7613-4`.

Liu:2012:SGT

[LT12] Entao Liu and Vladimir N. Temlyakov. Super greedy type algorithms. *Advances in Computational Mathematics*, 37(4):493–504, November 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9220-5`.

Lopez:2013:NSE

[LT13] José L. López and Nico M. Temme. New series expansions of the Gauss hypergeometric function. *Advances in Computational Mathematics*, 39(2):349–365, August 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9283-y`.

Luo:1999:SPD

[Luo99] Zuhua Luo. Strictly positive definiteness of Hermite interpolation on spheres. *Advances in Computational Mathematics*, 10(3–4):261–270, May 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018982716713`.

Luther:2004:ASN

[Lut04] U. Luther. Approximation spaces in the numerical analysis of operator equations. *Advances in Computational Mathematics*, 20(1–3):129–147, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1025806612592`. Approximation and applications.

Liu:2003:UNU

[LW03] Youming Liu and Yang Wang. The uniformity of non-uniform Gabor bases. *Advances in Computational Mathematics*, 18(2–4):345–355, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021350103925`. Frames.

Lai:2004:SMS

[LW04] Ming-Jun Lai and Paul Wenston. L_1 spline methods for scattered data interpolation and approximation. *Advances in Computational Mathematics*, 21(3–4):293–315, October 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.`

1023/B:ACOM.0000032042.35918.c2.

LeGia:2014:DCS

[LW14] Q. T. Le Gia and H. Wendland. Data compression on the sphere using multiscale radial basis function approximation. *Advances in Computational Mathematics*, 40(4): 923–943, August 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-013-9334-z.

Li:2023:CSA

[LW23] Ting Li and Bin Wang. Continuous-stage adapted exponential methods for charged-particle dynamics with arbitrary magnetic fields. *Advances in Computational Mathematics*, 49(6): ??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10093-5.

Li:2026:PBP

[LW26] Meng-Yao Li and Bo Wu. A parameterized block preconditioner for solving a class of complex symmetric linear systems. *Advances in Computational Mathematics*, 52 (4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-026-10326-3.

Liu:2017:FDS

[LWL17] Fu-Jun Liu, Zhong-Qing Wang, and Hui-Yuan Li. A fully diagonalized spectral method using generalized Laguerre functions on the half line. *Advances in Computational Mathematics*, 43(6):1227–1259, December 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-017-9522-3.

Liu:2021:OEE

[LWW21] Wenjie Liu, Li-Lian Wang, and Boying Wu. Optimal error estimates for Legendre expansions of singular functions with fractional derivatives of bounded variation. *Advances in Computational Mathematics*, 47(6): ??, December 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09905-3.

Liu:2022:WCD

[LWWZ22] Jun Liu, Xiang-Sheng Wang, Shu-Lin Wu, and Tao Zhou. A well-conditioned direct PinT algorithm for first- and second-order evolutionary equations. *Advances in Computational Mathematics*,

48(3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09928-4`.

Lu:2019:CIP

[LWX19] Peipei Lu, Haijun Wu, and Xuejun Xu. Continuous interior penalty finite element methods for the time-harmonic Maxwell equation with high wave number. *Advances in Computational Mathematics*, 45(5–6):3265–3291, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09737-2`.

Lian:2006:CLT

[LWY06] Qiaofang Lian, Yongge Wang, and Dunyan Yan. A characterization of $L^p(\mathbf{R})$ by local trigonometric bases with $1 < p < \infty$. *Advances in Computational Mathematics*, 25(1–3):91–104, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7625-0`.

Wang:2006:SLP

[lWyG06] Li lian Wang and Ben yu Guo. Stair Laguerre pseudospectral method for differential equations on the half line. *Advances in Computational Mathematics*, 25(1–3):305–322, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-003-7608-6`.

Liu:2019:NGC

[LWZ19] Zhifang Liu, Chunlin Wu, and Yanan Zhao. A new globally convergent algorithm for non-Lipschitz l_p–l_q minimization. *Advances in Computational Mathematics*, 45(3):1369–1399, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09668-y`.

Li:2026:WTC

[LX26a] Fu Li and Yingxiang Xu. Which transmission condition is the best in optimized Schwarz waveform relaxation for viscoelastic equation: Robin or characteristic? *Advances in Computational Mathematics*, 52(3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10305-8`.

Liu:2026:DTM

[LX26b] Zhiyong Liu and Qiuyan Xu. A discretization theory of meshfree collocation for nonlinear systems of partial differential equations. *Advances*

in Computational Mathematics, 52(3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10310-x`.

Xu:2002:MLL

[lXyG02] Cheng long Xu and Ben yu Guo. Mixed Laguerre–Legendre spectral method for incompressible flow in an infinite strip. *Advances in Computational Mathematics*, 16 (1):77–96, January 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014249613222`.

Liu:2001:PEE

[LY01] Wenbin Liu and Ningning Yan. *A posteriori* error estimates for distributed convex optimal control problems. *Advances in Computational Mathematics*, 15(1–4):285–309, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014239012739`. *A posteriori* error estimation and adaptive computational methods.

Li:2007:CMK

[LY07] Haitao Li and Dunyan Yan. Characterizations of multi-knot piecewise linear spectral sequences. *Advances in Computational Mathematics*, 27(4):401–422, November 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-9006-8`.

Liu:2008:SAN

[LY08] Huipo Liu and Ningning Yan. Superconvergence analysis of the nonconforming quadrilateral linear-constant scheme for Stokes equations. *Advances in Computational Mathematics*, 29(4):375–392, November 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9054-3`.

Li:2021:NCA

[LY21] Zhi Li and Ming Yan. New convergence analysis of a primal-dual algorithm with large stepsizes. *Advances in Computational Mathematics*, 47(1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09840-9`.

Li:2021:SSO

[LYF+21] Yibao Li, Qian Yu, Weiwei Fang, Binhu Xia, and Junseok Kim. A stable second-order BDF scheme for

the three-dimensional Cahn–Hilliard–Hele–Shaw system. *Advances in Computational Mathematics*, 47(1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09835-6.

Li:2013:BMS

[LYY13] Youfa Li, Shouzhi Yang, and Dehui Yuan. Bessel multiwavelet sequences and dual multiframelets in Sobolev spaces. *Advances in Computational Mathematics*, 38(3): 491–529, April 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9246-8.

Li:2026:SGF

[LYZ26] Jiajie Li, Hui Yang, and Shengfeng Zhu. Stabilized gradient flow schemes of phase field model for shape and topology optimization in diffusion. *Advances in Computational Mathematics*, 52(3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-026-10303-w.

Li:2020:CSP

[LZ20a] Xin Li and Luming Zhang. A conservative sine pseudo-spectral-difference method for multi-dimensional coupled Gross–Pitaevskii equations. *Advances in Computational Mathematics*, 46 (2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09769-z.

Li:2020:UOC

[LZ20b] Yuan Li and Chunfang Zhai. Unconditionally optimal convergence analysis of second-order BDF Galerkin finite element scheme for a hybrid MHD system. *Advances in Computational Mathematics*, 46(5):??, October 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09815-w.

Liang:2021:RPT

[LZ21] Zhao-Zheng Liang and Guo-Feng Zhang. Robust preconditioning techniques for multiharmonic finite element method with application to time-periodic parabolic optimal control problems. *Advances in Computational Mathematics*, 47 (5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09887-2.

Li:2022:HOC

[LZ22] Xin Li and Luming Zhang. High-order conservative energy quadratization schemes for the Klein–Gordon–Schrödinger equation. *Advances in Computational Mathematics*, 48 (4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09962-2`.

Li:2025:PUC

[LZ25] Binjie Li and Qin Zhou. Pathwise uniform convergence of a full discretization for a three-dimensional stochastic Allen–Cahn equation with multiplicative noise. *Advances in Computational Mathematics*, 51(6):??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10261-9`.

Liu:2026:DBK

[LZ26] Yong Liu and Jianjun Zhang. On a deterministic block Kaczmarz-type method and its acceleration for the solution of large-scale linear systems. *Advances in Computational Mathematics*, 52 (3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10317-4`.

Liu:2021:CFE

[LZCW21] Huan Liu, Xiangcheng Zheng, Chuanjun Chen, and Hong Wang. A characteristic finite element method for the time-fractional mobile/immobile advection diffusion model. *Advances in Computational Mathematics*, 47 (3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09867-6`.

Li:2023:ADF

[LZL23] Jian Li, Jiyao Zeng, and Rui Li. An adaptive discontinuous finite volume element method for the Allen–Cahn equation. *Advances in Computational Mathematics*, 49 (4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10031-5`.

Liu:2026:ACE

[LZlL26] Nan Liu, Haiqing Zhang, and Hong lin Liao. On the asymptotically compatible energies of L1 and L1-SAV schemes for time-fractional Allen–Cahn model. *Advances in Computational Mathematics*, 52 (1):??, February 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL https://link.springer.com/article/10.1007/s10444-026-10283-x.

Zhu:2003:ASS

[lZmCRX03] You lan Zhu, Bin mu Chen, Hongliang Ren, and Hanping Xu. Application of the singularity-separating method to American exotic option pricing. *Advances in Computational Mathematics*, 19(1–3):147–158, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1022835722199. Challenges in computational mathematics (Pohang, 2001).

Lin:1998:AMI

[LZY98] Qun Lin, Shuhua Zhang, and Ningning Yan. An acceleration method for integral equations by using interpolation post-processing. *Advances in Computational Mathematics*, 9(1–2):117–129, September 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018925103993. Numerical treatment of boundary integral equations.

Lin:2009:SSP

[LZZ09] Yanping Lin, Kai Zhang, and Jun Zou. Studies on some perfectly matched layers for one-dimensional time-dependent systems. *Advances in Computational Mathematics*, 30(1):1–35, January 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-007-9055-2.

MacLeod:1994:TBT

[Mac94] Allan J. MacLeod. Table-based tests for Bessel function software. *Advances in Computational Mathematics*, 2(2):251–260, March 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02521111.

Maiorov:2005:LBR

[Mai05] V. Maiorov. On lower bounds in radial basis approximation. *Advances in Computational Mathematics*, 22(2):103–113, February 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-1090-7.

Maiorov:2006:PDE

[Mai06] V. Maiorov. Pseudo-dimension and entropy of manifolds formed by affine-invariant dictionary. *Advances in Computational Mathematics*, 25(4):435–450, November 2006. CODEN

ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7645-9`.

Maiorov:2010:GPR

[Mai10] Vitaly Maiorov. Geometric properties of the ridge function manifold. *Advances in Computational Mathematics*, 32(2):239–253, February 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9106-3`; `http://link.springer.com/content/pdf/10.1007/s10444-008-9106-3.pdf`.

Maier:2020:ARP

[Mai20] L.-B. Maier. Ambient residual penalty approximation of partial differential equations on embedded submanifolds. *Advances in Computational Mathematics*, 46 (4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09802-1`.

Marletta:1994:NSE

[Mar94] Marco Marletta. Numerical solution of eigenvalue problems for Hamiltonian systems. *Advances in Computational Mathematics*, 2(2): 155–184, March 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02521106`.

Maroni:1995:ISD

[Mar95] P. Maroni. An introduction to second degree forms. *Advances in Computational Mathematics*, 3(1–2):59–88, January 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02431996`.

Matthies:2009:LPS

[Mat09] Gunar Matthies. Local projection stabilisation for higher order discretisations of convection–diffusion problems on Shishkin meshes. *Advances in Computational Mathematics*, 30(4):315–337, May 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9070-y`.

Mazure:1998:VTD

[Maz98] Marie-Laurence Mazure. Vandermonde type determinants and blossoming. *Advances in Computational Mathematics*, 8(4):291–315, June 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018956616288`.

Mazure:1999:CSP

[Maz99] Marie-Laurence Mazure. Chebyshev spaces with polynomial blossoms. *Advances in Computational Mathematics*, 10(3–4):219–238, May 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018995019439`.

Mazure:2001:CSB

[Maz01] Marie-Laurence Mazure. Chebyshev splines beyond total positivity. *Advances in Computational Mathematics*, 14(2):129–156, February 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016616731472`.

Mazure:2004:BOB

[Maz04] Marie-Laurence Mazure. Blossoms and optimal bases. *Advances in Computational Mathematics*, 20(1–3):177–203, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1025855123163`. Approximation and applications.

Mazure:2007:PBA

[Maz07] Marie-Laurence Mazure. Pseudoaffinity, de Boor algorithm, and blossoms. *Advances in Computational Mathematics*, 26(1–3):305–322, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-7450-0`.

Morton:1996:SBC

[MB96] K. W. Morton and N. A. Burgess. The stability of boundary conditions for an angled-derivative difference scheme. *Advances in Computational Mathematics*, 6(1):263–279, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127707`. John Crank 80th birthday special issue.

Malik:2020:FRM

[MB20] Osman Asif Malik and Stephen Becker. Fast randomized matrix and tensor interpolative decomposition using CountSketch. *Advances in Computational Mathematics*, 46(6):??, December 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09816-9`.

Mao:2008:QNF

[MC08] Shipeng Mao and Shaochun Chen. A quadrilateral non-

conforming finite element for linear elasticity problem. *Advances in Computational Mathematics*, 28(1): 81–100, January 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-006-9017-0`.

Milovanovic:2010:NGQ

[MC10] Gradimir V. Milovanović and Aleksandar S. Cvetković. Nonstandard Gaussian quadrature formulae based on operator values. *Advances in Computational Mathematics*, 32 (4):431–486, May 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9114-y`.

Miao:2023:FBC

[MC23] Cun-Qiang Miao and Lan Cheng. On flexible block Chebyshev–Davidson method for solving symmetric generalized eigenvalue problems. *Advances in Computational Mathematics*, 49(6): ??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10078-4`.

Massar:2011:FCS

[MFB+11] Melody L. Massar, Matthew Fickus, Erik Bryan, Douglas T. Petkie, and Andrew J. Terzuoli, Jr. Fast computation of spectral centroids. *Advances in Computational Mathematics*, 35 (1):83–97, July 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9167-y`.

Mezzadri:2019:NLM

[MG19] Francesco Mezzadri and Emanuele Galligani. A nonlinearity lagging method for non-steady diffusion equations with nonlinear convection terms. *Advances in Computational Mathematics*, 45(3):1185–1220, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9652-2`.

Marchand:2022:AGH

[MGSS22] P. Marchand, J. Galkowski, E. A. Spence, and A. Spence. Applying GMRES to the Helmholtz equation with strong trapping: how does the number of iterations depend on the frequency? *Advances in Computational Mathematics*, 48(4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09931-9`.

Mustafa:2017:FUB

[MH17] Ghulam Mustafa and Rabia Hameed. Families of univariate and bivariate subdivision schemes originated from quartic B-spline. *Advances in Computational Mathematics*, 43(5):1131–1161, October 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9519-y`.

Maierhofer:2022:CAO

[MH22] Georg Maierhofer and Daan Huybrechs. Convergence analysis of oversampled collocation boundary element methods in 2D. *Advances in Computational Mathematics*, 48(2):??, April 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09924-8`.

Mhaskar:1993:APM

[Mha93] H. N. Mhaskar. Approximation properties of a multilayered feedforward artificial neural network. *Advances in Computational Mathematics*, 1(1):61–80, February 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02070821`.

Mohaoui:2021:TCB

[MHR21] Souad Mohaoui, Abdelilah Hakim, and Said Raghay. Tensor completion via bilevel minimization with fixed-point constraint to estimate missing elements in noisy data. *Advances in Computational Mathematics*, 47 (1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09841-8`.

Miyajima:2019:VCM

[Miy19] Shinya Miyajima. Verified computation of the matrix exponential. *Advances in Computational Mathematics*, 45(1):137–152, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9609-5`.

Merchel:2023:ALR

[MJM23] Sandra Merchel, Bert Jüttler, and Dominik Mokris. Adaptive and local regularization for data fitting by tensor-product spline surfaces. *Advances in Computational Mathematics*, 49 (4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10035-1`.

Macon:2002:RSC

[MKS02] Charles A. Macon, Leo C. Kempel, and Stephen W. Schneider. Radiation and scattering by complex conformal antennas on a circular cylinder. *Advances in Computational Mathematics*, 16(2–3):191–209, April 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014425527687`. Modeling and computation in optics and electromagnetics.

Mason:1993:E

[MM93] John C. Mason and Charles A. Micchelli. Editorial. *Advances in Computational Mathematics*, 1(1):i, February 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02070817`.

Mason:1999:CE

[MM99] John C. Mason and Charles A. Micchelli. The current Editor. *Advances in Computational Mathematics*, 11(2–3):i, November 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018984211687`.

Maiorov:2000:NOS

[MM00] V. E. Maiorov and R. Meir. On the near optimality of the stochastic approximation of smooth functions by neural networks. *Advances in Computational Mathematics*, 13 (1):79–103, April 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018993908478`.

Meng:2020:MVE

[MM20] Jian Meng and Liquan Mei. A mixed virtual element method for the vibration problem of clamped Kirchhoff plate. *Advances in Computational Mathematics*, 46 (5):??, October 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09810-1`.

Moseley:2023:FBP

[MMNM23] Ben Moseley, Andrew Markham, and Tarje Nissen-Meyer. Finite basis physics-informed neural networks (FBPINNs): a scalable domain decomposition approach for solving differential equations. *Advances in Computational Mathematics*, 49(4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10065-9`.

Micchelli:2013:RSS

[MMP13] Charles A. Micchelli, Jean M.

Morales, and Massimiliano Pontil. Regularizers for structured sparsity. *Advances in Computational Mathematics*, 38(3): 455–489, April 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9245-9`.

Morigi:2000:SRC

[MN00] Serena Morigi and Marian Neamtu. Some results for a class of generalized polynomials. *Advances in Computational Mathematics*, 12(2–3): 133–149, February 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018908917139`.

Manzoni:2015:HSA

[MN15] Andrea Manzoni and Federico Negri. Heuristic strategies for the approximation of stability factors in quadratically nonlinear parametrized PDEs. *Advances in Computational Mathematics*, 41(5):1255–1288, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9413-4`.

Mallik:2016:CFE

[MN16] Gouranga Mallik and Neela Nataraj. Conforming finite element methods for the von Kármán equations. *Advances in Computational Mathematics*, 42(5):1031–1054, October 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9452-5`.

Mishra:2024:ULP

[MN24] Sudheer Mishra and E. Natarajan. A unified local projection-based stabilized virtual element method for the coupled Stokes–Darcy problem. *Advances in Computational Mathematics*, 50 (6):??, December 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10199-4`.

Mustapha:2016:CSA

[MNC16] Kassem Mustapha, Maher Nour, and Bernardo Cockburn. Convergence and superconvergence analyses of HDG methods for time fractional diffusion problems. *Advances in Computational Mathematics*, 42(2): 377–393, April 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9428-x`.

Mishra:2025:SSV

[MNN25] Sudheer Mishra, E. Natara-

jan, and Sundararajan Natarajan. A SUPG-stabilized virtual element method for the Navier–Stokes equation: approximations of branches of non-singular solutions. *Advances in Computational Mathematics*, 51 (4):??, August 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10247-7`.

Mukherjee:2006:LTS

[MNPR06] Sayan Mukherjee, Partha Niyogi, Tomaso Poggio, and Ryan Rifkin. Learning theory: stability is sufficient for generalization and necessary and sufficient for consistency of empirical risk minimization. *Advances in Computational Mathematics*, 25(1–3):161–193, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7634-z`.

Mhaskar:2000:PFS

[MNPW00] H. N. Mhaskar, F. J. Narcowich, J. Prestin, and J. D. Ward. Polynomial frames on the sphere. *Advances in Computational Mathematics*, 13(4):387–403, December 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016639802349`.

Meinardus:1996:BSA

[MNW96] G. Meinardus, G. Nürnberger, and G. Walz. Bivariate segment approximation and splines. *Advances in Computational Mathematics*, 6(1): 25–45, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127694`.

Mhaskar:1999:APZ

[MNW99] H. N. Mhaskar, F. J. Narcowich, and J. D. Ward. Approximation properties of zonal function networks using scattered data on the sphere. *Advances in Computational Mathematics*, 11(2–3):121–137, November 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018967708053`. Radial basis functions and their applications.

Mhaskar:2004:RBD

[MNW04] H. N. Mhaskar, F. J. Narcowich, and J. D. Ward. On the representation of band-dominant functions on the sphere using finitely many bits. *Advances in Computational Mathematics*, 21(1–2):127–146, July 2004. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/B:ACOM.0000016434.97920.1f.

Marthinsen:2016:GIN

[MO16] Håkon Marthinsen and Brynjulf Owren. Geometric integration of non-autonomous linear Hamiltonian problems. *Advances in Computational Mathematics*, 42(2):313–332, April 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-015-9425-0.

Matthies:2019:APM

[MO19] Hermann G. Matthies and Roger Ohayon. Analysis of parametric models. *Advances in Computational Mathematics*, 45(5–6):2555–2586, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09735-4.

Monterde:2009:CHP

[Mon09] J. Monterde. A characterization of helical polynomial curves of any degree. *Advances in Computational Mathematics*, 30(1):61–78, January 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9063-x.

Moosmuller:2017:HSM

[Moo17] Caroline Moosmüller. Hermite subdivision on manifolds via parallel transport. *Advances in Computational Mathematics*, 43(5):1059–1074, October 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-017-9516-1; http://link.springer.com/content/pdf/10.1007/s10444-017-9516-1.pdf.

Mossner:2010:JSR

[Möß10] Bernhard Mößner. On the joint spectral radius of matrices of order 2 with equal spectral radius. *Advances in Computational Mathematics*, 33(2):243–254, August 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-009-9130-y.

