A Complete Bibliography of Publications in
Numerical Algorithms

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Title word cross-reference

(0, 2) [MP08]. (1, 1) − q [MPC12]. (1 − x)α(1 + x)β + Mδ(x + 1) + Nδ(x − 1)
[KW96]. (3, 3) [KCHD16]. (A, B) [KP96a]. (k, l) [Gut15]. (R₁, R₂, R₃)
[IDAV09]. (w, p, u) [Ouaa99], −2 < α < [DJ18]. 0 < q < 1 [Mah10]. 1
[ATM19, Bea98, BCJ99, ICR06, JV98, Moh10, MK17, Pas92]. 1/9
[MM00]. 11 [HvD93]. 13 [DL21]. 2 [AM98b, AEF⁺14, CJ17, CG19, DSH11,
DL21, EL01, JV98, LZIL20, Sal17, TC05, ZYX19, ZYLN18]. 28 [Mar04b]. 3
[CL00, FHC21, GH09c, LG08, MFK⁺15, PMO05, ZJ08, ZS19]. 5(2)
[RSKB17]. 3 × 3 [HN16, HM19b]. 4 [CVX16, NB16, PT18, Wri01, ZXRL11].
4 × 4 [KH18]. 5 [LMUZ19]. 7 [MV02]. 8 [MV02]. [-1, 1] [The12, TV17]. [0, 1]
[VC92]. n [Ple03]. T [Orb15]. \( \Phi_1((c, \gamma) \alpha, \beta) \) \( \eta_j \) [DDL09]. 3 \( F_2(−n, b, c; z) \)
[DJ02], 4 \( F_3 \) [DL01]. 4
[But02a, FYYW19, MT13, MT14, MT19, ZD15, But96, Con93].
A(p)X = B(p) [DMD16, Pop18b]. AᵀA [Tou98].
A₁X₁B₁ + A₂X₂B₂ + ⋅⋅⋅ + AₖXₖBₖ = C [hPwL09].