Mortreux:1996:APA

[MP96] P. Mortreux and M. Prévost. An acceleration property of the E-algorithm for alternate sequences. *Advances in Computational Mathematics*, 5(1):443–482, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL `http://link.springer.com/article/10.1007/BF02124755`.

Mhaskar:2000:DSP

[MP00] H. N. Mhaskar and J. Prestin. On the detection of singularities of a periodic function. *Advances in Computational Mathematics*, 12(2–3): 95–131, February 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018921319865`.

Mainar:2004:QCC

[MP04] E. Mainar and J. M. Peña. Quadratic-cycloidal curves. *Advances in Computational Mathematics*, 20(1–3):161–175, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1025813919473`. Approximation and applications.

Mergia:2018:FSE

[MP18] Woinshet D. Mergia and Kailash C. Patidar. Fractional-step θ-method for solving singularly perturbed problem in ecology. *Advances in Computational Mathematics*, 44 (3):645–671, June 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9554-8`.

Mixon:2023:MFR

[MP23] Dustin G. Mixon and Daniel Packer. Max filtering with reflection groups. *Advances in Computational Mathematics*, 49(6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10084-6`.

Mainar:2022:ACM

[MPR22] E. Mainar, J. M. Peña, and B. Rubio. Accurate computations with matrices related to bases $t^i e^{\lambda t}$. *Advances in Computational Mathematics*, 48(4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09954-2`.

Marcellan:1996:OPL

[MPS96] Francisco Marcellán, Franz Peherstorfer, and Robert Steinbauer. Orthogonality properties of linear combinations of orthogonal polynomials. *Advances in Computational Mathematics*, 5(1):281–295, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124748`.

Marcellan:1997:OPL

[MPS97] Francisco Marcellán, Franz Peherstorfer, and Robert Steinbauer. Orthogonality properties of linear combinations of orthogonal polynomials. II. *Advances in Computational Mathematics*, 7(3): 401–428, May 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018963323132`.

Marusic:1996:CMS

[MR96] Miljenko Marušić and Mladen Rogina. A collocation method for singularly perturbed two-point boundary value problems with splines in tension. *Advances in Computational Mathematics*, 6(1): 65–76, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127696`.

Massey:2010:MCF

[MR10] Pedro Massey and Mariano Ruiz. Minimization of convex functionals over frame operators. *Advances in Computational Mathematics*, 32(2): 131–153, February 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9092-5`.

Madden:2015:MSG

[MR15] Niall Madden and Stephen Russell. A multiscale sparse grid finite element method for a two-dimensional singularly perturbed reaction–diffusion problem. *Advances in Computational Mathematics*, 41(6):1423–1450, December 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9395-7`.

Martini:2015:RBA

[MRH15] Immanuel Martini, Gianluigi Rozza, and Bernard Haasdonk. Reduced basis approximation and a-posteriori error estimation for the coupled Stokes–Darcy system. *Advances in Computational Mathematics*, 41(5):1131–1157, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9396-6`.

Matache:2003:HOC

[MRS03] Ana-Maria Matache, Tomáš Roubíček, and Christoph Schwab. Higher-order convex approximations of Young measures in optimal control. *Advances in Computational Mathematics*, 19(1–3):73–97, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL `http://link.springer.com/article/10.1023/A:1022883930432`. Challenges in computational mathematics (Pohang, 2001).

Massey:2014:OFC

[MRS14] Pedro G. Massey, Mariano A. Ruiz, and Demetrio Stojanoff. Optimal frame completions. *Advances in Computational Mathematics*, 40(5–6):1011–1042, December 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9339-7`.

Massey:2018:FCP

[MRS18] Pedro G. Massey, Noelia B. Rios, and Demetrio Stojanoff. Frame completions with prescribed norms: local minimizers and applications. *Advances in Computational Mathematics*, 44(1):51–86, February 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9535-y`.

Marcati:2022:TRB

[MRS22] C. Marcati, M. Rakhuba, and Ch. Schwab. Tensor rank bounds for point singularities in r^3. *Advances in Computational Mathematics*, 48(3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09925-7`.

Micchelli:1997:RM

[MS97] C. A. Micchelli and Thomas Sauer. Regularity of multiwavelets. *Advances in Computational Mathematics*, 7(4):455–545, August 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018971524949`.

Mund:1998:PGM

[MS98] Patrick Mund and Ernst P. Stephan. The preconditioned GMRES method for systems of coupled FEM–BEM equations. *Advances in Computational Mathematics*, 9(1–2):131–144, September 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018921003084`. Numerical treatment of boundary integral equations.

McLean:1999:BEP

[MS99] W. McLean and O. Steinbach. Boundary element preconditioners for a hypersingular integral equation on an interval. *Advances in Computational Mathematics*, 11(4):271–286, December 1999. CODEN

ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018944530343`.

Moller:2000:BPI

[MS00] H. Michael Möller and Thomas Sauer. H-bases for polynomial interpolation and system solving. *Advances in Computational Mathematics*, 12(4):335–362, March 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018937723499`. Multivariate polynomial interpolation.

Moller:2004:MRF

[MS04] H. Michael Möller and Thomas Sauer. Multivariate refinable functions of high approximation order via quotient ideals of Laurent polynomials. *Advances in Computational Mathematics*, 20(1–3):205–228, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1025889132677`. Approximation and applications.

Manni:2007:QSQ

[MS07] Carla Manni and Paul Sablonnière. Quadratic spline quasi-interpolants on Powell–Sabin partitions. *Advances in Computational Mathematics*, 26(1–3):283–304, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-006-9025-0`.

Merrien:2012:HSS

[MS12] Jean-Louis Merrien and Tomas Sauer. From Hermite to stationary subdivision schemes in one and several variables. *Advances in Computational Mathematics*, 36 (4):547–579, May 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9190-7`.

Munch:2016:MFD

[MS16] Arnaud Münch and Diego A. Souza. A mixed formulation for the direct approximation of L^2-weighted controls for the linear heat equation. *Advances in Computational Mathematics*, 42(1): 85–125, February 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9412-5`.

Mao:2018:SEM

[MS18] Zhiping Mao and Jie Shen. Spectral element method with geometric mesh for two-sided fractional differential

equations. *Advances in Computational Mathematics*, 44 (3):745–771, June 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9561-9`.

Meng:2019:CAA

[MS19] Xiangyun Meng and Martin Stynes. Convergence analysis of the Adini element on a Shishkin mesh for a singularly perturbed fourth-order problem in two dimensions. *Advances in Computational Mathematics*, 45(2): 1105–1128, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9646-0`.

Mahata:2022:NDO

[MS22] Shantiram Mahata and Rajen Kumar Sinha. Nonsmooth data optimal error estimates by energy arguments for subdiffusion equations with memory. *Advances in Computational Mathematics*, 48(4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09967-x`.

Mehra:2021:ASG

[MSL21] Mani Mehra, Ankita Shukla, and Günter Leugering. An adaptive spectral graph wavelet method for PDEs on networks. *Advances in Computational Mathematics*, 47 (1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09824-9`.

Mazroui:2002:ECS

[MSS02] A. Mazroui, D. Sbibih, and P. Sablonnière. Existence and construction of H_1-splines of class C^k on a three directional mesh. *Advances in Computational Mathematics*, 17(3):167–198, October 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016066825676`.

Maass:2014:SRU

[MSST14] Peter Maass, Chen Sagiv, Hans-Georg Stark, and Bruno Torresani. Signal representation, uncertainty principles and localization measures. *Advances in Computational Mathematics*, 40(3): 597–607, June 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9341-8`.

Mazroui:2005:SMS

[MST05] A. Mazroui, D. Sbibih, and A. Tijini. A simple method for smoothing functions and

compressing Hermite data. *Advances in Computational Mathematics*, 23(3):279–297, October 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1783-y`.

Ma:2022:SCF

[MSW+22] Xijun Ma, Chungen Shen, Li Wang, Lei-Hong Zhang, and Ren-Cang Li. A self-consistent-field iteration for MAXBET with an application to multi-view feature extraction. *Advances in Computational Mathematics*, 48 (2):??, April 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09929-3`.

Micchelli:2013:PAL

[MSXZ13] Charles A. Micchelli, Lixin Shen, Yuesheng Xu, and Xueying Zeng. Proximity algorithms for the L1/TV image denoising model. *Advances in Computational Mathematics*, 38(2):401–426, February 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9243-y`.

Mao:2006:AFE

[MSZ06] Dong Mao, Lihua Shen, and Aihui Zhou. Adaptive finite element algorithms for eigenvalue problems based on local averaging type a posteriori error estimates. *Advances in Computational Mathematics*, 25(1–3):135–160, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7617-0`.

Mehlum:1998:ISM

[MT98] Even Mehlum and Christian Tarrou. Invariant smoothness measures for surfaces. *Advances in Computational Mathematics*, 8(1–2):49–63, January 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018931910836`.

Miao:2026:REB

[MT26] Cun-Qiang Miao and Xue-Yuan Tan. On randomized explicit block Kaczmarz method for solving large linear systems. *Advances in Computational Mathematics*, 52(2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10301-y`.

Muoi:2021:EOF

[MTH21] Pham Quy Muoi, Wee Chin Tan, and Viet Ha Hoang.

Essentially optimal finite elements for multiscale elliptic eigenvalue problems. *Advances in Computational Mathematics*, 47(6):??, December 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09903-5`.

Mikula:2014:NTS

[MU14] Karol Mikula and Jozef Urbán. A new tangentially stabilized 3D curve evolution algorithm and its application in virtual colonoscopy. *Advances in Computational Mathematics*, 40(4):819–837, August 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9328-x`.

Muir:1999:ODC

[Mui99] P. H. Muir. Optimal discrete and continuous mono-implicit Runge–Kutta schemes for BVODEs. *Advances in Computational Mathematics*, 10(2):135–167, February 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018926631734`.

Muradova:2008:SMN

[Mur08] Aliki D. Muradova. The spectral method and numerical continuation algorithm for the von Kármán problem with postbuckling behaviour of solutions. *Advances in Computational Mathematics*, 29(2):179–206, August 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9050-7`.

Mason:1999:CPM

[MV99] J. C. Mason and E. Venturino. A Chebyshev polynomial method for line integrals with singularities. *Advances in Computational Mathematics*, 10(2):187–208, February 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018978615805`.

Meister:2001:EPL

[MV01] Andreas Meister and Christof Vömel. Efficient preconditioning of linear systems arising from the discretization of hyperbolic conservation laws. *Advances in Computational Mathematics*, 14(1):49–73, January 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016645505973`.

Melenk:2001:RBP

[MW01] J. M. Melenk and B. I. Wohlmuth. On residual-

based a posteriori error estimation in *hp*–FEM. *Advances in Computational Mathematics*, 15(1–4):311–331, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014268310921`. *A posteriori* error estimation and adaptive computational methods.

Micchelli:2013:AAP

[MWW13] Charles A. Micchelli, Jianzhong Wang, and Yi Wang. On an asymptotic analysis of polynomial approximation to halfband filters. *Advances in Computational Mathematics*, 38(3):601–622, April 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9251-y`.

Ma:2023:MEC

[MWZZ23] Shu Ma, Jilu Wang, Mingyan Zhang, and Zhimin Zhang. Mass- and energy-conserving Gauss collocation methods for the nonlinear Schrödinger equation with a wave operator. *Advances in Computational Mathematics*, 49(6): ??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10077-5`.

Ma:2024:CEQ

[MX24] Xiaoxiao Ma and Yingqing Xiao. Computing eigenvalues of quasi-rational Said–Ball–Vandermonde matrices. *Advances in Computational Mathematics*, 50(5): ??, October 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10191-y`.

Melenk:2013:ARS

[MXO13] J. M. Melenk, C. Xenophontos, and L. Oberbroeckling. Analytic regularity for a singularly perturbed system of reaction–diffusion equations with multiple scales. *Advances in Computational Mathematics*, 39(2):367–394, August 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9284-x`.

Micchelli:2013:CHS

[MXY13] Charles A. Micchelli, Yuesheng Xu, and Bo Yu. On computing with the Hilbert spline transform. *Advances in Computational Mathematics*, 38 (3):623–646, April 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9252-x`.

Micchelli:2008:TIO

[MXZ08] Charles A. Micchelli, Yuesheng Xu, and Haizhang Zhang. On translation invariant operators which preserve the B-spline recurrence. *Advances in Computational Mathematics*, 28(2):157–169, February 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-006-9018-z`.

Mu:2017:SFE

[MY17] Lin Mu and Xiu Ye. A simple finite element method for the Stokes equations. *Advances in Computational Mathematics*, 43(6):1305–1324, December 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9526-z`.

Micchelli:2013:DR

[MZ13] Charles A. Micchelli and Tao Zhao. On discrete ℓ^1-regularization. *Advances in Computational Mathematics*, 38(2):441–454, February 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9247-7`.

Mao:2022:AFK

[MZ22] Tong Mao and Ding-Xuan Zhou. Approximation of functions from Korobov spaces by deep convolutional neural networks. *Advances in Computational Mathematics*, 48(6):??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09991-x`.

Nair:2012:QBC

[Nai12] M. Thamban Nair. Quadrature based collocation methods for integral equations of the first kind. *Advances in Computational Mathematics*, 36(2):315–329, February 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9196-1`.

Neytcheva:2011:FEB

[NBL11] Maya Neytcheva, Erik Bängtsson, and Elisabeth Linnér. Finite-element based sparse approximate inverses for block-factorized preconditioners. *Advances in Computational Mathematics*, 35(2–4):323–355, November 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9176-5`.

Vu:2013:SAD

[nCV13] B. ng Công Vũ. A split-

ting algorithm for dual monotone inclusions involving cocoercive operators. *Advances in Computational Mathematics*, 38(3): 667–681, April 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9254-8`.

Nees:1996:CAD

[Nee96] Manuela Nees. Chebyshev approximation by discrete superposition. application to neural networks. *Advances in Computational Mathematics*, 5(1):137–151, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124739`.

Nestler:2016:APT

[Nes16] Franziska Nestler. Automated parameter tuning based on RMS errors for nonequispaced FFTs. *Advances in Computational Mathematics*, 42(4):889–919, August 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9446-8`.

Newby:1996:JCH

[New96] J. C. Newby. John Crank: his association with Brunel University. *Advances in Computational Mathematics*, 6(1): ix–x, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). John Crank 80th birthday special issue.

Niyogi:1999:GBF

[NG99] Partha Niyogi and Federico Girosi. Generalization bounds for function approximation from scattered noisy data. *Advances in Computational Mathematics*, 10(1): 51–80, January 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018966213079`.

Nguyen:2026:IRF

[NH26] Van Dung Nguyen and Hoang Thi Kim Hoa. An inertial reflected-forward-backward splitting method for monotone inclusions with improved step size. *Advances in Computational Mathematics*, 52 (1):??, February 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10265-5`.

Niessen:1998:ENR

[Nie98] Gero Nießen. An explicit norm representation for the analysis of multilevel methods. *Advances in Computational Mathematics*, 9(3–4):311–335, November 1998.

CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018949809444`.

Nielsen:2007:PSS

[Nie07] Morten Nielsen. On polynomial symbols for subdivision schemes. *Advances in Computational Mathematics*, 27(2):195–209, August 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-7476-3`.

Nitsche:2022:CTR

[Nit22] Monika Nitsche. Corrected trapezoidal rule for near-singular integrals in axisymmetric Stokes flow. *Advances in Computational Mathematics*, 48(5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09973-z`.

Nikl:2019:WBL

[NKL+19] Jan Nikl, Milan Kuchařík, Jiří Limpouch, Richard Liska, and Stefan Weber. Wave-based laser absorption method for high-order transport-hydrodynamic codes. *Advances in Computational Mathematics*, 45(4):1953–1976, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09671-3`.

Noakes:1996:NCB

[Noa96] J. Lyle Noakes. Networks and closed balls. *Advances in Computational Mathematics*, 5(1):153–161, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124740`.

Noakes:1998:NCC

[Noa98] Lyle Noakes. Nonlinear corner-cutting. *Advances in Computational Mathematics*, 8(4):165–177, June 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018940112654`.

Noakes:2002:QIS

[Noa02] Lyle Noakes. Quadratic interpolation on spheres. *Advances in Computational Mathematics*, 17(4):385–395, November 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016277023669`.

Noakes:2006:DRC

[Noa06] Lyle Noakes. Duality and Riemannian cubics. *Advances in Computational*

Mathematics, 25(1–3):195–209, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7621-4`.

Noakes:2014:MAR

[Noa14] Lyle Noakes. Minimum L^∞ accelerations in Riemannian manifolds. *Advances in Computational Mathematics*, 40(4):839–863, August 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9329-9`.

Noelle:1995:CHO

[Noe95] Sebastian Noelle. Convergence of higher order finite volume schemes on irregular grids. *Advances in Computational Mathematics*, 3(3):197–218, April 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02431999`.

Novak:2000:HDI

[Nov00] Erich Novak. High dimensional integration. *Advances in Computational Mathematics*, 12(1):1–2, January 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018996514413`.

Navas-Palencia:2018:HPC

[NP18] Guillermo Navas-Palencia. High-precision computation of the confluent hypergeometric functions via Franklin–Friedman expansion. *Advances in Computational Mathematics*, 44(3):841–859, June 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9565-5`.

Nouy:2024:DBM

[NP24] Anthony Nouy and Alexandre Pasco. Dictionary-based model reduction for state estimation. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10129-4`.

Nasser:2022:PDN

[NRR+22] Mohamed Nasser, Oona Rainio, Antti Rasila, Matti Vuorinen, Terry Wallace, Hang Yu, and Xiaohui Zhang. Polycircular domains, numerical conformal mappings, and moduli of quadrilaterals. *Advances in Computational Mathematics*, 48(5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.`

springer.com/article/10.1007/s10444-022-09975-x.

Neamtu:2004:AOS

[NS04] Marian Neamtu and Larry L. Schumaker. On the approximation order of splines on spherical triangulations. *Advances in Computational Mathematics*, 21(1–2):3–20, July 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/B:ACOM.0000016430.93487.ec.

Needham:2021:SGC

[NS21] Tom Needham and Clayton Shonkwiler. Symplectic geometry and connectivity of spaces of frames. *Advances in Computational Mathematics*, 47(1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09842-7.

Nie:2024:NMF

[NSD24] Daxin Nie, Jing Sun, and Weihua Deng. Numerical methods for forward fractional Feynman–Kac equation. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10152-5.

Nouisser:2004:PBS

[NSS04] O. Nouisser, D. Sbibih, and P. Sablonnière. Pairs of B-splines with small support on the four-directional mesh generating a partition of unity. *Advances in Computational Mathematics*, 21(3–4): 317–355, October 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/B:ACOM.0000032048.57043.dc.

Narcowich:1998:SRS

[NSW98] F. J. Narcowich, N. Sivakumar, and J. D. Ward. Stability results for scattered-data interpolation on Euclidean spheres. *Advances in Computational Mathematics*, 8(4): 137–163, June 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018996230401.

Narcowich:2007:APR

[NSW07] Francis J. Narcowich, Xinping Sun, and Joseph D. Ward. Approximation power of RBFs and their associated SBFs: a connection. *Advances in Computational Mathematics*, 27(1): 107–124, July 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.

springer.com/article/10.1007/s10444-005-7506-1.

Nuyens:2016:RLR

[NSW16] Dirk Nuyens, Gowri Suryanarayana, and Markus Weimar. Rank-1 lattice rules for multivariate integration in spaces of permutation-invariant functions: error bounds and tractability. *Advances in Computational Mathematics*, 42(1):55–84, February 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-015-9411-6.

Nurnberger:2004:LIC

[NSZ04] Günther Nürnberger, Larry L. Schumaker, and Frank Zeilfelder. Lagrange interpolation by C^1 cubic splines on triangulated quadrangulations. *Advances in Computational Mathematics*, 21(3–4):357–380, October 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/B:ACOM.0000032044.49282.8a.

Ndjansi:2023:ECI

[NT23] Lionel Ouya Ndjansi and Laurent Tchoualag. An efficient computation of the inverse of the single layer matrix for the resolution of the linear elasticity problem in BEM. *Advances in Computational Mathematics*, 49(3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10039-x.

Novak:2017:COI

[NUWZ17] Erich Novak, Mario Ullrich, Henryk Woźniakowski, and Shun Zhang. Complexity of oscillatory integrals on the real line. *Advances in Computational Mathematics*, 43 (3):537–553, June 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9496-6.

Nicaise:2010:QED

[NV10] Serge Nicaise and Julie Valein. Quasi exponential decay of a finite difference space discretization of the 1-d wave equation by pointwise interior stabilization. *Advances in Computational Mathematics*, 32(3):303–334, April 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9108-1.

Narcowich:2004:PCA

[NW04] Francis J. Narcowich and Joseph D. Ward. Preface [Computational and approximation on the sphere]. *Advances in Computational*

Mathematics, 21(1–2):1–2, July 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/B:ACOM.0000016666.68274.5d.

Nannen:2022:CSI

[NW22] Lothar Nannen and Markus Wess. Complex-scaled infinite elements for resonance problems in heterogeneous open systems. *Advances in Computational Mathematics*, 48(2):??, April 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09923-1.

Nurnberger:2004:LIB

[NZ04] Günther Nürnberger and Frank Zeilfelder. Lagrange interpolation by bivariate C^1-splines with optimal approximation order. *Advances in Computational Mathematics*, 21(3–4):381–419, October 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/B:ACOM.0000032043.07621.62.

Noakes:2022:FGJ

[NZ22] Lyle Noakes and Erchuan Zhang. Finding geodesics joining given points. *Advances in Computational Mathematics*, 48(4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09966-y.