1
\[ A_1 X_1 B_1 + A_2 X_2 B_2 + \cdots + A_t X_t B_t = C \] [Pen13]. \[ A_t X B_t = F_t \] [TPY14]. \[ A_n \] [Sid20a], \[ A_{k,S}^2 \] [Sol15, MGL20]. \[ \alpha \] [Gar19, HY21, IAH20, MA15, MP14, PDRG19]. \[ \gamma \] [Kal00]. \[ PFT98, ADN17, BHM05, BX19, CL11, CSFC04, Ern00, GL20, ML10, Col92]. \[ \gamma \] [Don13, HKKN12, Lor19, Sha02, Sha19, LB93, Li95, Sid20a, WZ15a, dDL92]. \[ \gamma \] [Cou15a, Cou15b, GLL19, San19]. \[ \gamma \] [Cve06, CK06, LZ14, WPL18, Bar13, BX19]. \[ \gamma \] [But19, Cha14, GEP16, HZX20, LL16, LDL17, Mi17, FJT94, Gre96, Lai92, MR939, Rab92b, Rab92c, Str93]. \[ \beta \] [AL15, MP14]. \[ \beta < -1 \] [DJ18]. BiCgStab(\( I \)) [SvF94]. \[ C_0 \] [LY18]. \[ C_1 \] [LRZ12, Ga93]. \[ C_2 \] [LM01, MS96]. \[ C_k \] [MS01a, MST03, NS01]. \[ C^a \] [ARTY20]. \[ \cos(z) \] [VC00]. \[ d \] [MDH16, dR99]. \[ D^m \] [GLRSG08]. \[ D_\infty \] [MM08a]. \[ \Delta^2 \] [Sab92a]. \[ \Delta_1 \] [MS01a]. \[ \Delta_1 \] [CL13b]. \[ E \] [Bag16, GS19a, MP92]. \[ E_\infty(x) \] [NP18]. \[ \epsilon \] [BRZ17, BRZ19, CGM93, GCF95, Le 92, Mat92, MN11, Sal96]. \[ f(A)b \] [Dea15]. \[ G \] [But15, Hili10, SCS18, YAT20]. \[ G_1 \] [Poc14, CLaL00]. \[ G_{k,l} \] [GLW16]. \[ \gamma \] [Kar00]. \[ GC^2 \] [Hvd09]. \[ H \] [Cve06, CK06, LZ14, WPL18, Bar13, BX19]. \[ \gamma \] [FHC21, LR18, LZL20, ZJ14, GM06]. \[ H_1 \] [Ber93]. \[ H_1 \] [DHS97, DI11]. \[ H_1 \] [RWTW19]. \[ |h| \] [CVX16]. \[ i \] [Fue07]. \[ \infty \] [PW14]. \[ k \] [BCLL00, HVM17, OLB94, Wat93, Wat94]. \[ L \] [BM14, CMRS00b, CRS04]. \[ L_1 \] [ART14]. \[ L_2 \] [LC20, MG11b, BM94]. \[ L_2^2(0) \] [AT19]. \[ L_2 \] [LI10, Cro03]. \[ L_1 \] [GGN17, GGN18, MG18, AGN07, Gaj05, PW04, AS06, AS08, BL93, BL95, GH95]. \[ L_1 C_1 \] [GGN14]. \[ L_2 \] [MG18, Meu05, KLZ95]. \[ L_2(0,1) \] [Dea15]. \[ \gamma \] [Hil17]. \[ \gamma \] [Wat94]. \[ LDM \] [TS92]. \[ M \] [GL04, Guo13, Lao99, PWCS18, Rab92b, Rab92c, TH20]. \[ R^2 \] [AVE20]. \[ R^2 \] [AHL20]. \[ B \] [CHY19]. \[ \mathcal{H} \] [LLQ17, XZZ19a, XZZ19b, LW20]. \[ \mathcal{H}_+ \] [WCW20]. \[ \mathcal{M} \] [BHLZ11]. \[ MB \] [CLWV15]. \[ N \] [Don13, HKKN12, Lor19, Sha02, Sha19, LB93, Li95, Sid20a, WZ15a, dDL92]. \[ \nu \] [KK00]. \[ O(b^6) \] [RG10]. \[ O(n) \] [Khe16, MR09, Pol10]. \[ O(n^2) \] [Gom99, Gom01]. \[ \omega \] [JM00]. \[ Orthomin(k) \] [Tou98]. \[ P \] [IUM+19, KS20, PFT98, ADN17, BHM05, BX19, CL11, CSFC04, Ems00, GL20, ML10, Col92]. \[ P_r(n) \] [Khe14, SD20]. \[ P_r(n) \] [AM13]. \[ P_1 \] [OMW21]. \[ F_n \] [DJ18]. \[ \pi \] [Kal00]. \[ \psi \] [JM00]. \[ q \] [AH17, CW08, GA08, GS19b, LGA+00, LW18, LQ16, Mah10, MP14, MAK20, Ost07, SC18, dDL92, KL19]. \[ q > 1 \] [Ost07]. \[ q \] [DMS09, DS12, EAB20]. \[ QR \] [Hua18, BH92b]. \[ R \] [Chk20, WK13, Gaj05, HW00]. \[ r > 1 \] [ARTY20]. \[ R_1^3 \] [Ca10]. \[ R_3^d \] [Gaj05]. \[ R_n \] [Wat06]. \[ R_1^2 \] [BPR20]. \[ J \] [Hom98b]. \[ S \] [SKK21, SCS18, MAL04, Tou98, ZGW18]. \[ S \] [BLLS21]. \[ \sigma \] [HC00]. \[ t \] [THL92]. \[ \theta \] [LDL19, ZAG92]. \[ \theta_2 \] [Sab92a]. \[ \theta_3 \] [Sid20a]. \[ u \] [AL15]. \[ \varepsilon \] [Ber14, SGM02]. \[ \varphi \] [JP14, LCL21, MWsC19]. \[ \gamma \] [Thr92]. \[ W \] [BBM08, Guar11a, Joh20]. \[ W_\infty \] [Kow00, Kow00]. \[ X = Q + A^H (I \otimes C)^s A \] [YLD11]. \[ x^a \] [VC92]. \[ y^m + M y = f(y) \] [LDW18]. \[ y'' = f(x,y,y') \] [JSF13]. \[ y'' = f(y(t)) \] [DEP12]. \[ y''(t) = f(t,y(t)) \] [LW16]. \[ Z \] [Cou15a, Cou15b, GLL19, San19]. \[ Z \times aZ^n \] [KR07].