Ober-Blobaum:2015:CAH

[OBS15] Sina Ober-Blöbaum and Nils Saake. Construction and analysis of higher order Galerkin variational integrators. *Advances in Computational Mathematics*, 41(6):1391–1422, December 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-014-9394-8.

Ockendon:1996:RCG

[Ock96] J. R. Ockendon. The role of the Crank–Gupta model in the theory of free and moving boundary problems. *Advances in Computational Mathematics*, 6(1):281–293, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02127708. John Crank 80th birthday special issue.

ONeil:2018:SKI

[O'N18a] Michael O'Neil. Second-kind integral equations for the Laplace–Beltrami problem on surfaces in three dimensions.

Advances in Computational Mathematics, 44(5):1385–1409, October 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9587-7`.

Ottosen:2018:NAN

[ON18b] Emil Solsbæk Ottosen and Morten Nielsen. Nonlinear approximation with nonstationary Gabor frames. *Advances in Computational Mathematics*, 44(4):1183–1203, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9577-1`.

Onchis:2014:OFM

[Onc14] Darian M. Onchis. Optimized frames and multi-dimensional challenges in time-frequency analysis. *Advances in Computational Mathematics*, 40 (3):703–709, June 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9332-1`.

ORiordan:2011:PUN

[OP11] E. O'Riordan and M. L. Pickett. A parameter-uniform numerical method for a singularly perturbed two parameter elliptic problem. *Advances in Computational Mathematics*, 35 (1):57–82, July 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9164-1`.

Opfer:2006:MK

[Opf06] Roland Opfer. Multiscale kernels. *Advances in Computational Mathematics*, 25 (4):357–380, November 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7622-3`.

ORiordan:2009:NAS

[OS09] Eugene O'Riordan and Martin Stynes. Numerical analysis of a strongly coupled system of two singularly perturbed convection–diffusion problems. *Advances in Computational Mathematics*, 30(2):101–121, February 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9058-z`.

Oswald:2004:SNM

[Osw04] Peter Oswald. Smoothness of nonlinear median-interpolation subdivision. *Advances in Computational Mathematics*, 20(4):401–423, May 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http:`

//link.springer.com/article/10.1023/A:1027315032100.

Pan:1995:AAA

[Pan95] Victor Y. Pan. An algebraic approach to approximate evaluation of a polynomial on a set of real points. *Advances in Computational Mathematics*, 3(1–2): 41–58, January 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02431995.

Park:2020:ODD

[Par20] Jongho Park. An overlapping domain decomposition framework without dual formulation for variational imaging problems. *Advances in Computational Mathematics*, 46 (4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09799-7.

Park:2022:FGM

[Par22] Jongho Park. Fast gradient methods for uniformly convex and weakly smooth problems. *Advances in Computational Mathematics*, 48 (3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09943-5.

Paulsen:2019:TCB

[Pau19] William Paulsen. Tetration for complex bases. *Advances in Computational Mathematics*, 45(1):243–267, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9615-7.

Paulsen:2026:AFF

[Pau26] William Paulsen. Analyzing the function $z \uparrow\uparrow a$ for fractional a. *Advances in Computational Mathematics*, 52(2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-026-10300-z.

Paulsen:2017:SCP

[PC17] William Paulsen and Samuel Cowgill. Solving $F(z+1) = b^{F(z)}$ in the complex plane. *Advances in Computational Mathematics*, 43(6):1261–1282, December 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-017-9524-1.

Pericleous:1996:FSN

[PCM+96] K. A. Pericleous, M. Cross, G. Moran, P. Chow, and K. S. Chan. Free surface Navier–Stokes flows with simultaneous heat transfer

and solidification/melting. *Advances in Computational Mathematics*, 6(1):295–308, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127709`. John Crank 80th birthday special issue.

Przybilla:2024:SAD

[PDB24] Jennifer Przybilla, Igor Pontes Duff, and Peter Benner. Semi-active damping optimization of vibrational systems using the reduced basis method. *Advances in Computational Mathematics*, 50(3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10141-8`.

Peixin:2005:CCI

[Pei05] Ye Peixin. Computational complexity of the integration problem for anisotropic classes. *Advances in Computational Mathematics*, 23 (4):375–392, November 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1830-8`.

Penzl:1998:NSG

[Pen98] Thilo Penzl. Numerical solution of generalized Lyapunov equations. *Advances in Computational Mathematics*, 8(1–2):33–48, January 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018979826766`.

Pena:2011:DDS

[Peñ11] Juan Manuel Peña. Diagonal dominance, Schur complements and some classes of H-matrices and P-matrices. *Advances in Computational Mathematics*, 35(2–4):357–373, November 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9160-5`.

Peralta:2022:EEM

[Per22] Gilbert Peralta. Error estimates for mixed and hybrid FEM for elliptic optimal control problems with penalizations. *Advances in Computational Mathematics*, 48 (6):??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09980-0`.

Peters:1996:IRC

[Pet96] Jörg Peters. Interpolation regions for convex cubic curve segments. *Advances in Computational Mathematics*, 6(1): 87–96, December 1996. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127698`.

Petras:2000:SCE

[Pet00] Knut Petras. On the Smolyak cubature error for analytic functions. *Advances in Computational Mathematics*, 12 (1):71–93, January 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018904816230`. High dimensional integration.

Petzoldt:2002:PEE

[Pet02] Martin Petzoldt. *A posteriori* error estimators for elliptic equations with discontinuous coefficients. *Advances in Computational Mathematics*, 16(1):47–75, January 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014221125034`.

Pu:2023:NSF

[PF23] Tianyi Pu and Marco Fasondini. The numerical solution of fractional integral equations via orthogonal polynomials in fractional powers. *Advances in Computational Mathematics*, 49(1): ??, February 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-10009-9`.

Pelosi:2005:GHI

[PFMS05] Francesca Pelosi, Rida T. Farouki, Carla Manni, and Alessandra Sestini. Geometric Hermite interpolation by spatial Pythagorean-hodograph cubics. *Advances in Computational Mathematics*, 22(4):325–352, May 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-003-2599-x`.

Pottmann:2010:EOM

[PGB10] Helmut Pottmann, Philipp Grohs, and Bernhard Blaschitz. Edge offset meshes in Laguerre geometry. *Advances in Computational Mathematics*, 33(1):45–73, July 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9119-6`.

Peherstorfer:2015:RMS

[PGB15] Benjamin Peherstorfer, Pablo Gómez, and Hans-Joachim Bungartz. Reduced models for sparse grid discretizations of the multi-asset Black–Scholes equation. *Advances in Computational Mathematics*, 41(5):1365–1389, October 2015. CO-

DEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-015-9421-4.

Pottmann:2009:LMS

[PGM09] Helmut Pottmann, Philipp Grohs, and Niloy J. Mitra. Laguerre minimal surfaces, isotropic geometry and linear elasticity. *Advances in Computational Mathematics*, 31(4):391–419, November 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9076-5.

Pinkus:2004:SPD

[Pin04] Allan Pinkus. Strictly positive definite functions on a real inner product space. *Advances in Computational Mathematics*, 20(4):263–271, May 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1027362918283.

Pitolli:2016:BSN

[Pit16] Francesca Pitolli. Bell-shaped nonstationary refinable ripplets. *Advances in Computational Mathematics*, 42(6):1427–1451, December 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9469-9.

PazCalvo:2001:SEM

[PIZ01] Mari Paz Calvo, Arieh Iserles, and Antonella Zanna. Semi-explicit methods for isospectral flows. *Advances in Computational Mathematics*, 14(1):1–24, January 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1016635812817.

Puligilla:2020:AEE

[PJ20] Shivakanth Chary Puligilla and Balaji Jayaraman. Assessment of end-to-end and sequential data-driven learning for non-intrusive modeling of fluid flows. *Advances in Computational Mathematics*, 46(4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09753-7.

Prautzsch:1994:CSD

[PK94] Hartmut Prautzsch and Leif Kobbelt. Convergence of subdivision and degree elevation. *Advances in Computational Mathematics*, 2(1):143–154, January 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02519040.

Piquemal:2005:NWP

[PL05] Anne-Sophie Piquemal and Jacques Liandrat. A new wavelet preconditioner for finite difference operators. *Advances in Computational Mathematics*, 22(2):125–163, February 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1111-6`.

Plantevin:1995:WIM

[Pla95] Frédérique Plantevin. Wavelets on irregular meshes. *Advances in Computational Mathematics*, 4(1–2):293–329, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02123479`.

Plaskota:2000:EDS

[Pla00] Leszek Plaskota. The exponent of discrepancy of sparse grids is at least 2.1933. *Advances in Computational Mathematics*, 12 (1):3–24, January 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018900715321`. High dimensional integration.

Plato:2012:RPC

[Pla12] Robert Plato. The regularizing properties of the composite trapezoidal method for weakly singular Volterra integral equations of the first kind. *Advances in Computational Mathematics*, 36(2): 331–351, February 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9217-0`.

Plonka:1995:TSS

[Plo95] Gerlind Plonka. Two-scale symbol and autocorrelation symbol for B-splines with multiple knots. *Advances in Computational Mathematics*, 3(1–2):1–22, January 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02431993`.

Perez-Lopez:2022:NAC

[PLRGVR22] Jhean E. Pérez-López, Diego A. Rueda-Gómez, and Élder J. Villamizar-Roa. Numerical analysis of a chemotaxis model for tumor invasion. *Advances in Computational Mathematics*, 48 (3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09949-z`.

Pandey:2017:HAS

[PM17] Rishi Kumar Pandey and Hradyesh Kumar Mishra.

Homotopy analysis Sumudu transform method for time-fractional third order dispersive partial differential equation. *Advances in Computational Mathematics*, 43(2): 365–383, April 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9489-5`.

Peherstorfer:2019:TBM

[PM19] Benjamin Peherstorfer and Youssef Marzouk. A transport-based multifidelity preconditioner for Markov chain Monte Carlo. *Advances in Computational Mathematics*, 45(5–6):2321–2348, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09711-y`.

Papadopoulos:2024:SSM

[PO24] Ioannis P. A. Papadopoulos and Sheehan Olver. A sparse spectral method for fractional differential equations in one-spatial dimension. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10164-1`.

Pottmann:1995:CDR

[Pot95] Helmut Pottmann. Curve design with rational Pythagorean-hodograph curves. *Advances in Computational Mathematics*, 3(1–2):147–170, January 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF03028365`.

Potts:2004:ASD

[Pot04] Daniel Potts. Approximation of scattered data by trigonometric polynomials on the torus and the 2-sphere. *Advances in Computational Mathematics*, 21 (1–2):21–36, July 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/B:ACOM.0000016432.97333.e8`.

Pouly:1997:AFE

[PP97] L. Pouly and J. Pousin. Adaptive finite element for semi-linear convection–diffusion problems. *Advances in Computational Mathematics*, 7(3): 235–259, May 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018946919497`.

Poveda:2023:PEE

[PP23] Leonardo A. Poveda and Pe-

dro Peixoto. On pointwise error estimates for Voronoï-based finite volume methods for the Poisson equation on the sphere. *Advances in Computational Mathematics*, 49(3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10041-3`.

Pauly:2024:FAS

[PP24] Dirk Pauly and Rainer Picard. Families of annihilating skew-selfadjoint operators and their connection to Hilbert complexes. *Advances in Computational Mathematics*, 50 (5):??, October 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10184-x`.

Pintore:2021:ECB

[PPH+21] Moreno Pintore, Federico Pichi, Martin Hess, Gianluigi Rozza, and Claudio Canuto. Efficient computation of bifurcation diagrams with a deflated approach to reduced basis spectral element method. *Advances in Computational Mathematics*, 47(1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09827-6`.

Prautzsch:1999:DEP

[PR99] Hartmut Prautzsch and Ulrich Reif. Degree estimates for C^k-piecewise polynomial subdivision surfaces. *Advances in Computational Mathematics*, 10(2):209–217, February 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018922530826`.

Pilarczyk:2015:CCH

[PR15] Paweł Pilarczyk and Pedro Real. Computation of cubical homology, cohomology, and (co)homological operations via chain contraction. *Advances in Computational Mathematics*, 41(1): 253–275, February 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9356-1`.

Petersen:2019:APH

[PR19] Philipp Petersen and Mones Raslan. Approximation properties of hybrid shearlet-wavelet frames for Sobolev spaces. *Advances in Computational Mathematics*, 45(3): 1581–1606, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09679-9`.

Pagano:2026:SPM

[PR26] Giovanni Pagano and Luis Rández. $L(\theta)$-stable peer methods with reused stages for advection–diffusion–reaction problems. *Advances in Computational Mathematics*, 52 (3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10315-6`.

Prautzsch:1998:SSS

[Pra98] Hartmut Prautzsch. Smoothness of subdivision surfaces at extraordinary points. *Advances in Computational Mathematics*, 9(3–4):377–389, November 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018945708536`.

Pradovera:2023:TCG

[Pra23] Davide Pradovera. Toward a certified greedy Loewner framework with minimal sampling. *Advances in Computational Mathematics*, 49 (6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10091-7`.

Prevost:1994:APA

[Pré94] Marc Prévost. Acceleration property for the E-algorithm and an application to the summation of series. *Advances in Computational Mathematics*, 2(3): 319–341, April 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02521114`.

Peiris:2024:ANN

[PRS24] Vinesha Peiris, Vera Roshchina, and Nadezda Sukhorukova. Artificial neural networks with uniform norm-based loss functions. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10124-9`.

Prossdorf:1998:MAM

[PS98] Siegfried Prössdorf and Jörg Schult. Multiwavelet approximation methods for pseudodifferential equations on curves. Stability and convergence analysis. *Advances in Computational Mathematics*, 9(1–2):145–171, September 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018977120831`. Numerical treatment of boundary integral equations.

Pousin:2005:PEE

[PS05] J. Pousin and T. Sassi. *A posteriori* error estimates and domain decomposition with nonmatching grids. *Advances in Computational Mathematics*, 23(3):241–263, October 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1779-7`.

Pena:2007:EPR

[PS07] Juan Manuel Peña and Tomas Sauer. Efficient polynomial reduction. *Advances in Computational Mathematics*, 26(1–3):323–336, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7208-0`.

Patel:2023:RSS

[PS23] Dhiraj Patel and S. Sivananthan. Random sampling of signals concentrated on compact set in localized reproducing kernel subspace of $L^p(\mathbf{R}^n)$. *Advances in Computational Mathematics*, 49 (6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10075-7`.

Pradhan:2011:RTN

[PSNP11] Debasish Pradhan, Baskar Shalini, Neela Nataraj, and Amiya K. Pani. A Robin-type non-overlapping domain decomposition procedure for second order elliptic problems. *Advances in Computational Mathematics*, 34(4): 339–368, May 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9157-0`.

Plonka:1995:CWB

[PST95] Gerlind Plonka, Kathi Selig, and Manfred Tasche. On the construction of wavelets on a bounded interval. *Advances in Computational Mathematics*, 4(1–2):357–388, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02123481`.

Plonka:2008:NSB

[PST08] Gerlind Plonka, Hagen Schumacher, and Manfred Tasche. Numerical stability of biorthogonal wavelet transforms. *Advances in Computational Mathematics*, 29(1):1–25, July 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9034-7`.

Pietschmann:2024:NIA

[PSW24] Jan-Frederik Pietschmann, Ailyn Stötzner, and Max Winkler. Numerical investigation of agent-controlled pedestrian dynamics using a structure-preserving finite volume scheme. *Advances in Computational Mathematics*, 50(1):??, February 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10098-0`.

Paluszynski:2003:TFW

[PŠWX03] Maciej Paluszyński, Hrvoje Šikić, Guido Weiss, and Shaoliang Xiao. Tight frame wavelets, their dimension functions, MRA tight frame wavelets and connectivity properties. *Advances in Computational Mathematics*, 18(2–4):297–327, February 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021312110549`. Frames.

Potts:2021:CWF

[PT21] Daniel Potts and Manfred Tasche. Continuous window functions for NFFT. *Advances in Computational Mathematics*, 47 (4):??, August 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09873-8`.

Pham:2012:OAS

[PTC12] Duong Pham, Thanh Tran, and Simon Crothers. An overlapping additive Schwarz preconditioner for the Laplace–Beltrami equation using spherical splines. *Advances in Computational Mathematics*, 37(1):93–121, July 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9200-9`.

Pottmann:1994:HSE

[PW94] Helmut Pottmann and Michael G. Wagner. Helix splines as an example of affine Tchebycheffian splines. *Advances in Computational Mathematics*, 2(1):123–142, January 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02519039`.

Pottmann:2008:FGC

[PW08] Helmut Pottmann and Johannes Wallner. The focal geometry of circular and conical meshes. *Advances in Computational Mathematics*, 29(3): 249–268, October 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9045-4`.

Potts:2024:VTC

[PW24] Daniel Potts and Laura Weidensager. Variable transformations in combination with wavelets and ANOVA for high-dimensional approximation. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10147-2`.

Pang:2020:CSP

[PWL20] Tongyao Pang, Chunlin Wu, and Zhifang Liu. A cubic spline penalty for sparse approximation under tight frame balanced model. *Advances in Computational Mathematics*, 46 (2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09786-y`.

Plonka:2016:RBT

[PZ16] Gerlind Plonka and Yi Zheng. Relation between total variation and persistence distance and its application in signal processing. *Advances in Computational Mathematics*, 42(3):651–674, June 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9438-8`.

Qin:2012:ISP

[QC12] Hai-Hua Qin and David Colton. The inverse scattering problem for cavities with impedance boundary condition. *Advances in Computational Mathematics*, 36(2): 157–174, February 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9179-2`.

Qiu:2023:OEE

[Qiu23] Wenlin Qiu. Optimal error estimate of an accurate second-order scheme for Volterra integrodifferential equations with tempered multi-term kernels. *Advances in Computational Mathematics*, 49 (3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10050-2`.

Qi:2025:DWG

[QL25] Wenya Qi and Kaifang Liu. Decoupled weak Galerkin finite element method for Maxwell's equations. *Advances in Computational Mathematics*, 51(4):??, August 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/`

article/10.1007/s10444-025-10243-x.

Qian:2011:AFS

[QW11] Tao Qian and Yan-Bo Wang. Adaptive Fourier series — a variation of greedy algorithm. *Advances in Computational Mathematics*, 34(3): 279–293, April 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-010-9153-4.

Qu:2024:MPU

[QWS24] Wei Qu, Yanbo Wang, and Xiaoyun Sun. Matching pursuit with unbounded parameter domains. *Advances in Computational Mathematics*, 50(1):??, February 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10097-1.

Qian:2010:OBN

[QWXZ10] Tao Qian, Rui Wang, Yuesheng Xu, and Haizhang Zhang. Orthonormal bases with nonlinear phases. *Advances in Computational Mathematics*, 33(1):75–95, July 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-009-9120-0.

Qiao:2021:FAO

[QX21] Leijie Qiao and Da Xu. A fast ADI orthogonal spline collocation method with graded meshes for the two-dimensional fractional integro-differential equation. *Advances in Computational Mathematics*, 47(5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09884-5.

Qin:2026:SSP

[QYY26] Xueyu Qin, Jian Yu, and Chao Yan. Strong stability preserving two-derivative multistep Runge–Kutta methods. *Advances in Computational Mathematics*, 52 (4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-026-10306-7.

Qi:2023:EAS

[QZX23] Xiao Qi, Yanrong Zhang, and Chuanju Xu. An efficient approximation to the stochastic Allen–Cahn equation with random diffusion coefficient field and multiplicative noise. *Advances in Computational Mathematics*, 49(5):??, October 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.

springer.com/article/10.1007/s10444-023-10072-w.

Romero:2009:GAP

[RAB+09] Juan R. Romero, Simon K. Alexander, Shikha Baid, Saurabh Jain, and Manos Papadakis. The geometry and the analytic properties of isotropic multiresolution analysis. *Advances in Computational Mathematics*, 31(1–3):283–328, October 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9111-6.

Ramaswami:1995:PCS

[Ram95] G. Ramaswami. Perturbed collocation and symplectic RKN methods. *Advances in Computational Mathematics*, 3(1–2):23–40, January 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02431994.

Ramos:2018:UHO

[Ram18] Alberto Gil C. P. Ramos. Uniform and high-order discretization schemes for Sturm–Liouville problems via Fer streamers. *Advances in Computational Mathematics*, 44(2):395–421, April 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-017-9547-7.

Rauhut:2005:BTL

[Rau05] Holger Rauhut. Best time localized trigonometric polynomials and wavelets. *Advances in Computational Mathematics*, 22(1):1–20, January 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-005-7411-7.

Rodriguez:2018:ECC

[RBGS18] Ana Alonso Rodríguez, Enrico Bertolazzi, Riccardo Ghiloni, and Ruben Specogna. Efficient construction of 2-chains representing a basis of $H_2(\overline{\Omega}, \partial\Omega; \mathbf{Z})$. *Advances in Computational Mathematics*, 44(5):1411–1440, October 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9588-6.

Ramos:2023:NED

[RCJ+23] A. J. A. Ramos, A. D. S. Campelo, D. S. Almeida Júnior, M. M. Freitas, and R. C. Barbosa. Numerical exponential decay of thermoelastic waves connected in parallel. *Advances in Computational Mathematics*, 49

(3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10027-1.

Reiter:2024:BTE

[RDEG24] Sean Reiter, Tobias Damm, Mark Embree, and Serkan Gugercin. On the balanced truncation error bound and sign parameters from arrowhead realizations. *Advances in Computational Mathematics*, 50(1):??, February 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10105-y.

Reichel:1993:CPO

[Rei93] Lothar Reichel. Construction of polynomials that are orthogonal with respect to a discrete bilinear form. *Advances in Computational Mathematics*, 1(2): 241–258, June 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02071388.