-acceptability [Col92]. -accretive [THS20]. -Algorithm

1 [BRS92, DJM+18]. 14 [Tov98]. 1994 [BV96]. 1st [DMRT03].

2D [Mil20, SzS21].

3.0 [Han99].

4.0 [Han07].

5 [CP95b]. 5.2 [Han99].
7.3 [Han07].

8 [CZ95].

92j [BRS92]. 95i [CZ95]. 97 [Ano98d]. 98c [Tov98].

Algorithm [BD02, BD04a, BS04, CM01, CCG01, CSFC04, DZ01, DR04, Dos03a, DL04, Gom01, HSZ03, HC03, KS14, KPKG04, LWJ17, MP02, MN01, OKP21, PS01, PW04, Rob02, Sab03, SG02, SBW98, SC03b, Ska13, Tmi02, Van03, AGS08, AG15, AA16b, ASW06, AS08, ALV20, AZ19a, AC94a, Alt21, ART19, AKB15, AM98a, AT12, AHL20, AJMP11, And06, An08, And10, And14b, And15, And18b, Ant18, AM13, AE18, BHL21, BBC21, BC94, BG11, BD17a, BCK06, BRG509, BE17, Ber14, BM09, BH2b, BD00, BSF17, Bos21, BL93, BL95, BC16, BP93, BM09, BS91, BZ94, BRZ19, BK16b, BK08, BF93, CL92, CDT10, CMM19, CFR06, CP95a, CM99, CF05, CE94, CS94, CC06, CHHL18, CHH +20, CPZ14, CC18, CM96, CRN19, CJC99, Cho17, CGM93, Cor91].

Algorithm [CHH93, CPS12, DDS93, DWZ14, DW15a, DW15b, Dax09, DB98, DY93, DTI09, Den14a, DM21, DEM94, DGL06, DLYH17, DMS09, DS12, DF01, EG19, EAB20, EEM20, EM07, EO94, EG94, FLMR99, FGL19, FM93, FC01, FDV13, FY1 +12, FS21, Gaj05, GGV96, GV99, GM16, GS19a, GH06, GH09a, GJ17, GL12, GWW15, Gha18, Gom01, GCCF05, GM97, GI10, GLW13, GZP18, Guo96, Guo16, GE20, Haj16a, HW00, HP18a, HHL21, HA16, Hie18, Hie19, HM16, Hom92, HM18b, HM19a, HFW +21, IR13, JL12, Jbi93, JJ13, JL16, Jia20a, JRRS08, KST06, Kar10, Ke21, Khe12a, Khe12b, Khe14, Khe17, KMA13, KLS17, KLR07, La 17, LM11, LV15, Le 92, LDN16, LM00, LL93, LLZ94, LWM10, LH20a, LILH1D07, LH20b, LL00, LS07, LLY15, LLLD17, LQ20, MD21, MR09, Md12].

Algorithm [Mat91, MP92, Mat92, Mel01, MS17, MSS18, MEJS19, Meu97, Mei99, Mei05, Mei09a, MS14a, Mei20, MMU20, MK94, Moh10, ML19, MvS09, MN92, NIN12, NP18, gOM14, O0011, PSS10, Pan20, PS06, Pet01, PH14, PCD20, PS09, Plo93, PW16, Pol10, PPV09, QZG +19, QXG20, Rah11a, RT20, Rob98, Sad99, Sal96, SD20, SA14, SIE16, SDMMK18, SH17, SJJ14, Sop15, SZ99, SU14, mTLbJL14, Tom92, Tou98, Tra93, VH10, VH12, VZ93, Vep08, WZZ16, Wan17, WGG18b, WCH15, WZ14, XZL12, XYZ14, XTH07, XW17, Yak94, Yan17, YCL17, YLL20, Ye96, YC +19, YY13, Zaz02, ZYG17, ZLQT19, ZH19, ZDSY20, ZLLC11, ZWTK21, dCOS21, dAR06, dC20, van93].
algorithmic [LM11, SAE19]. Algorithms [Ano93, Ano95c, AHKW04, BFGM03, BHMO5, Bou17, Bre04, CGR12, CZ95, CLaL00, CP95b, DHJJ10, DF94, DHMS16b, EGSV04, GPP01a, Gau11b, HR03a, HSS04, JMS16, MCG+04, NRS12, Sas93, Tov98, dSCS04, AN17, ART14, AL09, AV19, AMR15, Ari98, AHKW05, BFKA11, BS21, BBQO07, BFK11, BVLP16, Bra96, BRS91, BRZ98, BRZ17, BN18, BK10, Bous17, CS16, CSH17, Cal20, CPP14, CB13, CK20, CH11, CvsP15, Ccw21, CMWP20, DM98b, DG17, DHF21, DB06, Dur93, El 18, FHH05, FH05, GA08, GGN14, GMZ19, GPGC98, GST17, GL21, GLS+18, HS20, HH05, HZ95, HR00, Ihs07, Iva17, IUM+19, JK19, JM18b, KPF96a, Kar09, Kar13, KJC18, KPC20, KD18, KSW09, Kuh13, LY18, LL20b, Luc06, LHW13, MP99, MVV05a, MR92, Mii18]. algorithms [Oar94, PKC18, PP16, PT17, PLH20, Pop18a, RTD+21, RR00, RW11, Sab91, SCD+21, SKK21, Sal94, Sal05, SW10b, SH18, SSN+12, Smi09, SW05, SJJW21, Sp01, SBfJC19, TG20, Tales93, Tem97, TH19a, TH19b, Thr92, Vuc97, Wz11, Wim99, WWM21, XZZ19b, Yan18, YWS20, ZTW19, ZFF19, le 91, Pop19, PP17]. Almost [DM21, GMP92, GL19, LML17b, AAAA+18, BDH+13, CEX14, DFJP10, FHC21, HvD93, Van07]. almost-uniform [FHC21]. Along [CG03, DF94]. alternate [OdZdR13]. Alternating [BCN+16, BF17, HR05, JHLL15, LZZ19, Lui02, ZF19, AC19, Bous21, Bru93, CTS09, CHe19, Cui13, HS16, JN99, LWZ18, LRL19, Ma20, NSM20, Now19, RTMT21, TYSY20, WLMA21, Zha15, ZZY18]. alternating-direction [WLMA21]. Alternatives [HHLS21, SU14]. Always [GA15, Gal18]. American [CL10a]. Ampère [BS19, SG10]. amplitude [Lin98, Lyn08]. amplitude-phase [Lin98]. amplitudes [Pan96]. analogue [HT16]. analogues [GA08]. analyses [LXZZ21, ZJ08]. Analysis [ABJ20, Bac21, Bel03, BH01, BV96, DL08, DAM16, DZ13, DFF04, Flo03, GL04, HK06, Ila20, Ks18a, KK16, LVo1, L196, Lin09, MM12, RS02, Sad05, SJ14, SJW21, We18, ZLW+13, ZKD04, AS10, AJ13, AG15, ALZ21, AR09, AH10, AMK96, BD09, BD10, BVV14, BC05a, Be99, BF00, Bd95, CWZ13, CR09, Ca02, CM09, CWL16, CCJ18, CWHL20, CDS20, Cou15a, Cou15b, Cui13, Das19, DJM+18, EG18, EHN17a, EHN17b, FY13, FHH05, FY1+12, GM20, GKL21, GS16b, Van12, Van17, GS21, GLS+18, Han94, HSTW14, He18, HD18, HZ20, HM19b, Ihs07, Iva17, KCBT21, Kt21, KL17, KPC20, KG14H, KKA17, LK20, LSX10, LW14, LM14, LZ15, LZ18b, Lin16, LGP11, LLLD17, LRY18, LWS18, LS20, LRM16, MA16, MP99, MV13, MV14, Man10, MR12, MM09b]. analysis [MZ19, Mns20, MSMS12, Mot14, NIC12, NV21, NEMS14, NAA19, PK18, PH14, Pis16, PZ20, RO8, RA12, RK11, SP21, SLW13, SMK14, SL21, SDMK18, Sm19, ST98, Van19, VH92, WSK14, Van15a, WZQ17, WXQ20, Wim00, WWD+12, WC13, XXW17, YWS20, ZCT19, ZJZ20, ZD21, ZFX14, ZWX19, ZL17, ZLWQ09, ZLTA16, dC20]. Analytic [CCLi16, SVZ01, Ash19, AP21, GS19b, Van17, HW18, HSL19, Pas99, Petr95, XCL15, Yk94]. Analytical [AG03, WXQ20, YX11, AS11, ALB+18, AHC05, BC17, CS12, GPAA14, HV15, KM09, LJ11, MFK+15, MS12, QLZX11].
analytical-numerical [GPAA14, HV15]. Analyticity [Cro03]. Anchoring [Hag13]. and/or [FHH96, GLRSG08]. Anderson [And19a, HS16]. André [Bre06a]. Andrei [DW15b, DW15a, ZDSY20]. anharmonic [EAGS20]. Anisotropic [vLV02, CTS09, LHW13, Ywa21, ZHY13a]. annihilator [Con15a, Con15b]. annihilators [MJF09]. Announcement [Ano00c].