Reif:2024:SRB

[Rei24] Ulrich Reif. Sobolev regularity of bivariate isogeometric finite element spaces in case of a geometry map with degenerate corner. *Advances in Computational Mathematics*, 50(6): ??, December 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10203-x.

Remogna:2012:BCS

[Rem12] Sara Remogna. Bivariate C^2 cubic spline quasi-interpolants on uniform Powell–Sabin triangulations of a rectangular domain. *Advances in Computational Mathematics*, 36(1):39–65, January 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9178-3.

Ren:2009:CWT

[Ren09] Jian Ren. A cryptographic watermarking technique for multimedia signals. *Advances in Computational Mathematics*, 31(1–3):267–281, October 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9096-1.

Rabin:2019:TDL

[RF19] Neta Rabin and Dalia Fishelov. Two directional Laplacian pyramids with application to data imputation. *Advances in Computational*

Mathematics, 45(4):2123–2146, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09697-7`.

Rand:2013:IEE

[RGB13] Alexander Rand, Andrew Gillette, and Chandrajit Bajaj. Interpolation error estimates for mean value coordinates over convex polygons. *Advances in Computational Mathematics*, 39(2):327–347, August 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9282-z`.

Rodriguez:2018:IMR

[RGB18] Andrea Carracedo Rodriguez, Serkan Gugercin, and Jeff Borggaard. Interpolatory model reduction of parameterized bilinear dynamical systems. *Advances in Computational Mathematics*, 44(6):1887–1916, December 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9611-y`.

Raus:2012:QOR

[RH12] Toomas Raus and Uno Hämarik. On the quasi-optimal rules for the choice of the regularization parameter in case of a noisy operator. *Advances in Computational Mathematics*, 36(2):221–233, February 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9203-6`.

Redeker:2015:PER

[RH15] Magnus Redeker and Bernard Haasdonk. A POD–EIM reduced two-scale model for crystal growth. *Advances in Computational Mathematics*, 41(5):987–1013, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9367-y`.

Rong:2017:NAS

[RHZ17] Yao Rong, Yanren Hou, and Yuhong Zhang. Numerical analysis of a second order algorithm for simplified magnetohydrodynamic flows. *Advances in Computational Mathematics*, 43(4):823–848, August 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9508-6`.

Rippa:1999:ASG

[Rip99] Shmuel Rippa. An algorithm for selecting a good value

for the parameter c in radial basis function interpolation. *Advances in Computational Mathematics*, 11(2–3):193–210, November 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018975909870`. Radial basis functions and their applications.

Reddy:2000:ADO

[RJ00] Muni V. Reddy and Stephen Joe. An average discrepancy for optimal vertex-modified number-theoretic rules. *Advances in Computational Mathematics*, 12(1):59–69, January 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018952732160`. High dimensional integration.

Rolania:2007:ABS

[RL07] D. Barrios Rolanía and G. López Lagomasino. Asymptotic behavior of solutions of general three term recurrence relations. *Advances in Computational Mathematics*, 26(1–3):9–37, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-4137-x`.

Roanes-Lozano:2019:PFA

[RLGGAV19] Eugenio Roanes-Lozano, José Luis Galán-García, and Gabriel Aguilera-Venegas. A prototype of a functional approach to personalized menus generation using set operations. *Advances in Computational Mathematics*, 45(4):1881–1895, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09665-1`.

Romani:2019:ATP

[RM19] Lucia Romani and Francesca Montagner. Algebraic–trigonometric Pythagorean–hodograph space curves. *Advances in Computational Mathematics*, 45(1):75–98, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9606-8`.

Rodriguez:2019:MAO

[RMCCG+19] C. Destenave Rodriguez, Javier Morales-Castillo, José Roberto Cantú-González, F-Javier Almaguer, and J. M. Martinez. Mathematical analysis to optimize crystal growth. *Advances in Computational Mathematics*, 45(4):2083–2096, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.`

springer.com/article/10.1007/s10444-019-09686-w.

Raina:2026:WGM

[RNT26] Aayushman Raina, Srinivasan Natesan, and Suayip Toprakseven. A weak Galerkin mixed finite element method for singularly perturbed biharmonic problems on a layer-adapted mesh in 2D. *Advances in Computational Mathematics*, 52 (4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-026-10314-7.

Roberts:1998:VA

[Rob98] D. E. Roberts. On a vector q–d algorithm. *Advances in Computational Mathematics*, 8(4):193–219, June 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018944213562.

Rux:2026:SDK

[RQS26] Nicolaj Rux, Michael Quellmalz, and Gabriele Steidl. Smoothed distance kernels for MMDs and applications in Wasserstein gradient flows. *Advances in Computational Mathematics*, 52 (2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-026-10289-5.

Riemenschneider:1999:GRB

[RS99] S. D. Riemenschneider and N. Sivakumar. Gaussian radial-basis functions: cardinal interpolation of l^p and power-growth data. *Advances in Computational Mathematics*, 11(2–3):229–251, November 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018980110778. Radial basis functions and their applications.

Reif:2001:CIS

[RS01] Ulrich Reif and Peter Schröder. Curvature integrability of subdivision surfaces. *Advances in Computational Mathematics*, 14(2):157–174, February 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1016685104156.

Rekatsinas:2019:OAT

[RS19] Nikolaos Rekatsinas and Rob Stevenson. An optimal adaptive tensor product wavelet solver of a space-time FOSLS formulation of parabolic evolution problems. *Advances in Computational Mathematics*, 45(2): 1031–1066, April 2019. CO-

DEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9644-2`.

Romani:2014:ATP

[RSA14] Lucia Romani, Laura Saini, and Gudrun Albrecht. Algebraic–trigonometric Pythagorean-hodograph curves and their use for Hermite interpolation. *Advances in Computational Mathematics*, 40(5–6):977–1010, December 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9338-8`.

Ricaud:2014:OCG

[RST+14] Benjamin Ricaud, Guillaume Stempfel, Bruno Torrésani, Christoph Wiesmeyr, Hélène Lachambre, and Darian Onchis. An optimally concentrated Gabor transform for localized time-frequency components. *Advances in Computational Mathematics*, 40(3):683–702, June 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9337-9`.

Rohwedder:2011:PPI

[RSZ11] Thorsten Rohwedder, Reinhold Schneider, and Andreas Zeiser. Perturbed preconditioned inverse iteration for operator eigenvalue problems with applications to adaptive wavelet discretization. *Advances in Computational Mathematics*, 34(1):43–66, January 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9141-8`.

Ricaud:2014:SUP

[RT14] Benjamin Ricaud and Bruno Torrésani. A survey of uncertainty principles and some signal processing applications. *Advances in Computational Mathematics*, 40(3):629–650, June 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9323-2`.

Rapun:2021:ASM

[RTV21] M.-L. Rapún, F. Terragni, and J. M. Vega. Adaptive sampling and modal expansions in pattern-forming systems. *Advances in Computational Mathematics*, 47(4):??, August 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09870-x`.

Reif:2021:CFG

[RW21] Ulrich Reif and Andreas Weinmann. Clothoid fitting

and geometric Hermite subdivision. *Advances in Computational Mathematics*, 47 (4):??, August 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09876-5`.

Rim:2026:LRN

[RW26] Donsub Rim and Gerrit Welper. A low-rank neural representation of entropy solutions. *Advances in Computational Mathematics*, 52 (1):??, February 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10274-4`.

Rettberg:2024:IPE

[RWB+24] Johannes Rettberg, Dominik Wittwar, Patrick Buchfink, Robin Herkert, Jörg Fehr, and Bernard Haasdonk. Improved a posteriori error bounds for reduced port-Hamiltonian systems. *Advances in Computational Mathematics*, 50 (5):??, October 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10195-8`.

Rong:2013:AWC

[RWT13] Zhijian Rong, Li-Lian Wang, and Xue-Cheng Tai. Adaptive wavelet collocation methods for image segmentation using TV–Allen–Cahn type models. *Advances in Computational Mathematics*, 38(1): 101–131, January 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9227-y`.

Rim:2013:GPR

[RY13] Kyung Soo Rim and Beong In Yun. Gibbs phenomenon removal by adding Heaviside functions. *Advances in Computational Mathematics*, 38 (4):683–699, May 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9255-7`.

Richardson:2016:MIR

[RY16] Casey L. Richardson and Laurent Younes. Metamorphosis of images in reproducing kernel Hilbert spaces. *Advances in Computational Mathematics*, 42 (3):573–603, June 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9435-y`.

Rydel:2019:NIO

[Ryd19] Marek Rydel. New integer-order approximations of discrete-time non-commensurate fractional-order systems us-

ing the cross Gramian. *Advances in Computational Mathematics*, 45(2):631–653, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9633-5.

Rynne:2000:CGM

[Ryn00] Bryan P. Rynne. Convergence of Galerkin method solutions of the integral equation for thin wire antennas. *Advances in Computational Mathematics*, 12(2–3):251–259, February 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018956800300.

Rude:1998:MPE

[RZ98] Ulrich Rüde and Aihui Zhou. Multi-parameter extrapolation methods for boundary integral equations. *Advances in Computational Mathematics*, 9(1–2):173–190, September 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018989523557. Numerical treatment of boundary integral equations.

Rieger:2010:SII

[RZ10] Christian Rieger and Barbara Zwicknagl. Sampling inequalities for infinitely smooth functions, with applications to interpolation and machine learning. *Advances in Computational Mathematics*, 32(1):103–129, January 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9089-0; http://link.springer.com/content/pdf/10.1007/s10444-008-9089-0.pdf.

Sablonniere:2004:BTB

[Sab04] Paul Sablonnière. Bernstein-type bases and corner cutting algorithms for C^1 Merrien's curves. *Advances in Computational Mathematics*, 20(1–3):229–246, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1025870005361. Approximation and applications.

Salam:1998:FVO

[Sal98] A. Salam. Formal vector orthogonal polynomials. *Advances in Computational Mathematics*, 8(4):267–289, June 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018952415379.

Sangawi:2015:SSM

[San15] Ali W. K. Sangawi. Straight slits map and its inverse of bounded multiply connected regions. *Advances in Computational Mathematics*, 41(2): 439–455, April 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9368-x`.

Sauer:1995:CAM

[Sau95] Thomas Sauer. Computational aspects of multivariate polynomial interpolation. *Advances in Computational Mathematics*, 3(3): 219–237, April 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02432000`.

Sauer:2006:DMR

[Sau06] Thomas Sauer. Differentiability of multivariate refinable functions and factorization. *Advances in Computational Mathematics*, 25(1–3):211–235, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7635-y`.

Stein:2022:QFS

[SB22] David B. Stein and Alex H. Barnett. Quadrature by fundamental solutions: kernel-independent layer potential evaluation for large collections of simple objects. *Advances in Computational Mathematics*, 48 (5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09971-1`.

Schubel:2024:APW

[SBEH24] Mark D. Schubel, Daniel Berwick-Evans, and Anil N. Hirani. Averaging property of wedge product and naturality in discrete exterior calculus. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10179-8`.

Sorgente:2022:RMQ

[SBMS22] T. Sorgente, S. Biasotti, G. Manzini, and M. Spagnuolo. The role of mesh quality and mesh quality indicators in the virtual element method. *Advances in Computational Mathematics*, 48 (1):??, February 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09913-3`.

Stabile:2019:ROV

[SBZR19] Giovanni Stabile, Francesco

Ballarin, Giacomo Zuccarino, and Gianluigi Rozza. A reduced order variational multiscale approach for turbulent flows. *Advances in Computational Mathematics*, 45(5–6):2349–2368, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09712-x`.

Shih:2008:EPG

[SC08] Shagi-Di Shih and Shue-Sum Chow. Equivalence of n-point Gauss–Chebyshev rule and $4n$-point midpoint rule in computing the period of a Lotka–Volterra system. *Advances in Computational Mathematics*, 28(1): 63–79, January 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-006-9013-4`.

Schaback:1995:EEC

[Sch95] Robert Schaback. Error estimates and condition numbers for radial basis function interpolation. *Advances in Computational Mathematics*, 3(3): 251–264, April 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02432002`.

Schumaker:2004:PMS

[Sch04] Larry L. Schumaker. Preface [Multivariate splines]. *Advances in Computational Mathematics*, 21(3–4):221–222, October 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/B:ACOM.0000032130.41067.34`.

Schaback:2009:SLE

[Sch09] Robert Schaback. Solving the Laplace equation by meshless collocation using harmonic kernels. *Advances in Computational Mathematics*, 31(4):457–470, November 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9078-3; http://link.springer.com/content/pdf/10.1007/s10444-008-9078-3.pdf`.

Schaback:2011:MWF

[Sch11a] Robert Schaback. The missing Wendland functions. *Advances in Computational Mathematics*, 34(1):67–81, January 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9142-7; http://link.springer.com/`

content/pdf/10.1007/s10444-009-9142-7.pdf.

Scheuerer:2011:APS

[Sch11b] Michael Scheuerer. An alternative procedure for selecting a good value for the parameter c in RBF-interpolation. *Advances in Computational Mathematics*, 34(1):105–126, January 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-010-9146-3; http://link.springer.com/content/pdf/10.1007/s10444-010-9146-3.pdf.

Schaback:2015:CTC

[Sch15] Robert Schaback. A computational tool for comparing all linear PDE solvers: error-optimal methods are meshless. *Advances in Computational Mathematics*, 41(2):333–355, April 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-014-9360-5.

Schlegel:2021:WTR

[Sch21] Kevin Schlegel. When is there a representer theorem? *Advances in Computational Mathematics*, 47(4):??, August 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09877-4.

Schaback:2023:SEI

[Sch23] Robert Schaback. Small errors imply large evaluation instabilities. *Advances in Computational Mathematics*, 49(2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10026-2.

Schaback:2026:OCS

[Sch26] Robert Schaback. Optimal compactly supported functions in Sobolev spaces. *Advances in Computational Mathematics*, 52(2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-026-10293-9.

Chang:2013:BHM

[sCLC13] Shih sen Chang, H. W. Joseph Lee, and Chi Kin Chan. A block hybrid method for solving generalized equilibrium problems and convex feasibility problem. *Advances in Computational Mathematics*, 38(3):563–580, April 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9249-5.

Sun:2026:TGD

[SDZ26] Xinxin Sun, Guangzhi Du, and Liyun Zuo. Two-grid domain decomposition methods for the coupled Navier–Stokes–Darcy model. *Advances in Computational Mathematics*, 52 (1):??, February 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10278-0`.

Song:1996:MMB

[SEE96] J. H. Song, M. J. Edirisinghe, and J. R. G. Evans. Mathematical modelling of binder removal from plastically-formed engineering ceramics. *Advances in Computational Mathematics*, 6(1): 325–331, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic).

Smith:2014:DAF

[SF14] Lindsay N. Smith and Matthew Fickus. Determining angular frequency from images of rotating objects via a generalized Fast Fourier Transform. *Advances in Computational Mathematics*, 40(1):27–47, February 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9296-1`.

Sommer:2015:FCP

[SFDE15] Alexander Sommer, Ortwin Farle, and Romanus Dyczij-Edlinger. A fast certified parametric near-field-to-far-field transformation technique for electrically large antenna arrays. *Advances in Computational Mathematics*, 41(5):1015–1034, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9373-0`.

Sharma:2026:SPL

[SGK26] Harsh Sharma, Juan Diego Draxl Giannoni, and Boris Kramer. Structure-preserving Lift & Learn: Scientific machine learning for nonlinear conservative partial differential equations. *Advances in Computational Mathematics*, 52 (2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10294-8`.

Siyu:2023:CDD

[SH23] Bai Siyu and Huang Hongying. Coupling of direct discontinuous Galerkin method and natural boundary element method for exterior interface problems with curved elements. *Advances in Computational Mathematics*, 49 (1):??, February 2023. CO-

DEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-10007-x.

Shekhtman:2008:BIP

[She08] Boris Shekhtman. Bivariate ideal projectors and their perturbations. *Advances in Computational Mathematics*, 29(3):207–228, October 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-007-9040-9.

Shen:2009:BDE

[She09] Jianhong (Jackie) Shen. Beamlets are densely embedded in H^{-1}. *Advances in Computational Mathematics*, 31(1–3):329–348, October 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9094-3.

Sherratt:2013:NCB

[She13] Jonathan A. Sherratt. Numerical continuation of boundaries in parameter space between stable and unstable periodic travelling wave (wavetrain) solutions of partial differential equations. *Advances in Computational Mathematics*, 39(1):175–192, July 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-012-9273-0.

Shi:2014:QRR

[SHTS14] Lei Shi, Xiaolin Huang, Zheng Tian, and Johan A. K. Suykens. Quantile regression with ℓ_1-regularization and Gaussian kernels. *Advances in Computational Mathematics*, 40(2):517–551, April 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-013-9317-0.

San:2015:SPO

[SI15] Omer San and Traian Iliescu. A stabilized proper orthogonal decomposition reduced-order model for large scale quasigeostrophic ocean circulation. *Advances in Computational Mathematics*, 41(5):1289–1319, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-015-9417-0.

Sidi:2017:MPR

[Sid17] Avram Sidi. Minimal polynomial and reduced rank extrapolation methods are related. *Advances in Computational Mathematics*, 43(1):151–170, February 2017. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9481-0.

Sidi:2020:VVP

[Sid20] Avram Sidi. Vector versions of Prony's algorithm and vector-valued rational approximations. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09751-9.

Silbermann:1999:TPD

[Sil99] Bernd Silbermann. Tribute to Professor Dr. rer. nat. habil. Siegfried Prössdorf 02.01.1939—19.07.1998. *Advances in Computational Mathematics*, 11(1):i–ii, July 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018903421256.

Sun:2015:NIS

[SJJL15] Zhiyuan Sun, Yuling Jiao, Bangti Jin, and Xiliang Lu. Numerical identification of a sparse Robin coefficient. *Advances in Computational Mathematics*, 41(1):131–148, February 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-014-9352-5.

Sui:2021:SOA

[SJJY21] Yubing Sui, Jingzhou Jiang, Guigen Jin, and Xiaofeng Yang. Second-order accurate and energy stable numerical scheme for an immiscible binary mixture of nematic liquid crystals and viscous fluids with strong anchoring potentials. *Advances in Computational Mathematics*, 47(3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09865-8.

Shylaja:2024:MTV

[SK24] Devika Shylaja and Sarvesh Kumar. Morley type virtual element method for von Kármán equations. *Advances in Computational Mathematics*, 50(5):??, October 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10158-z.

Sun:2005:GFT

[SL05] Jiachang Sun and Huiyuan Li. Generalized Fourier transform on an arbitrary triangular domain. *Advances in Computational Mathematics*, 22(3):223–248, April 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/

10.1007/s10444-003-7667-8.

Shen:2012:RIP

[SL12] Yi Shen and Song Li. Restricted p-isometry property and its application for nonconvex compressive sensing. *Advances in Computational Mathematics*, 37(3): 441–452, October 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9219-y.

Schauer:2015:RBM

[SL15] Volker Schauer and Christian Linder. The reduced basis method in all-electron calculations with finite elements. *Advances in Computational Mathematics*, 41(5):1035–1047, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-014-9374-z.

Sun:2026:SAB

[SLC26] Ying Sun, Kang-Ya Lu, and Yu-Fan Cao. Spectral analysis of the banded preconditioning with adjustable shift compensation for solving two-dimensional Riesz space-fractional diffusion equations. *Advances in Computational Mathematics*, 52 (3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-026-10312-9.

Sticko:2020:HOC

[SLK20] Simon Sticko, Gustav Ludvigsson, and Gunilla Kreiss. High-order cut finite elements for the elastic wave equation. *Advances in Computational Mathematics*, 46 (3):??, June 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09785-z.

Sommer:2014:OGE

[SLN14] S. Sommer, F. Lauze, and M. Nielsen. Optimization over geodesics for exact principal geodesic analysis. *Advances in Computational Mathematics*, 40(2): 283–313, April 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-013-9308-1.

Sun:2021:AAO

[SLT21] Xue Sun, Zhongli Liu, and Hongjiong Tian. An alternative approach for order conditions of Runge–Kutta–Nyström methods. *Advances in Computational Mathematics*, 47(5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.

springer.com/article/10.1007/s10444-021-09894-3.

Sun:1999:SPD

[SM99] Xingping Sun and V. A. Menegatto. Strictly positive definite functions on the complex Hilbert sphere. *Advances in Computational Mathematics*, 11(2–3):105–119, November 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018915723982. Radial basis functions and their applications.

San:2018:NNC

[SM18] Omer San and Romit Maulik. Neural network closures for nonlinear model order reduction. *Advances in Computational Mathematics*, 44(6):1717–1750, December 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9590-z.

Sana:2024:CAD

[SM24] Soura Sana and Bankim C. Mandal. Convergence analysis of the Dirichlet–Neumann waveform relaxation algorithm for time fractional subdiffusion and diffusion-wave equations in heterogeneous media. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10185-w.

Saibaba:2022:ERT

[SMK22] Arvind K. Saibaba, Rachel Minster, and Misha E. Kilmer. Efficient randomized tensor-based algorithms for function approximation and low-rank kernel interactions. *Advances in Computational Mathematics*, 48 (5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09979-7.

Smoch:2007:SBG

[Smo07] Laurent Smoch. Spectral behaviour of GMRES applied to singular systems. *Advances in Computational Mathematics*, 27(2):151–166, August 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-007-9029-4.

Sushnikova:2020:SNE

[SO20] Daria A. Sushnikova and Ivan V. Oseledets. Simple non-extensive sparsification of the hierarchical matrices. *Advances in Computational Mathematics*, 46

(4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09794-y`.