Application [CDF99, CP93, CP95b, DH04, GM03, HR14, KH11, PG05, RBN14, Rec01, SC03b, TC05, AA15, AB08, ÁCl11, ALRT16, AG00, BGRS09, BQ19, BHS14, BH17, Ber14, Bou17, BZ18, Brn93, CHH93, Cro92, CBGVPP09, DPP19, DNR15, Gás99, Gau12a, Gau13a, GHP+00, HVMT17, Ila20, JJB17, Jia20b, LPXX19, MMV19, MK17, MP13, MSS11, Orb15, Pen98, PLH20, PPR15, PR93, RVF07, SK19, USAF14, VH92, VL19, WLL12, XyJi16, XZW13, XW17, Yak95, ZHT15, BE98]. Applications [IMT02, MAL04, PL04, dFS04, vdHS02, AHJ17, ALW98, AR18, ABT07, AMKV96, Arn97, BJNR20, BF18, Ber10, BZ91, BS92, BM96, BR08, BR27, CM98, CRV91, CK06, Dah93, DG17, DJS20, EDA12, FLG08, GCFF95, HL17, JS15, KAED18, LS14, LG08, LEO08, LWCL13, LZZ19, MJB17, MA15, MR93, MM08b, MM09a, MZ19, MS11, Mvs09, MA12, Oar94, OOR12, OB16, RB21, ROB18, SKK21, SIO20, SS11b, SKJ+18, TG20, Tas93, TA96, VS19, Wal94, dAR06, dBGKR08, Dra96].

Approach [CR03a, Jay02, LM04, AM01, GS16b, IHST19, MPS20, PRV120, RSZ20, SS+19a, SH20]. Approaches [MHZ05, AAB13, AE18, CB16, Kuh13, LP18, LL20c].

Approximating [AH03, AF94, AT17, Bag16, DV01, Gar19, HC03, MT19, PDRG19, SR06, VB96, Yak94, ASS11, Ash19, AP21, CM05, FR07, LX17, SCTP00].
[All03, Ano95c, BG03a, CN01, CP01b, Cro03, Dkb04, GCGF03, GLRSG08, GM03, Gro93, HL02, KLT03, Kva01, LM00, LRZ12, MN01, MAK20, PP05, PW04, PV03, RS93, SVZ05, Str02, VGM96, Wit96, ZKD02, AMH10, AMA21, ALZ20, And97, AG00, AGRT05, AAD14, BC06, BF20, BEJ20, Ber93, BK97, BG13, BM96, CCV07, CT03, CB13, CR20, CLT +13, Cuy00, CY10, Daz99, Des17, Die08, Dri93, Dun94, FJG00, FZ07, FM19, FM93, FT05b, Gaj05, GGN14, GGNF17, GA20, GH09b, GH95, Gla01, Gug96, GTA19, GI97, HH11, Haj16b, HW00, HGVP92, Ho05, IAH20, IDAV09, IL05, JK18, JKK97, Kall00, KJ18, KADE18, KLS17, KLM07, LWK12, LWK07, LCW20, LSM16, LWZ21, Lya97, MSCB93, Maj13, ME95, MS15, NCC11, Ost07, hPwL09, PGGC97].