Sondergaard:2007:GFS

[Søn07] Peter L. Søndergaard. Gabor frames by sampling and periodization. *Advances in Computational Mathematics*, 27(4):355–373, November 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-9003-y`.

Sorokina:2018:BBT

[Sor18] Tatyana Sorokina. Bernstein–Bézier techniques for divergence of polynomial spline vector fields in $\mathbf{R}^n$. *Advances in Computational Mathematics*, 44(1):227–244, February 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9541-0`.

Sousa:2022:CCI

[Sou22] Ercília Sousa. Convergence of consistent and inconsistent schemes for fractional diffusion problems with boundaries. *Advances in Computational Mathematics*, 48 (5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09984-w`.

Speleers:2017:HSS

[Spe17] Hendrik Speleers. Hierarchical spline spaces: quasi-interpolants and local approximation estimates. *Advances in Computational Mathematics*, 43(2):235–255, April 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9483-y`.

Spence:2023:SPE

[Spe23] E. A. Spence. A simple proof that the *hp*-FEM does not suffer from the pollution effect for the constant-coefficient full-space Helmholtz equation. *Advances in Computational Mathematics*, 49(2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10025-3`.

Speleers:2025:NTH

[Spe25] Hendrik Speleers. On the normalization of trigonometric and hyperbolic B-splines. *Advances in Computational Mathematics*, 51 (6):??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL https://link.springer.com/article/10.1007/s10444-025-10252-w.

Sharma:2018:EMF

[SPS18] Nisha Sharma, Amiya K. Pani, and Kapil K. Sharma. Expanded mixed FEM with lowest order RT elements for nonlinear and nonlocal parabolic problems. *Advances in Computational Mathematics*, 44(5):1537–1571, October 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9596-6.

Schober:2021:EDT

[SPS21] Kevin Schober, Jürgen Prestin, and Serhii A. Stasyuk. Edge detection with trigonometric polynomial shearlets. *Advances in Computational Mathematics*, 47(1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09838-3.

Sun:2026:ISA

[SQ26] Peilin Sun and Xu Qin. An improved SNE with its applications in classification and visualization. *Advances in Computational Mathematics*, 52(1):??, February 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10279-z.

Sprott:2002:KGR

[SR02] Kenneth Sprott and Bahram Ravani. Kinematic generation of ruled surfaces. *Advances in Computational Mathematics*, 17(1–2):115–133, July 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1015211729988. Advances in geometrical algorithms and representations.

Santos:2025:EDN

[SRC25] Mauro L. Santos, Anderson J. A. Ramos, and Anderson D. S. Campelo. Exponential decay and numerical treatment for mixture problem with Fourier law and frictional damping. *Advances in Computational Mathematics*, 51(4):??, August 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10250-y.

Song:2012:MII

[SRFH12] Guohui Song, John Riddle, Gregory E. Fasshauer, and Fred J. Hickernell. Multivariate interpolation with increasingly flat radial basis functions of finite smoothness. *Advances in Computational Mathematics*, 36(3):

485–501, April 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9192-5`.

Sommer:1996:CSW

[SS96] Manfred Sommer and Hans Strauss. A condition of Schoenberg–Whitney type for multivariate spline interpolation. *Advances in Computational Mathematics*, 5 (1):381–397, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02124752`.

Schumaker:2004:QST

[SS04] Larry L. Schumaker and Tatyana Sorokina. C^1 quintic splines on type-4 tetrahedral partitions. *Advances in Computational Mathematics*, 21(3–4):421–444, October 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/B:ACOM.0000032045.03775.8d`.

Sloan:2008:ASU

[SS08] Ian H. Sloan and Alvise Sommariva. Approximation on the sphere using radial basis functions plus polynomials. *Advances in Computational Mathematics*, 29(2): 147–177, August 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9048-1`.

Sun:2013:IFW

[SS13] Xudong Sun and Wenchang Sun. Inversion formula for the windowed Fourier transform, II. *Advances in Computational Mathematics*, 38(1): 21–34, January 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9223-2`.

Schumaker:2014:CPS

[SS14] Larry L. Schumaker and Hendrik Speleers. Convexity preserving C^0 splines. *Advances in Computational Mathematics*, 40(1):117–135, February 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9301-8`.

Son:2015:MOR

[SS15] Nguyen Thanh Son and Tatjana Stykel. Model order reduction of parameterized circuit equations based on interpolation. *Advances in Computational Mathematics*, 41(5):1321–1342, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL http://link.springer.com/article/10.1007/s10444-015-9418-z.

Santin:2016:AEK

[SS16] G. Santin and R. Schaback. Approximation of eigenfunctions in kernel-based spaces. *Advances in Computational Mathematics*, 42(4):973–993, August 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-015-9449-5.

Song:2025:DFE

[SSH25] Jianjian Song, Dongwoo Sheen, and Yinnian He. A difference finite element method based on nonconforming finite element methods for 3D elliptic problems. *Advances in Computational Mathematics*, 51(1):??, February 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10219-x.

Strossner:2024:AEF

[SSK24] Christoph Strössner, Bonan Sun, and Daniel Kressner. Approximation in the extended functional tensor train format. *Advances in Computational Mathematics*, 50(3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10140-9.

Sorgentone:2023:EQE

[ST23] Chiara Sorgentone and Anna-Karin Tornberg. Estimation of quadrature errors for layer potentials evaluated near surfaces with spherical topology. *Advances in Computational Mathematics*, 49(6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10083-7.

Steidl:1998:NFF

[Ste98] Gabriele Steidl. A note on Fast Fourier Transforms for nonequispaced grids. *Advances in Computational Mathematics*, 9(3–4):337–352, November 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018901926283.

Stonag:1996:CPL

[Sto96] Eduardo D. Stonag. Critical points for least-squares problems involving certain analytic functions, with applications to sigmoidal nets. *Advances in Computational Mathematics*, 5(1):245–268, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.

springer.com/article/10.1007/BF02124746.

Stolk:2017:ISD

[Sto17] Christiaan C. Stolk. An improved sweeping domain decomposition preconditioner for the Helmholtz equation. *Advances in Computational Mathematics*, 43(1): 45–76, February 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9475-y; http://link.springer.com/content/pdf/10.1007/s10444-016-9475-y.pdf.

Stolk:2025:TGM

[Sto25] Christiaan C. Stolk. A two-grid method with dispersion matching for finite-element Helmholtz problems. *Advances in Computational Mathematics*, 51 (5):??, October 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10256-6.

Strom:1995:BSH

[Str95] Kyrre Strøm. B-splines with homogenized knots. *Advances in Computational Mathematics*, 3(3):291–308, January 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02988627.

Struble:2013:CWA

[Str13] Dale W. Struble. The construction of wavelets adapted to compact domains. *Advances in Computational Mathematics*, 38(3): 581–600, April 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9250-z.

Sun:2012:LIF

[SU12] Qiyu Sun and Michael Unser. Left-inverses of fractional Laplacian and sparse stochastic processes. *Advances in Computational Mathematics*, 36(3):399–441, April 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9183-6; http://link.springer.com/content/pdf/10.1007/s10444-011-9183-6.pdf.

Sukhorukova:2022:GVP

[SU22] Nadezda Sukhorukova and Julien Ugon. A generalisation of de la Vallée–Poussin procedure to multivariate approximations. *Advances in Computational Mathematics*, 48(1):??, February 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.

springer.com/article/10.1007/s10444-021-09919-x.

Sun:2008:FSF

[Sun08] Qiyu Sun. Frames in spaces with finite rate of innovation. *Advances in Computational Mathematics*, 28(4): 301–329, May 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-006-9021-4.

Sun:2010:LRS

[Sun10] Qiyu Sun. Local reconstruction for sampling in shift-invariant spaces. *Advances in Computational Mathematics*, 32(3):335–352, April 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9109-0.

Sun:2014:LNF

[Sun14] Qiyu Sun. Localized nonlinear functional equations and two sampling problems in signal processing. *Advances in Computational Mathematics*, 40(2): 415–458, April 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-013-9314-3.

Svacek:2019:IAF

[Svá19] Petr Svácek. On implementation aspects of finite element method and its application. *Advances in Computational Mathematics*, 45(4): 2065–2081, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09685-x.

Stevenson:2022:WTF

[SvVW22] Rob Stevenson, Raymond van Venetië, and Jan Westerdiep. A wavelet-in-time, finite element-in-space adaptive method for parabolic evolution equations. *Advances in Computational Mathematics*, 48(3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09930-w.

Shaw:1996:TAF

[SW96] Simon Shaw and J. R. Whiteman. Towards adaptive finite element schemes for partial differential Volterra equation solvers. *Advances in Computational Mathematics*, 6(1):309–323, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02127710. John

Crank 80th birthday special issue.

Steinbach:1998:CSE

[SW98] O. Steinbach and W. L. Wendland. The construction of some efficient preconditioners in the boundary element method. *Advances in Computational Mathematics*, 9(1–2):191–216, September 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018937506719`. Numerical treatment of boundary integral equations.

Sloan:2004:ESP

[SW04] Ian H. Sloan and Robert S. Womersley. Extremal systems of points and numerical integration on the sphere. *Advances in Computational Mathematics*, 21(1–2):107–125, July 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/B:ACOM.0000016428.25905.da`.

Schaback:2006:LCR

[SW06] R. Schaback and J. Werner. Linearly constrained reconstruction of functions by kernels with applications to machine learning. *Advances in Computational Mathematics*, 25(1–3):237–258, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7616-1`.

Sorokina:2008:MPS

[SW08] T. Sorokina and A. J. Worsey. A multivariate Powell–Sabin interpolant. *Advances in Computational Mathematics*, 29(1):71–89, July 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9041-8`.

Sun:2010:RLS

[SW10] Hongwei Sun and Qiang Wu. Regularized least square regression with dependent samples. *Advances in Computational Mathematics*, 32(2):175–189, February 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9099-y`.

Schmidt:2020:REP

[SWH20] Andreas Schmidt, Dominik Wittwar, and Bernard Haasdonk. Rigorous and effective a-posteriori error bounds for nonlinear problems-application to RB methods. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.`

springer.com/article/10.1007/s10444-020-09741-x.

Swietlicka:2019:RTS

[Świ19] Aleksandra Świetlicka. Regularization theory in the study of generalization ability of a biological neural network model. *Advances in Computational Mathematics*, 45(4): 1793–1805, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-09658-6.

Sauer:1995:MHI

[SX95] Thomas Sauer and Yuan Xu. On multivariate Hermite interpolation. *Advances in Computational Mathematics*, 4(1–2):207–259, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF03177515.

Shi:2007:COP

[SX07] Ying Guang Shi and Guoliang Xu. Construction of σ-orthogonal polynomials and Gaussian quadrature formulas. *Advances in Computational Mathematics*, 27(1): 79–94, July 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-007-9033-8.

Shen:2009:PMM

[SX09] Lixin Shen and Yuesheng Xu. Preface [Mathematical methods for image processing]. *Advances in Computational Mathematics*, 31(1–3):1–4, October 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-009-9113-z; http://link.springer.com/content/pdf/10.1007/s10444-009-9113-z.pdf.

Sun:2022:OVS

[SXWG22] Yafei Sun, Yingxiang Xu, Shuangbin Wang, and Shan Gao. Optimized Ventcel–Schwarz methods for the Cahn–Hilliard equation discretized by the stabilized linear Crank–Nicolson scheme. *Advances in Computational Mathematics*, 48(5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09982-y.

Shu:2006:AMM

[SXYY06] Shi Shu, Jinchao Xu, Ying Yang, and Haiyuan Yu. An algebraic multigrid method for finite element systems on criss-cross grids. *Advances in Computational Mathematics*, 25(1–3):287–304, July 2006. CODEN

ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7627-y`.

Schneider:2006:ADG

[SXZ06] Reinhold Schneider, Yuesheng Xu, and Aihui Zhou. An analysis of discontinuous Galerkin methods for elliptic problems. *Advances in Computational Mathematics*, 25(1–3):259–286, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7619-y`.

Shi:2019:UOE

[SY19] Dongyang Shi and Huaijun Yang. Unconditionally optimal error estimates of a new mixed FEM for nonlinear Schrödinger equations. *Advances in Computational Mathematics*, 45(5–6):3173–3194, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09732-7`.

Sun:2018:ADM

[SYCJ18] Tao Sun, Penghang Yin, Lizhi Cheng, and Hao Jiang. Alternating direction method of multipliers with difference of convex functions. *Advances in Computational Mathematics*, 44(3):723–744, June 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9559-3`.

Sun:2009:CLS

[SZ09] Wenchang Sun and Xingwei Zhou. Characterization of local sampling sequences for spline subspaces. *Advances in Computational Mathematics*, 30(2):153–175, February 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9062-y`.

Song:2021:VBI

[SZJ21] Xiaoyan Song, Guang-Hui Zheng, and Lijian Jiang. Variational Bayesian inversion for the reaction coefficient in space-time nonlocal diffusion equations. *Advances in Computational Mathematics*, 47(3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09850-1`.

Taddei:2019:OOP

[Tad19] Tommaso Taddei. An offline/online procedure for dual norm calculations of parameterized functionals: empirical quadrature and empirical test spaces. *Advances*

in Computational Mathematics, 45(5–6):2429–2462, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09721-w`.

Talaska:2019:PAF

[Tal19] Tomasz Talaśka. Parallel, asynchronous, fuzzy logic systems realized in CMOS technology. *Advances in Computational Mathematics*, 45(4):1807–1823, August 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-09659-5`.

Tang:2017:SID

[Tan17] Sui Tang. System identification in dynamical sampling. *Advances in Computational Mathematics*, 43(3):555–580, June 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9497-5`.

Tausch:2019:NMB

[Tau19] Johannes Tausch. Nyström method for BEM of the heat equation with moving boundaries. *Advances in Computational Mathematics*, 45(5–6):2953–2968, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09720-x`.

Turner:2016:TDC

[TB16] M. R. Turner and T. J. Bridges. Time-dependent conformal mapping of doubly-connected regions. *Advances in Computational Mathematics*, 42(4):947–972, August 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9448-6; http://link.springer.com/content/pdf/10.1007/s10444-015-9448-6.pdf`.

Twizell:1994:NME

[TBD94] E. H. Twizell, A. Boutayeb, and K. Djidjeli. Numerical methods for eighth-, tenth- and twelfth-order eigenvalue problems arising in thermal instability. *Advances in Computational Mathematics*, 2(4):407–436, September 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02521607`.

Tomljanovic:2018:DOP

[TBG18] Zoran Tomljanović, Christopher Beattie, and Serkan Gugercin. Damping optimization of parameter dependent mechanical systems

by rational interpolation. *Advances in Computational Mathematics*, 44(6):1797–1820, December 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9605-9`.

Toshniwal:2021:CDS

[TD21] Deepesh Toshniwal and Michael DiPasquale. Counting the dimension of splines of mixed smoothness. *Advances in Computational Mathematics*, 47(1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09830-x`.

Tian:2016:ACS

[TDG16] Xiaochuan Tian, Qiang Du, and Max Gunzburger. Asymptotically compatible schemes for the approximation of fractional Laplacian and related nonlocal diffusion problems on bounded domains. *Advances in Computational Mathematics*, 42(6):1363–1380, December 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9466-z`.

Temlyakov:1998:BTA

[Tem98] V. N. Temlyakov. The best m-term approximation and greedy algorithms. *Advances in Computational Mathematics*, 8(4):249–265, June 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018900431309`.

Temlyakov:2000:WGA

[Tem00] V. N. Temlyakov. Weak greedy algorithms. *Advances in Computational Mathematics*, 12(2–3):213–227, February 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018917218956`.

Temlyakov:2001:GAB

[Tem01] V. N. Temlyakov. Greedy algorithms in Banach spaces. *Advances in Computational Mathematics*, 14(3):277–292, April 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016657209416`.

Temlyakov:2002:CCW

[Tem02] V. N. Temlyakov. A criterion for convergence of weak greedy algorithms. *Advances in Computational Mathematics*, 17(3):269–280, October 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.`

springer.com/article/10.1023/A:1016061804993.

Temlyakov:2007:GEB

[Tem07] V. N. Temlyakov. Greedy expansions in Banach spaces. *Advances in Computational Mathematics*, 26(4):431–449, May 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-005-7452-y.

Twizell:1996:SOS

[TGA96] E. H. Twizell, A. B. Gumel, and M. A. Arigu. Second-order, L_0-stable methods for the heat equation with time-dependent boundary conditions. *Advances in Computational Mathematics*, 6 (1):333–352, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02127712. John Crank 80th birthday special issue.

Tan:2019:HDF

[TH19] Wee Chin Tan and Viet Ha Hoang. High dimensional finite elements for time-space multiscale parabolic equations. *Advances in Computational Mathematics*, 45(3): 1291–1327, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-09657-7.

Tonnon:2024:SLF

[TH24] Wouter Tonnon and Ralf Hiptmair. Semi-Lagrangian finite element exterior calculus for incompressible flows. *Advances in Computational Mathematics*, 50 (1):??, February 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10092-6.

Thanh:2019:WBN

[Tha19] Mai Duc Thanh. A well-balanced numerical scheme for a model of two-phase flows with treatment of nonconservative terms. *Advances in Computational Mathematics*, 45(5–6):2701–2719, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09704-x.

Timme:2021:MPP

[Tim21] Sascha Timme. Mixed precision path tracking for polynomial homotopy continuation. *Advances in Computational Mathematics*, 47 (5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09899-y.

Takhirov:2018:CEM

[TL18] Aziz Takhirov and Alexander Lozovskiy. Computationally efficient modular nonlinear filter stabilization for high Reynolds number flows. *Advances in Computational Mathematics*, 44(1): 295–325, February 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9544-x`.

Taddele:2022:LAM

[TLG+22] Guash Haile Taddele, Yuan Li, Aviv Gibali, Poom Kumam, and Jing Zhao. Linear approximation method for solving split inverse problems and its applications. *Advances in Computational Mathematics*, 48 (4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09959-x`.

Toshniwal:2021:PSS

[TMH21] Deepesh Toshniwal, Bernard Mourrain, and Thomas J. R. Hughes. Polynomial spline spaces of non-uniform bidegree on T-meshes: combinatorial bounds on the dimension. *Advances in Computational Mathematics*, 47 (1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09829-4`.

Tommasini:1996:CRL

[Tom96] T. Tommasini. Complexity reduction of least squares problems involving special Vandermonde matrices. *Advances in Computational Mathematics*, 6(1):77–86, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127697`.

Tornberg:2016:ESS

[Tor16] Anna-Karin Tornberg. The Ewald sums for singly, doubly and triply periodic electrostatic systems. *Advances in Computational Mathematics*, 42(1):227–248, February 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9422-3`.

Tao:2017:DDM

[TQ17] Zhanjing Tao and Jianxian Qiu. Dimension-by-dimension moment-based central Hermite WENO schemes for directly solving Hamilton–Jacobi equations. *Advances in Computational Mathematics*, 43(5):1023–1058, October 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL http://link.springer.com/article/10.1007/s10444-017-9515-2.

Tan:2024:RIP

[TQ24] Bing Tan and Xiaolong Qin. On relaxed inertial projection and contraction algorithms for solving monotone inclusion problems. *Advances in Computational Mathematics*, 50(4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10156-1.

Tsukanov:2005:MMA

[TS05] I. Tsukanov and V. Shapiro. Meshfree modeling and analysis of physical fields in heterogeneous media. *Advances in Computational Mathematics*, 23(1–2):95–124, July 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-1835-3.

Thao:2021:CCA

[TSV21] Nguyen Hieu Thao, Oleg Soloviev, and Michel Verhaegen. Convex combination of alternating projection and Douglas–Rachford operators for phase retrieval. *Advances in Computational Mathematics*, 47(3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09861-y.

Tan:2010:ROB

[TSY10] Lihui Tan, Lixin Shen, and Lihua Yang. Rational orthogonal bases satisfying the Bedrosian identity. *Advances in Computational Mathematics*, 33(3):285–303, October 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-009-9133-8.

Tran:1998:WBP

[TSZ98] Thanh Tran, Ernst P. Stephan, and Stefan Zaprianov. Wavelet-based preconditioners for boundary integral equations. *Advances in Computational Mathematics*, 9(1–2):233–249, September 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018993624466. Numerical treatment of boundary integral equations.

Thanh:2021:WBH

[TTC21] Nguyen Xuan Thanh, Mai Duc Thanh, and Dao Huy Cuong. A well-balanced high-order scheme on van Leer-type for the shallow water equations with temperature gradient and variable bottom topography. *Advances in Computational Mathematics*, 47

(1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09832-9.

Tripathi:2025:NUR

[TTP25] Lok Pati Tripathi, Aditi Tomar, and Amiya K. Pani. On a non-uniform α-robust IMEX-L1 mixed FEM for time-fractional PIDEs. *Advances in Computational Mathematics*, 51 (1):??, February 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10221-3.

Tausch:1998:SKI

[TW98] Johannes Tausch and Jacob White. Second-kind integral formulations of the capacitance problem. *Advances in Computational Mathematics*, 9(1–2):217–232, September 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018973019922. Numerical treatment of boundary integral equations.

Twizell:1996:P

[Twi96] E. H. Twizell. Preface. *Advances in Computational Mathematics*, 6(1):i–ii, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02127691.

Tang:2019:AOA

[TX19] Xiao Tang and Aiguo Xiao. Asymptotically optimal approximation of some stochastic integrals and its applications to the strong second-order methods. *Advances in Computational Mathematics*, 45(2):813–846, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9638-0.

Tao:2018:CAD

[TY18] Min Tao and Xiaoming Yuan. Convergence analysis of the direct extension of ADMM for multiple-block separable convex minimization. *Advances in Computational Mathematics*, 44(3):773–813, June 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-017-9560-x.