**approximation** [PS00, Prz09, Prz16, RIAA19, RS20, RS06, Reb97, Rei97, SI13, SS11b, SWG20, The12, TV19, Thi93, TIS20, VH10, VC92, Wat92, Wat93, Wat94, XH20, XLC93, YD09, YH21, ZWW20, ZZ18, dBGKR08, van93, Ano92, Ano93, DH18]. **Approximations** [EKM03, Sab03, Zil01, AB99, ART19, AGG17, Ber10, But96, CS12, Col92, Ell93, ED13, FW13, GV99, HV15, JKNR13, JL15, Lig93, LM15, Mac96, MK17, RB21, Riz18, Rob97, Sch14, SLA11, TV17, VQL07, WQ20, Xu19, YZ21, YX11, ZWX19]. **Arbitrary** [MKO04]. **Arbitrarily** [MKO04]. **artificial** [Ano95b, LHR20]. **ART** [FGC19]. **ART-like** [FGC19]. **artifacts** [HOW95]. **artificial** [Ano95b, LHR20]. **AR** [But98]. **Armijo** [DW12, SW11]. **Arnoldi** [AHJ17, Che04, DBGB11, FEL15, NR14, TM14]. **array** [ZLL +21]. **articulation** [LL08]. **attachment** [BM00]. **attenuation** [St95]. **attraction** [GHPMGR14, Par16]. **attractor** [MMU20]. **attractors** [JMS16, KS97, dCOS21]. **augmentation** [Cao12]. **Augmented** [BE98, HSS04, BRR13, BW13, FGC19, HZ15, JCL16, TYSY20, Wit96, XYW19].
Author [Ano01a, Ano01b, Ano02a, Ano02b, Ano04a]. Automatic [Coo03, FRJT09, HR03b, Hof16, Maj18, Mar93, PSH11, Sód02, TRRD02, CPZ14, EQ04, EG94, HS96, JL12, Moo07, RC14, SL15b, SL15a, TY21].

automatically [AC19, Fan15, MN17, Spa07, Spa20]. averaging [BRZ18, DXY18, RZ16, XYH07]. Avoiding [BS91, BRS91, BRS92, GMS99].

B [AZ19a, AG19, BLS06, DLR12, Gau17b, MST03, Maz05b, Maz09b, MT06, NS01, PZL15, Rad08, Rei97, WZ19, XL14]. B-spline [AZ19a, DLR12, Gau17b, Maz05b, PZL15, Rei97, WZ19, XL14]. B-Splines [NS01, BLS06, MST03, Maz09b, Rad08]. backtracking [And06]. Backward [IM02, Pot19, TTV21, WK20, ALV20, BC16, Cho16, Mil19, NB1A17, Pan18, SB21, SSP15, SZ20, YW17, YJ21, ZWW21, ZL17]. backward/forward [ZL17]. backwards [Sza92]. Bacteria [Car01, SL21]. Bagley [Mok16].

Bakhvalov [NV21], balanced [AH15, BCL00, CMM17, HH12, Kao20, LS15b]. ball [ACH14]. Banach [Jai17, CSI16, CSI17, CRN19, Cho16, HM14, IAH20, Jai16, JM18b, LCI21, MWc19, PG12, PDRG19, SSS14, SIE16, SC18, SCS18, TAM21, Tak17, TB19, THT19, VA20, WGK11, WKG11, WK12, WK17, YAT20, ZG12a, ZG12b]. Band [BO03, SC03a, ANI17, DS12, FC01, LAz99, RSCH19, Soo15]. Banded [BM12, IMT02, JBBB17, AAAA18, DMT19, DPP19, EG19, EN94, JRB17, KD14]. Bandlet [MP07]. bandlimited [Gor18, IP16]. Bandwidth [DR01, FLT09]. banks [Tur94]. barrier [CWZ13, Khe12a]. Barycentric [Bal11, JKK+08, Ber93, Ber00, LC14]. Barzilai [HLZ14, H15b, LLS11, MR96, MP16].