Tygert:2023:CVC

[Tyg23] Mark Tygert. Calibration of P-values for calibration and for deviation of a subpopulation from the full population. *Advances in Computational Mathematics*, 49

(5):??, October 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10068-6`.

Temlyakov:2011:GAR

[TYY11] V. N. Temlyakov, Mingrui Yang, and Peixin Ye. Greedy approximation with regard to non-greedy bases. *Advances in Computational Mathematics*, 34(3): 319–337, April 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9155-2`.

Tasche:2003:REA

[TZ03] Manfred Tasche and Hansmartin Zeuner. Roundoff error analysis of the recursive moving window discrete Fourier transform. *Advances in Computational Mathematics*, 18(1):65–78, January 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1021254709641`.

Tan:2005:FSR

[TZ05] Jieqing Tan and Ping Zhou. On the finite sum representations of the Lauricella functions F_D. *Advances in Computational Mathematics*, 23(4):333–351, November 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1838-0`.

Tebou:2007:UBS

[TZ07] Louis T. Tebou and Enrique Zuazua. Uniform boundary stabilization of the finite difference space discretization of the 1-d wave equation. *Advances in Computational Mathematics*, 26(1–3): 337–365, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7629-9`.

Teng:2016:BCD

[TZL16] Zhongming Teng, Yunkai Zhou, and Ren-Cang Li. A block Chebyshev–Davidson method for linear response eigenvalue problems. *Advances in Computational Mathematics*, 42(5):1103–1128, October 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9455-2`.

Unger:2019:KWL

[UG19] Benjamin Unger and Serkan Gugercin. Kolmogorov n-widths for linear dynamical systems. *Advances in Computational Mathematics*, 45(5–6):2273–2286, December 2019. CODEN

ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09701-0.

Urban:1995:DFW

[Urb95] Karsten Urban. On divergence-free wavelets. *Advances in Computational Mathematics*, 4(1–2):51–81, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02123473.

Varas:1996:RSM

[Var96] María Leonor S. Varas. Reconstruction of signals from multiscale edges. *Advances in Computational Mathematics*, 5(1):31–49, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02124734.

Venturino:2000:CLI

[VC00] E. Venturino and G. A. Chandler. Calculation of line integrals in boundary integral methods. *Advances in Computational Mathematics*, 13 (3):293–318, July 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018914513021.

vanderHouwen:1993:PII

[vdH93] P. J. van der Houwen. Preconditioning in implicit initial-value problem methods on parallel computers. *Advances in Computational Mathematics*, 1(1): 39–60, February 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02070820.

vanderHouwen:1997:PLS

[vdHdS97] P. J. van der Houwen and J. J. B. de Swart. Parallel linear system solvers for Runge–Kutta methods. *Advances in Computational Mathematics*, 7(1–2):157–181, March 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018990601750. Parallel methods for ODEs.

vanderHouwen:2000:DIR

[vdHS00] P. J. van der Houwen and B. P. Sommeijer. Diagonally implicit Runge–Kutta methods for 3D shallow water applications. *Advances in Computational Mathematics*, 12(2–3):229–250, February 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018969203026.

vanderHouwen:1997:WRM

[vdHv97] P. J. van der Houwen and W. A. van der Veen. Waveform relaxation methods for implicit differential equations. *Advances in Computational Mathematics*, 7(1–2): 183–197, March 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018942718589`. Parallel methods for ODEs.

vanderMee:2003:SEI

[vdMNS03] Cornelis V. M. van der Mee, M. Z. Nashed, and Sebastiano Seatzu. Sampling expansions and interpolation in unitarily translation invariant reproducing kernel Hilbert spaces. *Advances in Computational Mathematics*, 19(4):355–372, November 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1024233232215`.

Venturino:1994:LIA

[Ven94] Ezio Venturino. A lacunary interpolation algorithm on arbitrary points. *Advances in Computational Mathematics*, 2(2):223–233, March 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02521109`.

Voss:1996:TSA

[VK96] D. A. Voss and A. Q. M. Khaliq. Time-stepping algorithms for semidiscretized linear parabolic PDEs based on rational approximants with distinct real poles. *Advances in Computational Mathematics*, 6(1):353–363, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02127713`. John Crank 80th birthday special issue.

VanBuggenhout:2026:RRZ

[VLV26] Niel Van Buggenhout, Teresa Laudadio, and Paul Van Dooren. Recurrence relations and zeros of Gegenbauer–Sobolev orthogonal polynomials. *Advances in Computational Mathematics*, 52 (4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10338-z`.

Voronin:2017:EAC

[VM17] Sergey Voronin and Per-Gunnar Martinsson. Efficient algorithms for CUR and interpolative matrix decompositions. *Advances in Computational Mathematics*, 43 (3):495–516, June 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL `http://link.springer.com/article/10.1007/s10444-016-9494-8`.

Vargun:2026:AAP

[VMR26] Duygu Vargun, Igor O. Monteiro, and Leo G. Rebholz. Anderson acceleration of a Picard solver for the Oldroyd-B model of viscoelastic fluids. *Advances in Computational Mathematics*, 52 (2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10270-8`.

Vogeli:2018:FDG

[VNS18] Urs Vögeli, Khadijeh Nedaiasl, and Stefan A. Sauter. A fully discrete Galerkin method for Abel-type integral equations. *Advances in Computational Mathematics*, 44(5):1601–1626, October 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9598-4`.

Venn:2026:MME

[VR26] Daniel R. Venn and Steven J. Ruuth. A meshfree method for eigenvalues of differential operators on surfaces, including Steklov problems. *Advances in Computational Mathematics*, 52 (4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10335-2`.

Van:2002:ATD

[VW02] Tri Van and Aihua Wood. Analysis of time-domain Maxwell's equations for 3-D cavities. *Advances in Computational Mathematics*, 16(2–3):211–228, April 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014489832230`. Modeling and computation in optics and electromagnetics.

Van:2005:FEA

[VW05] Tri Van and Aihua Wood. Finite element analysis of transient electromagnetic scattering problems. *Advances in Computational Mathematics*, 22(1):21–48, January 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-1176-x`.

Walz:1995:UAB

[Wal95] Guido Walz. A unified approach to B-spline recursions and knot insertion, with application to new recursion formulas. *Advances in Computational Mathematics*, 3(1–2): 89–100, January 1995. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02431997.

Waldron:2025:TFQ

[Wal25] Shayne Waldron. Tight frames over the quaternions and equiangular lines. *Advances in Computational Mathematics*, 51(6):??, December 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10264-6.

Wang:2008:SDQ

[Wan08] Yang Wang. Sigma–delta quantization errors and the traveling salesman problem. *Advances in Computational Mathematics*, 28(2):101–118, February 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-006-9016-1.

Wang:2012:PNM

[Wan12] Y. F. Wang. Preconditioning non-monotone gradient methods for retrieval of seismic reflection signals. *Advances in Computational Mathematics*, 36(2):353–376, February 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9207-2.

Wang:2019:OCO

[Wan19] Wansheng Wang. Optimal convergence orders of fully geometric mesh one-leg methods for neutral differential equations with vanishing variable delay. *Advances in Computational Mathematics*, 45(3):1631–1655, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09688-8.

Wang:2022:AFV

[Wan22] Zhoufeng Wang. An adaptive finite volume method for the diffraction grating problem with the truncated DtN boundary condition. *Advances in Computational Mathematics*, 48 (4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09969-9.

Wang:2023:CMS

[Wan23a] Xiaojie Wang. Correction: Mean-square convergence rates of implicit Milstein type methods for SDEs with non-Lipschitz coefficients. *Advances in Computational Mathematics*, 49 (3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.

springer.com/article/10.1007/s10444-023-10056-w.

Wang:2023:MSC

[Wan23b] Xiaojie Wang. Mean-square convergence rates of implicit Milstein type methods for SDEs with non-Lipschitz coefficients. *Advances in Computational Mathematics*, 49 (3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10034-2.

Warren:1996:BCC

[War96] Joe Warren. Barycentric coordinates for convex polytopes. *Advances in Computational Mathematics*, 6(1): 97–108, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02127699.

Ward:2013:EEA

[War13] John Paul Ward. L^p error estimates for approximation by Sobolev splines and Wendland functions on $\mathbf{R}^d$. *Advances in Computational Mathematics*, 38(4): 873–889, May 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9263-7.

Watson:1994:SOP

[Wat94] G. A. Watson. The solution of orthogonal Procrustes problems for a family of orthogonally invariant norms. *Advances in Computational Mathematics*, 2(4):393–405, September 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02521606.

Watanabe:1996:SML

[Wat96] Sumio Watanabe. Solvable models of layered neural networks based on their differential structure. *Advances in Computational Mathematics*, 5(1):205–231, December 1996. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02124744.

Wang:2024:RPC

[WaZL24] Meiting Wang, Guang an Zou, and Jian Li. A rotational pressure-correction discontinuous Galerkin scheme for the Cahn–Hilliard-Darcy–Stokes system. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10151-6.

Wurth:2022:DDU

[WBGG22] Alexandra Würth, Mickaël Binois, Paola Goatin, and Simone Göttlich. Data-driven uncertainty quantification in macroscopic traffic flow models. *Advances in Computational Mathematics*, 48(6): ??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09989-5`.

Wang:2024:AFE

[WBY24] Shixi Wang, Hai Bi, and Yidu Yang. An adaptive FEM for the elastic transmission eigenvalue problem with different elastic tensors and different mass densities. *Advances in Computational Mathematics*, 50 (1):??, February 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10099-z`.

Wang:2025:SCF

[WC25] Yibo Wang and Wanrong Cao. Strong convergence of a fully discrete scheme for stochastic Burgers equation with fractional-type noise. *Advances in Computational Mathematics*, 51 (2):??, April 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10227-x`.

Wang:2024:SBA

[WCL24] Mengyu Wang, Honghua Cui, and Hanyu Li. SVD-based algorithms for tensor wheel decomposition. *Advances in Computational Mathematics*, 50(5):??, October 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10194-9`.

Wendland:1995:PPP

[Wen95] Holger Wendland. Piecewise polynomial, positive definite and compactly supported radial functions of minimal degree. *Advances in Computational Mathematics*, 4(1–2):389–396, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02123482`.

Wu:2002:TMP

[WFL02] Wei Wu, Guorui Feng, and Xin Li. Training multilayer perceptrons via minimization of sum of ridge functions. *Advances in Computational Mathematics*, 17(4):331–347, November 2002. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016249727555`.

Wang:2019:HAN

[WG19] Jun Wang and Leslie Greengard. Hybrid asymptotic/numerical methods for the evaluation of layer heat potentials in two dimensions. *Advances in Computational Mathematics*, 45(2): 847–867, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9641-5`.

Wei:2007:NDR

[WH07] T. Wei and Y. C. Hon. Numerical differentiation by radial basis functions approximation. *Advances in Computational Mathematics*, 27(3): 247–272, October 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-9001-0`.

Wang:2018:NMS

[WHS18] Liqun Wang, Songming Hou, and Liwei Shi. A numerical method for solving three-dimensional elliptic interface problems with triple junction points. *Advances in Computational Mathematics*, 44(1): 175–193, February 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9539-7`.

Wang:2018:MWX

[WHTZ18] Wenqing Wang, Xuehai Huang, Kai Tang, and Ruiyue Zhou. Morley–Wang–Xu element methods with penalty for a fourth order elliptic singular perturbation problem. *Advances in Computational Mathematics*, 44(4):1041–1061, August 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9572-6`.

Wierse:1997:NTM

[Wie97] Monika Wierse. A new theoretically motivated higher order upwind scheme on unstructured grids of simplices. *Advances in Computational Mathematics*, 7(3): 303–335, May 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018955121314`.

Wieland:2015:IPM

[Wie15] Bernhard Wieland. Implicit partitioning methods for unknown parameter sets: in the context of the reduced basis method. *Advances in Computational Mathematics*, 41(5):1159–1186, October 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.`

springer.com/article/10.1007/s10444-015-9404-5.

Wille:1998:ESC

[Wil98] David R. Willé. Experiments in stepsize control for Adams linear multistep methods. *Advances in Computational Mathematics*, 8(4):335–344, June 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1018960717197.

Williams:1993:LSC

[WK93] Jack Williams and Z. Kalogiratou. Least squares and Chebyshev fitting for parameter estimation in ODEs. *Advances in Computational Mathematics*, 1(3):357–366, October 1993. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02072016.

Wendland:2020:SPD

[WK20] Holger Wendland and Jens Künemund. Solving partial differential equations on (evolving) surfaces with radial basis functions. *Advances in Computational Mathematics*, 46(4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09803-0.

Weder:2025:GNN

[WKH25] Philipp Weder, Mariella Kast, and Jan S. Hesthaven. Galerkin neural network-POD for acoustic and electromagnetic wave propagation in parametric domains. *Advances in Computational Mathematics*, 51(4):??, August 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10245-9.

Wu:2005:GSF

[WL05] Zong Min Wu and Jian Ping Liu. Generalized Strang–Fix condition for scattered data quasi-interpolation. *Advances in Computational Mathematics*, 23(1–2):201–214, July 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-004-1832-6.

Wang:2012:RDN

[WL12] Haibing Wang and Jijun Liu. Recovering the Dirichlet-to-Neumann map in inverse scattering problems using integral equation methods. *Advances in Computational Mathematics*, 36(2):279–297, February 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.

springer.com/article/10.1007/s10444-011-9191-6.

Wang:2022:IGI

[WLB22] Tingyu Wang, Simon K. Layton, and Lorena A. Barba. Inexact GMRES iterations and relaxation strategies with fast-multipole boundary element method. *Advances in Computational Mathematics*, 48(3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09932-8.

Wang:2026:CAT

[WlL26a] Jiexin Wang and Hong lin Liao. Convergence analysis of time-filtered backward differentiation methods up to fourth-order for the molecular beam epitaxial model without slope selection. *Advances in Computational Mathematics*, 52 (2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-026-10302-x.

Wei:2026:GQR

[WLL26b] Ting Wei, Xinhang Li, and Yuhua Luo. A generalized quasi-reversibility regularization method to determine a spatial source component in a time-fractional diffusion-wave equation. *Advances in Computational Mathematics*, 52(1):??, February 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-026-10284-w.

Witkowski:2015:SCN

[WLPV15] T. Witkowski, S. Ling, S. Praetorius, and A. Voigt. Software concepts and numerical algorithms for a scalable adaptive parallel finite element method. *Advances in Computational Mathematics*, 41(6):1581–1613, December 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-015-9405-4.

Wang:2016:MAL

[WLW16] Chuanlong Wang, Chao Li, and Jin Wang. A modified augmented Lagrange multiplier algorithm for Toeplitz matrix completion. *Advances in Computational Mathematics*, 42(5):1209–1224, October 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9459-y.

Wen:2023:SBP

[WLW23] Jin Wen, Zhi-Yuan Li, and Yong-Ping Wang. Solving the backward problem for time-fractional wave equations by

the quasi-reversibility regularization method. *Advances in Computational Mathematics*, 49(6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10080-w`.

Wu:2021:ZCN

[WM21] Bowei Wu and Per-Gunnar Martinsson. Zeta correction: a new approach to constructing corrected trapezoidal quadrature rules for singular integral operators. *Advances in Computational Mathematics*, 47(3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09872-9`.

Wang:2013:PCS

[WMB13] Chuan-Long Wang, Guo-Yan Meng, and Yan-Hong Bai. Practical convergent splittings and acceleration methods for non-Hermitian positive definite linear systems. *Advances in Computational Mathematics*, 39(2): 257–271, August 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9278-8`.

Wang:2021:SEE

[WMW21] Wansheng Wang, Mengli Mao, and Zheng Wang. Stability and error estimates for the variable step-size BDF2 method for linear and semilinear parabolic equations. *Advances in Computational Mathematics*, 47 (1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09839-2`.

Wang:2013:MPM

[WMY13] Chuan-Long Wang, Guo-Yan Meng, and Xue-Rong Yong. Modified parallel multisplitting iterative methods for non-Hermitian positive definite systems. *Advances in Computational Mathematics*, 38(4):859–872, May 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9262-8`.

Wenger:2017:CAH

[WOBL17] Theresa Wenger, Sina Ober-Blöbaum, and Sigrid Leyendecker. Construction and analysis of higher order variational integrators for dynamical systems with holonomic constraints. *Advances in Computational Mathematics*, 43(5):1163–1195, October 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.`

springer.com/article/10.1007/s10444-017-9520-5.

Wu:2023:USL

[WQP23] Xiaoxin Wu, Weifeng Qiu, and Kejia Pan. An unconditionally stable and L^2 optimal quadratic finite volume scheme over triangular meshes for anisotropic elliptic equations. *Advances in Computational Mathematics*, 49 (6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10085-5.

Womersley:2001:HGC

[WS01] Robert S. Womersley and Ian H. Sloan. How good can polynomial interpolation on the sphere be? *Advances in Computational Mathematics*, 14(3):195–226, April 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1016630227163.

Warren:2007:BCC

[WSHD07] Joe Warren, Scott Schaefer, Anil N. Hirani, and Mathieu Desbrun. Barycentric coordinates for convex sets. *Advances in Computational Mathematics*, 27(3): 319–338, October 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-005-9008-6.

Wang:2019:FPE

[WSL+19] Xiao Wang, Wenpeng Shang, Xiaofan Li, Jinqiao Duan, and Yanghong Huang. Fokker–Planck equation driven by asymmetric Lévy motion. *Advances in Computational Mathematics*, 45(2):787–811, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9642-4.

Wu:2013:SSD

[WSM13] Zongmin Wu, Xingping Sun, and Limin Ma. Sampling scattered data with Bernstein polynomials: stochastic and deterministic error estimates. *Advances in Computational Mathematics*, 38(1): 187–205, January 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9233-0.

Wu:1995:CSP

[Wu95] Zongmin Wu. Compactly supported positive definite radial functions. *Advances in Computational Mathematics*, 4(1–2):283–292, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.

springer.com/article/10.1007/BF03177517.

Wang:2012:SPI

[WW12] Yang Wang and Qiang Wu. Sparse PCA by iterative elimination algorithm. *Advances in Computational Mathematics*, 36(1):137–151, January 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9186-3.

Wang:2019:LTM

[WW19] Bin Wang and Xinyuan Wu. Long-time momentum and actions behaviour of energy-preserving methods for semi-linear wave equations via spatial spectral semi-discretisations. *Advances in Computational Mathematics*, 45(5–6):2921–2952, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09719-4.

Wang:2024:SPA

[WW24] Tianru Wang and Yimin Wei. A stochastic perturbation analysis of the QR decomposition and its applications. *Advances in Computational Mathematics*, 50(5):??, October 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10198-5.

Wang:2021:DFW

[WWH21] Gang Wang, Feng Wang, and Yinnian He. A divergence-free weak virtual element method for the Navier–Stokes equation on polygonal meshes. *Advances in Computational Mathematics*, 47(6):??, December 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09909-z.

Wang:2018:ACS

[WWX18] Bo Wang, Li-Lian Wang, and Ziqing Xie. Accurate calculation of spherical and vector spherical harmonic expansions via spectral element grids. *Advances in Computational Mathematics*, 44(3):951–985, June 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-017-9569-1.

Wang:2019:PPE

[WXWL19] Liang Wang, Chunguang Xiong, Huibin Wu, and Fusheng Luo. A priori and a posteriori error analysis for discontinuous Galerkin finite element approximations of biharmonic eigenvalue problems. *Advances in Computational Mathematics*, 45(5–6):2623–2646,

December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09689-7`.

Wang:2016:WGF

[WY16] Junping Wang and Xiu Ye. A weak Galerkin finite element method for the Stokes equations. *Advances in Computational Mathematics*, 42(1): 155–174, February 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9415-2`.

Wang:2017:HPV

[WY17] Lina Wang and Lijun Yi. An h–p version of the continuous Petrov–Galerkin method for Volterra delay-integro-differential equations. *Advances in Computational Mathematics*, 43(6):1437–1467, December 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-017-9531-2`.

Wei:2020:EHV

[WY20] Yichen Wei and Lijun Yi. An *hp*-version of the C^0-continuous Petrov–Galerkin time stepping method for nonlinear second-order initial value problems. *Advances in Computational Mathematics*, 46(4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09800-3`.

Wallner:2011:CSA

[WYW11] Johannes Wallner, Esfandiar Nava Yazdani, and Andreas Weinmann. Convergence and smoothness analysis of subdivision rules in Riemannian and symmetric spaces. *Advances in Computational Mathematics*, 34(2): 201–218, February 2011. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9150-7`.

Wei:2010:CAC

[WZ10] T. Wei and D. Y. Zhou. Convergence analysis for the Cauchy problem of Laplace's equation by a regularized method of fundamental solutions. *Advances in Computational Mathematics*, 33(4):491–510, November 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9134-7`.

Wang:2019:ANS

[WZ19] Hong Wang and Xiangcheng Zheng. Analysis and numerical solution of a nonlinear variable-order frac-

tional differential equation. *Advances in Computational Mathematics*, 45(5–6):2647–2675, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09690-0`.

Wang:2020:AMG

[WZ20a] Haiyong Wang and Lun Zhang. Analysis of multivariate Gegenbauer approximation in the hypercube. *Advances in Computational Mathematics*, 46 (4):??, August 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09792-0`.

Wu:2020:PCO

[WZ20b] Zongmin Wu and Xuan Zhou. Polynomial convergence order of stochastic Bernstein approximation. *Advances in Computational Mathematics*, 46(1):??, February 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09742-w`.

Wang:2018:UOH

[WZJ18] Tingchun Wang, Xiaofei Zhao, and Jiaping Jiang. Unconditional and optimal H^2-error estimates of two linear and conservative finite difference schemes for the Klein–Gordon–Schrödinger equation in high dimensions. *Advances in Computational Mathematics*, 44(2): 477–503, April 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9557-5`.

Wang:2017:PGT

[WZL17] Tongke Wang, Zhiyue Zhang, and Zhifang Liu. The practical Gauss type rules for Hadamard finite-part integrals using Puiseux expansions. *Advances in Computational Mathematics*, 43(2): 319–350, April 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9487-7`.

Wu:2021:AOP

[WZM21] Cong Wu, Xiaochen Zeng, and Na Mi. Adaptive and optimal pointwise deconvolution density estimations by wavelets. *Advances in Computational Mathematics*, 47 (1):??, February 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09844-z`.

Wu:2016:FHA

[WZtX16] Gang Wu, Lu Zhang, and Ting ting Xu. A framework of the harmonic Arnoldi method

for evaluating φ-functions with applications to exponential integrators. *Advances in Computational Mathematics*, 42(3):505–541, June 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9433-0`.

Wang:2021:PEE

[WZzS21] Xuping Wang, Qifeng Zhang, and Zhi zhong Sun. The pointwise error estimates of two energy-preserving fourth-order compact schemes for viscous Burgers' equation. *Advances in Computational Mathematics*, 47(2):??, April 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09848-9`.

Xiao:2005:MSA

[XB05] S. P. Xiao and T. Belytschko. Material stability analysis of particle methods. *Advances in Computational Mathematics*, 23(1–2):171–190, July 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-1817-5`.

Xiao:2013:MCC

[XH13] Junmin Xiao and Qiya Hu. Multilevel correction for collocation solutions of Volterra integral equations with proportional delays. *Advances in Computational Mathematics*, 39(3–4):611–644, October 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9294-3`.

Xiang:2015:EBF

[XHC15] Shuhuang Xiang, Guo He, and Yeol Je Cho. On error bounds of Filon–Clenshaw–Curtis quadrature for highly oscillatory integrals. *Advances in Computational Mathematics*, 41(3):573–597, June 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9377-9`.

Xiang:2013:CQV

[Xia13] Dao-Hong Xiang. Conditional quantiles with varying Gaussians. *Advances in Computational Mathematics*, 38(4):723–735, May 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9257-5`.

Xie:2008:ENE

[Xie08] Hehu Xie. Extrapolation of the Nédélec element for the Maxwell equations by the mixed finite element

method. *Advances in Computational Mathematics*, 29(2): 135–145, August 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9047-2`.

Xiong:2015:IES

[XKY15] Xiaogang Xiong, Ryo Kikuuwe, and Motoji Yamamoto. Implicit Euler simulation of one-dimensional Burridge–Knopoff model of earthquakes with set-valued friction laws. *Advances in Computational Mathematics*, 41(6):1475–1493, December 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9398-4`.

Xu:2010:SND

[XL10] Huilin Xu and Jijun Liu. Stable numerical differentiation for the second order derivatives. *Advances in Computational Mathematics*, 33 (4):431–447, November 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9132-9`.

Xu:2024:CPS

[XLL24] Hang Xu, Song Li, and Junhong Lin. Convergence of projected subgradient method with sparse or low-rank constraints. *Advances in Computational Mathematics*, 50(4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10163-2`.

Xie:2026:PEE

[XLW26] Ruiyi Xie, Wenjie Liu, and Boying Wu. Pointwise error estimates for Legendre spectral differentiation of functions with limited regularity in fractional spaces. *Advances in Computational Mathematics*, 52 (4):??, August 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10328-1`.

Xiao:2010:LNI

[XP10] Quan-Wu Xiao and Zhi-Wei Pan. Learning from non-identical sampling for classification. *Advances in Computational Mathematics*, 33 (1):97–112, July 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-009-9123-x`.

Xu:2026:NMC

[XPY26] Hengrui Xu, Kejia Pan, and Xiaofeng Yang. A new magnetic-coupled binary phase-field crystal model

and its efficient fully discrete decoupled energy-stable scheme. *Advances in Computational Mathematics*, 52 (3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10313-8`.

Xu:1998:MCF

[Xu98] Yuan Xu. Minimal cubature formulae for a family of radial weight functions. *Advances in Computational Mathematics*, 8(4):367–380, June 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018964818105`.

Xu:2000:PIS

[Xu00] Yuan Xu. Polynomial interpolation in several variables, cubature formulae, and ideals. *Advances in Computational Mathematics*, 12(4): 363–376, March 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018989707569`. Multivariate polynomial interpolation.

Xu:2004:AMH

[Xu04a] Yuan Xu. Approximation by means of h-harmonic polynomials on the unit sphere. *Advances in Computational Mathematics*, 21 (1–2):37–58, July 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/B:ACOM.0000016433.27278.2a`.

Xu:2004:PIU

[Xu04b] Yuan Xu. Polynomial interpolation on the unit sphere and on the unit ball. *Advances in Computational Mathematics*, 20(1–3):247–260, January 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1025851005416`. Approximation and applications.

Xu:2014:LTE

[Xu14] Da Xu. The long time error analysis in the second order difference type method of an evolutionary integral equation with completely monotonic kernel. *Advances in Computational Mathematics*, 40(4): 881–922, August 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9331-2`.

Xiao:2013:SLA

[XWL13] Yunhai Xiao, Soon-Yi Wu, and Dong-Hui Li. Splitting and linearizing augmented Lagrangian algo-

rithm for subspace recovery from corrupted observations. *Advances in Computational Mathematics*, 38(4): 837–858, May 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9261-9`.

Xu:2012:PSI

[XY12] Yuesheng Xu and Hongqi Yang. Preface [Special issue: Numerical methods for ill-posed problems]. *Advances in Computational Mathematics*, 36(2):153–156, February 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9269-1; http://link.springer.com/content/pdf/10.1007/s10444-011-9269-1.pdf`.

Xie:2015:ASF

[XY15] Hehu Xie and Xiaobo Yin. Acceleration of stabilized finite element discretizations for the Stokes eigenvalue problem. *Advances in Computational Mathematics*, 41 (4):799–812, August 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9386-8`.

Xie:2020:CCF

[XY20] Shusen Xie and Su-Cheol Yi. A conservative compact finite difference scheme for the coupled Schrödinger–KdV equations. *Advances in Computational Mathematics*, 46 (1):??, February 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09758-2`.

Xu:2021:MCA

[XYZ21] Fei Xu, Meiling Yue, and Bin Zheng. Multilevel correction adaptive finite element method for solving non-symmetric eigenvalue problems. *Advances in Computational Mathematics*, 47 (2):??, April 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09849-8`.

Xu:2001:LPF

[XZ01] Jinchao Xu and Aihui Zhou. Local and parallel finite element algorithms based on two-grid discretizations for nonlinear problems. *Advances in Computational Mathematics*, 14(4):293–327, May 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1012284322811`.

Xu:2003:AWM

[XZ03] Yuesheng Xu and Qingsong Zou. Adaptive wavelet methods for elliptic operator equations with nonlinear terms. *Advances in Computational Mathematics*, 19(1–3):99–146, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1022816511874`. Challenges in computational mathematics (Pohang, 2001).

Xie:2024:ANI

[XZ24] Ziqing Xie and Shangyou Zhang. On an accurate numerical integration for the triangular and tetrahedral spectral finite elements. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10173-0`.

Xu:2025:NPD

[XZ25] Xuejun Xu and Shangyou Zhang. A nonconforming P3+B4 and discontinuous P2 mixed finite element on tetrahedral grids. *Advances in Computational Mathematics*, 51(4):??, August 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10244-w`.

Xu:2026:DPT

[XZZ26] Yufeng Xu, Ying Zhu, and Zhoushun Zheng. A direct parallel-in-time finite difference solver for quenching combustion problem. *Advances in Computational Mathematics*, 52 (2):??, April 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10286-8`.

Yan:2001:PEE

[Yan01] Ningning Yan. *A posteriori* error estimators of gradient recovery type for elliptic obstacle problems. *Advances in Computational Mathematics*, 15(1–4):333–361, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014284306804`. *A posteriori* error estimation and adaptive computational methods.

Yan:2003:PEE

[Yan03] Ningning Yan. *A posteriori* error estimators of gradient recovery type for FEM of a model optimal control problem. *Advances in Computational Mathematics*, 19(1–3):323–336, July 2003. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1022800401298. Challenges in computational mathematics (Pohang, 2001).

Yano:2019:DGR

[Yan19] Masayuki Yano. Discontinuous Galerkin reduced basis empirical quadrature procedure for model reduction of parametrized nonlinear conservation laws. *Advances in Computational Mathematics*, 45(5–6):2287–2320, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-019-09710-z.

Yao:2016:CAM

[Yao16] Xudong Yao. Convergence analysis of a minimax method for finding multiple solutions of hemivariational inequality in Hilbert space. *Advances in Computational Mathematics*, 42(6):1331–1362, December 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9465-0.

Yao:2019:LSM

[Yao19] Xudong Yao. A Ljusternik–Schnirelman minimax algorithm for finding equality constrained saddle points and its application for solving eigen problems: part I. Algorithm and global convergence. *Advances in Computational Mathematics*, 45(1):269–310, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9616-6.

Yan:2021:KAF

[YB21] Wen Yan and Robert Blackwell. Kernel aggregated fast multipole method. *Advances in Computational Mathematics*, 47(5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09896-1.

Yang:2024:SAF

[YCQZ24] Fang Yang, Jiecheng Chen, Tao Qian, and Jiman Zhao. A sparse approximation for fractional Fourier transform. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10127-6.

Yang:1997:EAM

[YDF97] Geng Yang, Michel C. Delfour, and Michel Fortin. Error analysis of mixed finite elements for cylindrical

shells. *Advances in Computational Mathematics*, 7(3): 261–277, May 1997. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018998903567`.

Ye:2000:SFE

[Ye00] Xiu Ye. Stabilized finite element approximations for the Reissner–Mindlin plate. *Advances in Computational Mathematics*, 13(4):375–386, December 2000. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1016693613626`.

Ye:2004:DSE

[Ye04] Xiu Ye. Discontinuous stable elements for the incompressible flow. *Advances in Computational Mathematics*, 20 (4):333–345, May 2004. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1027363218427`.

Yemm:2022:DAE

[Yem22] Liam Yemm. Design and analysis of the Extended Hybrid High-Order method for the Poisson problem. *Advances in Computational Mathematics*, 48(4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09958-y`.

Yang:2023:HQA

[YF23] Yuning Yang and Yunlong Feng. Half-quadratic alternating direction method of multipliers for robust orthogonal tensor approximation. *Advances in Computational Mathematics*, 49 (2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10014-6`.

Guo:2010:CLL

[yGjW10] Ben yu Guo and Tian jun Wang. Composite Laguerre–Legendre spectral method for exterior problems. *Advances in Computational Mathematics*, 32(4): 393–429, May 2010. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9112-5`.

Guo:1998:AMA

[yGmW98] Ben yu Guo and Yuan ming Wang. An almost monotone approximation for a nonlinear two-point boundary value problem. *Advances in Computational Mathematics*, 8(1–2):65–96, January 1998. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (elec-

tronic). URL http://link.springer.com/article/10.1023/A:1018983927675.

Guo:2009:LGC

[yGqW09] Ben yu Guo and Zhong qing Wang. Legendre–Gauss collocation methods for ordinary differential equations. *Advances in Computational Mathematics*, 30(3): 249–280, April 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-008-9067-6.

Guo:2008:IAT

[yGS08] Ben yu Guo and Jie Shen. Irrational approximations and their applications to partial differential equations in exterior domains. *Advances in Computational Mathematics*, 28(3):237–267, April 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-006-9020-5.

Guo:2003:SPA

[yGSlX03] Ben yu Guo, Jie Shen, and Cheng long Xu. Spectral and pseudospectral approximations using Hermite functions: application to the Dirac equation. *Advances in Computational Mathematics*, 19(1–3):35–55, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1022892132249. Challenges in computational mathematics (Pohang, 2001).

Guo:2007:EAS

[yGW07] Ben yu Guo and Li-Lian Wang. Error analysis of spectral method on a triangle. *Advances in Computational Mathematics*, 26(4): 473–496, May 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-005-7471-8.

Yuan:2025:DPW

[YH25] Long Yuan and Qiya Hu. A discontinuous plane wave neural network method for Helmholtz equation and time-harmonic Maxwell's equations. *Advances in Computational Mathematics*, 51 (2):??, April 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10229-9.

Ying:2007:CAO

[Yin07] Yiming Ying. Convergence analysis of online algorithms. *Advances in Computational Mathematics*, 27(3):273–291, October 2007. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-9002-z`.

Yashtini:2019:EAM

[YKZ19] Maryam Yashtini, Sung Ha Kang, and Wei Zhu. Efficient alternating minimization methods for variational edge-weighted colorization models. *Advances in Computational Mathematics*, 45(3): 1735–1767, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09702-z`.

Yang:2024:USA

[YL24a] Huaijun Yang and Meng Li. Unconditional superconvergence analysis of a structure-preserving finite element method for the Poisson–Nernst–Planck equations. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10145-4`.

Yu:2024:BRS

[YL24b] Yajie Yu and Hanyu Li. A block-randomized stochastic method with importance sampling for CP tensor decomposition. *Advances in Computational Mathematics*, 50(2):??, April 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10119-6`.

Yang:2012:EAB

[YLBL12] Yidu Yang, Qun Lin, Hai Bi, and Qin Li. Eigenvalue approximations from below using Morley elements. *Advances in Computational Mathematics*, 36(3): 443–450, April 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9185-4`.

Yesypenko:2024:STL

[YM24] Anna Yesypenko and Per-Gunnar Martinsson. SlabLU: a two-level sparse direct solver for elliptic PDEs. *Advances in Computational Mathematics*, 50(4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10176-x`.

Yoon:2001:CAA

[Yoo01] Jungho Yoon. Computational aspects of approximation to scattered data by using "shifted" thin-plate splines. *Advances in Computational Mathematics*, 14 (4):329–359, May 2001. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1012205804632`.

Yang:2023:USE

[YS23] Huaijun Yang and Dongyang Shi. Unconditionally superconvergent error estimates of a linearized Galerkin finite element method for the nonlinear thermistor problem. *Advances in Computational Mathematics*, 49 (3):??, June 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10038-y`.

Yang:2020:SGR

[YTL+20] Ying Yang, Ming Tang, Chun Liu, Benzhuo Lu, and Liuqiang Zhong. Superconvergent gradient recovery for nonlinear Poisson–Nernst–Planck equations with applications to the ion channel problem. *Advances in Computational Mathematics*, 46 (6):??, December 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09819-6`.

Yu:2024:FNS

[Yu24] Pu-Ting Yu. Frame-normalizable sequences. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10182-z`.

Ying:2012:LCG

[YWC12] Yiming Ying, Qiang Wu, and Colin Campbell. Learning the coordinate gradients. *Advances in Computational Mathematics*, 37(3): 355–378, October 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9211-6`.

Yang:2024:UFE

[YX24a] Fanyi Yang and Xiaoping Xie. An unfitted finite element method with direct extension stabilization for time-harmonic Maxwell problems on smooth domains. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10148-1`.

Yang:2024:LBF

[YX24b] Shunfeng Yang and Shuhuang Xiang. Local behaviors of Fourier expansions for functions of limited regularities. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10136-5.

Yin:2023:SCA

[YXM23] Daopeng Yin, Yingying Xie, and Liquan Mei. The stability and convergence analysis of finite difference methods for the fractional neutron diffusion equation. *Advances in Computational Mathematics*, 49(5):??, October 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10070-y.

Yue:2022:MNM

[YXX22] Meiling Yue, Fei Xu, and Manting Xie. A multilevel Newton's method for the Steklov eigenvalue problem. *Advances in Computational Mathematics*, 48 (3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-022-09934-6.

Yu:2025:SAE

[YY25] Shuang Yu and Hongqi Yang. Stable approximate evaluation of unbounded matrix operator and its application to an inverse problem. *Advances in Computational Mathematics*, 51(3):??, June 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10235-x.

Ye:2008:LAG

[YZ08] Gui-Bo Ye and Ding-Xuan Zhou. Learning and approximation by Gaussians on Riemannian manifolds. *Advances in Computational Mathematics*, 29(3):291–310, October 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-007-9049-0.

Ye:2013:FSI

[YZ13] Weicai Ye and Yongdong Zhang. A fast solver for integral equations with convolution-type kernel. *Advances in Computational Mathematics*, 39(1):45–67, July 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9268-2.

Ye:2021:SFP

[YZ21] Xiu Ye and Shangyou Zhang. A stabilizer-free pressure-robust finite element method for the Stokes equations. *Advances in Computational Mathematics*, 47(2):??, April 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL

https://link.springer.com/article/10.1007/s10444-021-09856-9.

Yu:2023:DLT

[YZ23] Zhan Yu and Ding-Xuan Zhou. Deep learning theory of distribution regression with CNNs. *Advances in Computational Mathematics*, 49 (4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10054-y.

Ye:2024:OTS

[YZ24] Xiu Ye and Shangyou Zhang. Order two superconvergence of the CDG finite elements for non-self adjoint and indefinite elliptic equations. *Advances in Computational Mathematics*, 50 (1):??, February 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10100-9.

Yuan:2025:SFA

[YZ25] Lele Yuan and Ye Zhang. A scaling fractional asymptotical regularization method for linear inverse problems. *Advances in Computational Mathematics*, 51 (1):??, February 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10222-2.

Yang:2020:NCC

[YZB20] Yidu Yang, Yu Zhang, and Hai Bi. Non-conforming Crouzeix–Raviart element approximation for Stekloff eigenvalues in inverse scattering. *Advances in Computational Mathematics*, 46 (6):??, December 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09818-7.

Ye:2024:NAO

[YZLL24] Xiao Ye, Xiangcheng Zheng, Jun Liu, and Yue Liu. Numerical analysis for optimal quadratic spline collocation method in two space dimensions with application to nonlinear time-fractional diffusion equation. *Advances in Computational Mathematics*, 50(2):??, April 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10116-9.

Zheludev:2010:CIS

[ZA10] Valery A. Zheludev and Amir Z. Averbuch. Computation of interpolatory splines via triadic subdivision. *Advances in Computational Mathematics*, 32(1): 63–72, January 2010. CODEN ACMHEX. ISSN 1019-

7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9087-2`.

Zaabouli:2026:WPI

[ZAL26] Ziad Zaabouli, Lekbir Afraites, and Amine Laghrib. Well-posedness for an improved time-fractional reaction–diffusion systems. *Advances in Computational Mathematics*, 52 (3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10307-6`.

Zampieri:2026:CNS

[Zam26] Elena Zampieri. A comparative numerical study of spectral properties in isogeometric collocation and Galerkin methods for acoustic waves. *Advances in Computational Mathematics*, 52 (1):??, February 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10281-z`.

Zala:1999:WAP

[ZB99] Cedric A. Zala and Ian Barrodale. Warping aerial photographs to orthomaps using thin plate splines. *Advances in Computational Mathematics*, 11(2–3):211–227, November 1999. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1018928026708`. Radial basis functions and their applications.

Zhang:2012:NIG

[ZB12] Qinghui Zhang and Uday Banerjee. Numerical integration in Galerkin meshless methods, applied to elliptic Neumann problem with non-constant coefficients. *Advances in Computational Mathematics*, 37(4):453–492, November 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9216-1`.

Zampini:2022:HDM

[ZBT+22] Stefano Zampini, Wajih Boukaram, George Turkiyyah, Omar Knio, and David Keyes. H2Opus: a distributed-memory multi-GPU software package for non-local operators. *Advances in Computational Mathematics*, 48 (3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09942-6`.

Zhao:2014:RPE

[ZC14] Jikun Zhao and Shaochun Chen. Robust a posteriori error estimates for conforming discretizations

of a singularly perturbed reaction–diffusion problem on anisotropic meshes. *Advances in Computational Mathematics*, 40(4):797–818, August 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9327-y`.

Zimmermann:2024:RGM

[ZC24] Ralf Zimmermann and Kai Cheng. Randomized greedy magic point selection schemes for nonlinear model reduction. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10172-1`.

Zhang:2021:QFV

[ZCB21] Yuanyuan Zhang, Chuanjun Chen, and Chunjia Bi. A quadratic finite volume method for nonlinear elliptic problems. *Advances in Computational Mathematics*, 47(3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09853-y`.

zuCastell:2007:PIU

[zCFX07] Wolfgang zu Castell, Noemí Laín Fernández, and Yuan Xu. Polynomial interpolation on the unit sphere. II. *Advances in Computational Mathematics*, 26(1–3):155–171, January 2007. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-005-7510-5`.

Zhang:2020:EBL

[ZCL20] Fan Zhang, Jian Cheng, and Tiegang Liu. Exponential boundary-layer approximation space for solving the compressible laminar Navier–Stokes equations. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09776-0`.

Chen:2009:DAM

[zCpST09] Hua zhu Chen, Jin ping Song, and Xue-Cheng Tai. A dual algorithm for minimization of the LLT model. *Advances in Computational Mathematics*, 31(1–3):115–130, October 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9097-0`.

Zhao:2020:IAM

[ZCY20] Fei Zhao, Xia Cui, and Guangwei Yuan. Iterative acceleration methods with

second-order time accuracy for nonlinear diffusion equations. *Advances in Computational Mathematics*, 46 (1):??, February 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09756-4`.

Zhao:2014:JPC

[ZD14] Lijing Zhao and Weihua Deng. Jacobian-predictor–corrector approach for fractional differential equations. *Advances in Computational Mathematics*, 40(1):137–165, February 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9302-7`.