Based [CR02, CPV04, Dos03a, GDP01b, KPFG04, MT04, WDDY04, dADdRC04, vGK04, AHP20, AF13, AZ19a, AKB15, AK15, AT12, ASGJ18, AE18, AAD14, AG17, AK15, BKFMA11, BZ13, BBQ007, BF20, Brl96, BN18, BK08, CW13, CR12, CW19a, CISZ14, CK05, CF05, CM16, Che16a, Che19, CDS12, DDS30, DZW14, DG17, Das19, DR07, EH97a, Erb15, ES19, FGM19, FLV14, FM93, FC01, FY112, GHM16, GLLJ12, Gar20, GWW15, GS14, GS16a, HP18a, HHHN07, HMdÅES08, HA16, HST15, HS15, IDS16, IS17, JL12, JH1L15, KST21b, KLT95, KMZ18, Khe12a, KH20, Lev95, LLS11, LY17, LHZ21, Lin01, LLY12, Lin11, LLY15, Lin21, LTP18, MBG19, MRd08, MRS93, MR12, MT13, MT14, MG20, MG21, MSZ20, NAA19, gOM14, PKR20, PH14, QXGZ20, ROB17, RWTW19, Sad99, SKK21, SAE19]. based [SL16, SL18, SB21, SW10b, SJ14, SJW12, Soo15, Str05, TY96, TA13, TD09, VH12, VZ93, VDWJB12, WT08, WL00, WPL18, XYZ14, XCLAI5, XV17, XZP120, YD09, YP09, ZRZ11, Zha11, Zha15, ZD15, ZSF18, ZY13b, ZLV17, ZV19, ZV21, ZL12, DFO1, KST21a].