Zhao:2016:HOF

[ZD16] Lijing Zhao and Weihua Deng. High order finite difference methods on non-uniform meshes for space fractional operators. *Advances in Computational Mathematics*, 42 (2):425–468, April 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9430-3`.

Zhang:2017:NAF

[ZD17] Zhijiang Zhang and Weihua Deng. Numerical approaches to the functional distribution of anomalous diffusion with both traps and flights. *Advances in Computational Mathematics*, 43(4): 699–732, August 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9503-y`.

Zeng:2018:DTS

[ZD18] Chao Zeng and Jiansong Deng. On the dimension of trivariate spline spaces with the highest order smoothness on 3D t-meshes. *Advances in Computational Mathematics*, 44(2): 423–451, April 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-017-9551-y`.

Zeng:2019:LHV

[Zen19] Xianyi Zeng. Linear hybrid-variable methods for advection equations. *Advances in Computational Mathematics*, 45(2):929–980, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9647-z`.

Zhu:2016:ARM

[ZG16] Hongqiang Zhu and Zhen Gao. An *h*-adaptive RKDG method with troubled-cell indicator for one-dimensional

detonation wave simulations. *Advances in Computational Mathematics*, 42(5):1081–1102, October 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9454-3`.

Zhang:2012:NAS

[ZGGW12] Deyue Zhang, Yukun Guo, Chengchun Gong, and Guan Wang. Numerical analysis for the scattering by obstacles in a homogeneous chiral environment. *Advances in Computational Mathematics*, 36 (1):3–20, January 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-010-9169-9`.

Zhang:2022:FDS

[ZGV22] Yabin Zhang, Adrianna Gillman, and Shravan Veerapaneni. A fast direct solver for integral equations on locally refined boundary discretizations and its application to multiphase flow simulations. *Advances in Computational Mathematics*, 48 (5):??, October 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09974-y`.

Zhang:2025:TLD

[ZH25] Qi Zhang and Pengzhan Huang. Two-level discretization of the 3D stationary Navier–Stokes equations with damping based on a difference finite element method. *Advances in Computational Mathematics*, 51 (4):??, August 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10255-7`.

Zhang:2001:PEE

[Zha01] Zhimin Zhang. *A posteriori* error estimates on irregular grids based on gradient recovery. *Advances in Computational Mathematics*, 15(1–4):363–374, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1014221409940`. *A posteriori* error estimation and adaptive computational methods.

Zhang:2005:PWF

[Zha05] Zhihua Zhang. Periodic wavelet frames. *Advances in Computational Mathematics*, 22(2):165–180, February 2005. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-3139-z`.

Zhang:2014:SFV

[Zha14] Tie Zhang. Superconvergence of finite volume element method for elliptic problems. *Advances in Computational Mathematics*, 40 (2):399–413, April 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9313-4`.

Zheludev:2006:ISS

[Zhe06] Valery A. Zheludev. Interpolatory subdivision schemes with infinite masks originated from splines. *Advances in Computational Mathematics*, 25(4):475–506, November 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-4149-6`.

Zheng:2023:MMC

[Zhe23] Chao Zheng. Multilevel Monte Carlo simulation for the Heston stochastic volatility model. *Advances in Computational Mathematics*, 49 (6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10076-6`.

Zhou:2025:RTF

[Zho25] Zehui Zhou. On the recovery of two function-valued coefficients in the Helmholtz equation for inverse scattering problems via neural networks. *Advances in Computational Mathematics*, 51 (1):??, February 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10225-z`.

Zhou:2026:SFV

[Zho26] Yanhui Zhou. A symmetric Q_1-finite volume element scheme for anisotropic diffusion problems on unstructured convex quadrilateral meshes. *Advances in Computational Mathematics*, 52 (3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-026-10318-3`.

Zhu:2015:SLC

[Zhu15] Wei Zhu. Simulation of liquid crystal elastomers using Chebyshev spectral method with a new preconditioner. *Advances in Computational Mathematics*, 41(4):853–879, August 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9389-5`.

Zhu:2019:FOI

[Zhu19] Wei Zhu. A first-order image denoising model for stair-

case reduction. *Advances in Computational Mathematics*, 45(5–6):3217–3239, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09734-5`.

Zhi:2016:HWM

[ZhXpZ16] Shi Zhi, Yan hua Xu, and Jun ping Zhao. Haar wavelets method for solving Poisson equations with jump conditions in irregular domain. *Advances in Computational Mathematics*, 42(4):995–1012, August 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-015-9450-z`.

Zhang:2019:SCR

[ZHY19] Yidan Zhang, Yunqing Huang, and Nianyu Yi. Superconvergence of the Crouzeix–Raviart element for elliptic equation. *Advances in Computational Mathematics*, 45(5–6):2833–2844, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09714-9`.

Zhang:2021:PEE

[ZHzSR21] Qifeng Zhang, Jan S. Hesthaven, Zhi zhong Sun, and Yunzhu Ren. Pointwise error estimate in difference setting for the two-dimensional nonlinear fractional complex Ginzburg–Landau equation. *Advances in Computational Mathematics*, 47(3):??, June 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09862-x`.

Zhou:2006:APK

[ZJ06] Ding-Xuan Zhou and Kurt Jetter. Approximation with polynomial kernels and SVM classifiers. *Advances in Computational Mathematics*, 25(1–3):323–344, July 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7206-2`.

Zhang:2023:AHO

[ZJ23] Gengen Zhang and Chaolong Jiang. Arbitrary high-order structure-preserving methods for the quantum Zakharov system. *Advances in Computational Mathematics*, 49(6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10074-8`.

Zhang:2021:CSM

[ZJZ21] Hui Zhang, Xiaoyun Jiang,

and Fanhai Zeng. An H^1 convergence of the spectral method for the time-fractional non-linear diffusion equations. *Advances in Computational Mathematics*, 47 (5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09892-5`.

Zheng:2016:IFA

[ZL16] Xiaoming Zheng and John Lowengrub. An interface-fitted adaptive mesh method for elliptic problems and its application in free interface problems with surface tension. *Advances in Computational Mathematics*, 42(5):1225–1257, October 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9460-5`.

Zhang:2017:SSS

[ZL17] Jin Zhang and Xiaowei Liu. Supercloseness of the SDFEM on Shishkin triangular meshes for problems with exponential layers. *Advances in Computational Mathematics*, 43(4): 759–775, August 2017. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9505-9`.

Zheng:2020:SBE

[ZL20] Bing Zheng and Peng Lv. Structured backward error analysis for generalized saddle point problems. *Advances in Computational Mathematics*, 46(2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09787-x`.

Zheng:2021:EAS

[ZL21] Nan Zheng and Xiaoli Li. Error analysis of the SAV Fourier-spectral method for the Cahn–Hilliard–Hele–Shaw system. *Advances in Computational Mathematics*, 47(5):??, October 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-021-09897-0`.

Zhan:2024:ITE

[ZL24] Weijun Zhan and Yuyuan Li. The improvement of the truncated Euler–Maruyama method for non-Lipschitz stochastic differential equations. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10131-w`.

Zhu:2024:ALM

[ZLH+24] Hong Zhu, Xiaoxia Liu, Lin Huang, Zhaosong Lu, Jian Lu, and Michael K. Ng. Augmented Lagrangian method for tensor low-rank and sparsity models in multi-dimensional image recovery. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10170-3`.

Zhang:2023:RBF

[ZLPX23] Yongle Zhang, Guoyin Li, Ting Kei Pong, and Shiqi Xu. Retraction-based first-order feasible methods for difference-of-convex programs with smooth inequality and simple geometric constraints. *Advances in Computational Mathematics*, 49(1):??, February 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-10002-2`.

Zappon:2023:ECS

[ZMQ23] Elena Zappon, Andrea Manzoni, and Alfio Quarteroni. Efficient and certified solution of parametrized one-way coupled problems through DEIM-based data projection across non-conforming interfaces. *Advances in Computational Mathematics*, 49 (2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-10008-w`.

Zhang:2018:LLR

[ZN18] Erchuan Zhang and Lyle Noakes. Left Lie reduction for curves in homogeneous spaces. *Advances in Computational Mathematics*, 44(5):1673–1686, October 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9601-0`.

Zozulya:2015:RDI

[Zoz15a] V. V. Zozulya. Regularization of divergent integrals: a comparison of the classical and generalized-functions approaches. *Advances in Computational Mathematics*, 41(4):727–780, August 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9399-3`.

Zozulya:2015:RAR

[Zoz15b] V. V. Zozulya. RETRACTED ARTICLE: Regularization of divergent integrals: An approach using generalized functions. *Advances in Computational*

Mathematics, 41(4):953, August 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9321-4`; `http://link.springer.com/content/pdf/10.1007/s10444-013-9321-4.pdf`.

Zampieri:2006:ESO

[ZP06] Elena Zampieri and Luca F. Pavarino. An explicit second order spectral element method for acoustic waves. *Advances in Computational Mathematics*, 25(4):381–401, November 2006. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-004-7626-z`.

Zhang:2019:OAE

[ZP19] Ran Zhang and Gerlind Plonka. Optimal approximation with exponential sums by a maximum likelihood modification of Prony's method. *Advances in Computational Mathematics*, 45(3):1657–1687, June 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09692-y`.

Zampieri:2024:CSP

[ZP24] Elena Zampieri and Luca F. Pavarino. Conditioning and spectral properties of isogeometric collocation matrices for acoustic wave problems. *Advances in Computational Mathematics*, 50(2):??, April 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10113-y`.

Zhang:2003:EMU

[ZPR03] Lei Zhang, Haesun Park, and J. Ben Rosen. Exponential modeling with unknown model order using structured nonlinear total least norm. *Advances in Computational Mathematics*, 19(1–3):307–322, July 2003. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1023/A:1022881907141`. Challenges in computational mathematics (Pohang, 2001).

Zhang:2015:LTS

[ZPY15] Tong Zhang, Damazio Pedro, and JinYun Yuan. A large time stepping viscosity-splitting finite element method for the viscoelastic flow problem. *Advances in Computational Mathematics*, 41(1):149–190, February 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9353-4`.

Zhang:2025:ESE

[ZPY25] Guo-Dong Zhang, Kejia Pan, and Xiaofeng Yang. Energy-stable and efficient finite element schemes for the Shliomis model of ferrofluid flows. *Advances in Computational Mathematics*, 51 (4):??, August 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10249-5`.

Zhu:2013:ARM

[ZQ13] Hongqiang Zhu and Jianxian Qiu. An h-adaptive RKDG method with troubled-cell indicator for two-dimensional hyperbolic conservation laws. *Advances in Computational Mathematics*, 39(3–4):445–463, October 2013. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-012-9287-7`.

Zheng:2022:SCS

[ZQS22] Bo Zheng, Jin Qin, and Yueqiang Shang. Stability and convergence of some parallel iterative subgrid stabilized algorithms for the steady Navier–Stokes equations. *Advances in Computational Mathematics*, 48 (3):??, June 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09950-6`.

Zhang:2024:FRC

[ZR24] H. Zhang and V. Rokhlin. Finding roots of complex analytic functions via generalized colleague matrices. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10174-z`.

Zampa:2023:UFF

[ZRR23] Enrico Zampa, Ana Alonso Rodríguez, and Francesca Rapetti. Using the FES framework to derive new physical degrees of freedom for finite element spaces of differential forms. *Advances in Computational Mathematics*, 49(2):??, April 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-10001-3`.

Zhao:2026:LCE

[ZRW26] Xinyu Zhao, Hongxing Rui, and Gang Wang. A locally conservative enriched virtual element method for elliptic problems. *Advances in Computational Mathematics*, 52(3):??, June 2026. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.`

springer.com/article/10.1007/s10444-026-10308-5.

Zhu:2021:CTB

[ZS21] Xiaojing Zhu and Hiroyuki Sato. Cayley-transform-based gradient and conjugate gradient algorithms on Grassmann manifolds. *Advances in Computational Mathematics*, 47(4):??, August 2021. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-021-09880-9.

Zhao:2024:CMF

[ZS24a] Mohan Zhao and Kirill Serkh. A continuation method for fitting a bandlimited curve to points in the plane. *Advances in Computational Mathematics*, 50 (4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10144-5.

Zheng:2024:TSD

[ZS24b] Bo Zheng and Yueqiang Shang. A three-step defect-correction stabilized algorithm for incompressible flows with non-homogeneous Dirichlet boundary conditions. *Advances in Computational Mathematics*, 50 (1):??, February 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10101-8.

Zhang:2001:SFE

[ZSB01a] L. Zhang, T. Strouboulis, and I. Babuška. η%-superconvergence of finite element solutions and error estimators. *Advances in Computational Mathematics*, 15(1–4):393–404, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1014267804986. *A posteriori* error estimation and adaptive computational methods.

Zhang:2001:PEF

[ZSB01b] L. Zhang, T. Strouboulis, and I. Babuška. *A posteriori* estimators for the FEM: analysis of the robustness of the estimators for the Poisson equation. *Advances in Computational Mathematics*, 15(1–4):375–392, November 2001. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1023/A:1014232321825. *A posteriori* error estimation and adaptive computational methods.

Zheng:2015:PUP

[ZSHZ15] Haibiao Zheng, Lina Song, Yanren Hou, and Yuhong Zhang. The partition of unity

parallel finite element algorithm. *Advances in Computational Mathematics*, 41(4): 937–951, August 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9392-x`.

Zeng:2019:FVD

[ZST19] Xianyi Zeng, Mashriq Ahmed Saleh, and Jianjun Paul Tian. On finite volume discretization of infiltration dynamics in tumor growth models. *Advances in Computational Mathematics*, 45(5–6):3057–3094, December 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-019-09727-4`.

Zak:2014:NSC

[ZT14] Mohammad Khorsand Zak and Faezeh Toutounian. Nested splitting CG-like iterative method for solving the continuous Sylvester equation and preconditioning. *Advances in Computational Mathematics*, 40(4): 865–880, August 2014. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-013-9330-3`.

Zhang:2015:SFV

[ZT15] Tie Zhang and Lixin Tang. A stabilized finite volume method for Stokes equations using the lowest order P_1–P_0 element pair. *Advances in Computational Mathematics*, 41(4):781–798, August 2015. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-014-9385-9`.

Zheng:2022:ACE

[ZTHW22] Chaowen Zheng, Zhuochao Tang, Jingfang Huang, and Yichao Wu. An $O(N)$ algorithm for computing expectation of N-dimensional truncated multi-variate normal distribution II: computing moments and sparse grid acceleration. *Advances in Computational Mathematics*, 48 (6):??, December 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09988-6`.

Zhang:2008:SCE

[ZV08] Chengjian Zhang and Stefan Vandewalle. Stability criteria for exact and discrete solutions of neutral multidelay-integro-differential equations. *Advances in Computational Mathematics*, 28(4):383–399, May 2008. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-007-9037-4`.

Zeng:1995:NSI

[ZVW95] S. Zeng, C. Vuik, and P. Wesseling. Numerical solution of the incompressible Navier–Stokes equations by Krylov subspace and multigrid methods. *Advances in Computational Mathematics*, 4(1–2): 27–49, December 1995. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/BF02123472`.

Zheng:2012:NRM

[ZW12] G. H. Zheng and T. Wei. A new regularization method for a Cauchy problem of the time fractional diffusion equation. *Advances in Computational Mathematics*, 36 (2):377–398, February 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-011-9206-3`.

Zeng:2019:DIR

[ZW19] Chao Zeng and Chunlin Wu. On the discontinuity of images recovered by noncovex nonsmooth regularized isotropic models with box constraints. *Advances in Computational Mathematics*, 45(2):589–610, April 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-018-9629-1`.

Zhou:2020:UAC

[ZW20] Yanhui Zhou and Jiming Wu. A unified analysis of a class of quadratic finite volume element schemes on triangular meshes. *Advances in Computational Mathematics*, 46 (5):??, October 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09809-8`.

Zhang:2022:UEB

[ZW22] Teng Zhang and Tingchun Wang. Uniform error bound of a conservative fourth-order compact finite difference scheme for the Zakharov system in the subsonic regime. *Advances in Computational Mathematics*, 48(4):??, August 2022. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-022-09944-4`.

Zhang:2023:UCA

[ZW23a] Yuqing Zhang and Xiang Wang. Unified construction and L^2 analysis for the finite volume element method over tensorial meshes. *Advances in Computational Mathematics*, 49(1):??, February 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.`

springer.com/article/10.1007/s10444-022-10004-0.

Zhou:2023:AFE

[ZW23b] Zhaojie Zhou and Qiming Wang. Adaptive finite element approximation of optimal control problems with the integral fractional Laplacian. *Advances in Computational Mathematics*, 49 (4):??, August 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10064-w. See correction [ZW23c].

Zhou:2023:CAF

[ZW23c] Zhaojie Zhou and Qiming Wang. Correction to: Adaptive finite element approximation of optimal control problems with the integral fractional Laplacian. *Advances in Computational Mathematics*, 49 (5):??, October 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-023-10071-x. See [ZW23b].

Zhang:2025:OGF

[ZW25] Xuelin Zhang and Hanquan Wang. An orthonormal gradient flow for computing ground state solution of two-dimensional dipolar fermion gas. *Advances in Computational Mathematics*, 51 (4):??, August 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-025-10248-6.

Zeng:2016:DSS

[ZWDD16] Chao Zeng, Meng Wu, Fang Deng, and Jiansong Deng. Dimensions of spline spaces over non-rectangular T-meshes. *Advances in Computational Mathematics*, 42(6):1259–1286, December 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-016-9461-4.

Zwick:1994:PMA

[Zwi94] D. Zwick. A planar minimax algorithm for analysis of coordinate measurements. *Advances in Computational Mathematics*, 2(4):375–391, September 1994. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/BF02521605.

Zhou:2019:TNM

[ZWZ19] Xuanxuan Zhou, Tingchun Wang, and Luming Zhang. Two numerical methods for the Zakharov–Rubenchik equations. *Advances in Computational Mathematics*, 45 (3):1163–1184, June 2019.

CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9651-3.

Zou:2012:GBE

[ZXC12] Bin Zou, Zongben Xu, and Xiangyu Chang. Generalization bounds of ERM algorithm with V-geometrically ergodic Markov chains. *Advances in Computational Mathematics*, 36(1):99–114, January 2012. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL http://link.springer.com/article/10.1007/s10444-011-9182-7.

Zhang:2024:ATF

[ZXL24] Xiaodi Zhang, Jialin Xie, and Xianzhu Li. Analysis of a time filtered finite element method for the unsteady inductionless MHD equations. *Advances in Computational Mathematics*, 50 (6):??, December 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-024-10215-7.

Zhang:2020:NIU

[ZY20] Jun Zhang and Xiaofeng Yang. Non-iterative, unconditionally energy stable and large time-stepping method for the Cahn–Hilliard phase-field model with Flory–Huggins–de Gennes free energy. *Advances in Computational Mathematics*, 46 (3):??, June 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-020-09793-z.

Zhang:2018:SOU

[ZYB18] Guo-Dong Zhang, Jinjin Yang, and Chunjia Bi. Second order unconditionally convergent and energy stable linearized scheme for MHD equations. *Advances in Computational Mathematics*, 44 (2):505–540, April 2018. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-017-9552-x.

Zhang:2019:HWF

[ZYC19] Yuanyuan Zhang, Min Yang, and Chuanjun Chen. The hybrid Wilson finite volume method for elliptic problems on quadrilateral meshes. *Advances in Computational Mathematics*, 45(1):429–452, February 2019. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL https://link.springer.com/article/10.1007/s10444-018-9623-7.

Zhang:2016:OCS

[ZYY16] Hui Zhang, Ming Yan, and Wotao Yin. One condition for solution unique-

ness and robustness of both ℓ_1-synthesis and ℓ_1-analysis minimizations. *Advances in Computational Mathematics*, 42(6):1381–1399, December 2016. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-016-9467-y`.

Zhou:2009:HOP

[ZZ09] Xiang-Jun Zhou and Ding-Xuan Zhou. High order Parzen windows and randomized sampling. *Advances in Computational Mathematics*, 31(4):349–368, November 2009. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `http://link.springer.com/article/10.1007/s10444-008-9073-8`.

Zhang:2020:NVE

[ZZC20] Bei Zhang, Jikun Zhao, and Shaochun Chen. The nonconforming virtual element method for fourth-order singular perturbation problem. *Advances in Computational Mathematics*, 46 (2):??, April 2020. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-020-09743-9`.

Zhang:2024:NAT

[ZZCC24] Fengshan Zhang, Yongkui Zou, Shimin Chai, and Yanzhao Cao. Numerical analysis of a time discretized method for nonlinear filtering problem with Lévy process observations. *Advances in Computational Mathematics*, 50(4):??, August 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10169-w`.

Zheng:2025:IPM

[ZZD25] Xiaoming Zheng, Kun Zhao, and Dapeng Du. An iterative projection method for unsteady Navier–Stokes equations with high Reynolds numbers. *Advances in Computational Mathematics*, 51 (5):??, October 2025. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-025-10257-5`.

Zhang:2024:MPH

[ZZL+24] Hong Zhang, Gengen Zhang, Ziyuan Liu, Xu Qian, and Songhe Song. On the maximum principle and high-order, delay-free integrators for the viscous Cahn–Hilliard equation. *Advances in Computational Mathematics*, 50 (3):??, June 2024. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-024-10143-6`.

Zhan:2023:ITG

[ZZP23] Jiajun Zhan, Liuqiang Zhong, and Jie Peng. Iterative two-grid methods for discontinuous Galerkin finite element approximations of semilinear elliptic problem. *Advances in Computational Mathematics*, 49(6):??, December 2023. CODEN ACMHEX. ISSN 1019-7168 (print), 1572-9044 (electronic). URL `https://link.springer.com/article/10.1007/s10444-023-10082-8`.