Bases [Osw01, DLR12, GS16a, LM00, Liu11, Maz99, Maz05b]. Bashforth [MG11a, MJ20]. basic [AAH18]. basins [GHPMGRR14, Par16]. basis [Bar13, Bro05, BX19, CKP19, CLMM05, DS09b, Dze15, HM06, KMA13].
Low05, MMV17, Mel10, Nar05b, NJ13, Pea13, TS18a, UTO07, WZ15b, YH97, ZJ08, ZZL17. Baskakov [MP14]. BB [KP09]. BB-form [KP09]. BBVMs [ZY21]. BDF [EG10, Eba18, Hea10]. be [ICR06, TM20]. beam [QLZX11]. bed [CDF99]. behavior [Bel99, KPB17, Men20, TM14]. Behaviour [KZ03, AA16a, Sab92a]. BEM [ADL05, ADG10, AEF +14]. Benjamin [ZJZ20]. Bernoulli [BBQ07, CD01, ROB17]. Bernstein [Bar13, CW21b, DPS18, Dra00, DMS09, G512a, Her96, IR13, JBB17, KADE18, LWAG08, Mah10, MMV17, Maz99, Maz09a, MAK20, Not08, Ost07, Pej14, TS18a]. Bernstein-type [Maz09a]. BertiniLab [BNN16]. Be\-\text{s}\text{z}el [BB95, HGVP92, LM08, Mi\-u00, S\text{a}f10, Zu19]. Best [GGNF17, GH95, Van92, Zha95, BDR18, Car91, IDAV09, IT93, Kow00, VC92, Wat92, Wat94]. beta [GST17]. better [GTA19]. between [Cha14, DHS09, FLV14, Her96, MdR08, MS12, TAM21, Wen92, ZS19]. beyond [BM09]. Bézier [CFR06, GS16a, GLW16, LWK12, LKW17]. BFS\text{G} [AB99, And18a, BKFMA11, BK16a, BKA19, Deh20, LL07, Liu14, LTP18, VL19, You16]. Bi [YWW12, BC94, CGBV07, PLVB11, SvF94]. Bi-C\text{G} [SvF94]. bi-conjugate [BC94]. bi-objective [PLVB11]. bi-orthogonal [CGBV07]. Bi-parameter [YWW12]. bias [YC\text{W} +19]. bias-compensated [YC\text{W} +19]. bibliography [Gau07]. BiCG\text{Stab} [GM02, Sv95]. bi-confluent [FS16]. biconjugate [ZD15]. bicubic [Bia94, CLAL00]. bidiagonal [CDW95, NIN12, YKY15]. bidiagonalization [BR06, BJPKR20]. BIEs [MS11]. bifurcation [Bea98, CCJ99, Sni97]. Bifurcations [ARJ03, JJK97]. Biharmonic [AEG02, AB06, ALZ20, Bia12, BFKM20, DG17, Gás99, LY18, LKK21, MK17]. Bilevel [ARSS19, dSCS04, Anh19, AT21, TTLD20]. binary [GI10, Str05, XCY21]. binomial [ASVC21]. Binormalization [LG04]. Bi\text{g}o\text{r}\text{a}\text{phic} [AI108]. biomechanical [AB98]. Biorthogonal [Is96, Laz99, Bre99a, IN95]. biorthogonality [Da 92]. Birkhoff [BDS00, BCGVS11, GM92b, MT18, NB16, dS00, dBS00, dBD05]. Bisection [PL99, EL18, Mer92]. bisymmetric [BPW09, YLY12]. Bivari\text{a}t\text{e} [CH95, GM92b, Par16, PS01, SVZ05, ÂFP07, AP21, CG05, DL08, Len93, MMV19, Sch08, Thi93, VC10]. BKM [DR04]. Black [Cia94, Val14, Val15]. blending [BDIR18]. Blind [DMT13, CPN14]. Bloch [CCJC18, Pas99, SYLT14]. Block [Bre02, BZ12, DM21, DP01, EJR02, GL04, GGV02, IS17, Jb03, LS03b, LM21, NJ13, ZS08, AEH20, AHJ17, Bag00, BR06, BCW13, BC06, Bel08, BH92b, BP19, BK16b, CR99, Cao12, CW19b, CK06, DS12, DDRT97, EHTSM21, FP18, FDV13, Hem94, HL17, HM19b, Hua20, JFS13, LRC19, LZ16a, LZ19a, LZ19b, Lin01, LSW16, LXQ15, Meh11, NK16, RKMS16, RR20, RN21, S999, S0015, VL19, WGZ18a, Y696, ZD17, ZFG18, JCF15, CO94]. block-centered [LRC19]. block-diagonalize [Be108]. block-Lanczos [CR99]. block-tridiagonal [Hem94]. blocked [CK20]. blocks [Hem94, HL17]. Blossoming [AH17, GS19b, Maz02, Maz05a, FJ96, GS16a]. blow [Cho17, HZ20, QL12]. blow-up [Cho17, HZ20, QL12]. blowup [CD15].
blue [FS21]. blurring [ED13]. BNS [VL19]. Bodies [Mar04c]. Body [Sha02, Lor19, PPR15, Sha19]. Bona [ZZJ20]. bond [CS12]. Book [Ano95a, Ano97, Ano98a, Ano98b, Ano98c, Ano99a, Ano99b, Ano99c, Ano99d, Ano00a, Ano01c, Ano01d, Ano01e, Ano01f, Ano02c, Ano03a, Ano04b, Ano05a, Ano06, Bre96, Bre97b, Bre97a, Bre97c, Bre97d, Bre00b, Bre03b, Bre06b].


Borges [TS18b]. Borwein [HLZ14, HL15b, LLS11, MR96, MPB16]. Bound [AAAS03, DR01, Dos03a, GA20, LPGL16, Od00]. Boundaries [KGD03].

Boundary [AKW02, AKKW03, Boy05, ED05, FHH05, MT04, Nac03, NMM18, RS06, SC03a, ALQ17, BK18a, ATM19, Ahu09, AR13, AHC05, ABL...12, ABI20, ACH19, AKPW05, AKQ17, Bac18, Bac20, Bac21, BD17a, BQ19, BFK20, BFK11, BSF17, BCI14, CS99, CW14, CH11, CD07, Cro92, DD20, DMC20, DL21, EH97b, EM07, FY13, FH15, GD15b, GX19, Ghe13, Ghe16, Ghe18, Van12, HJJ18, HCL21, JL12, JP14, Kar15, KCHD16, KS12, Kum05, LJ11, LZ09, LS15b, LSW16, LL20, LM21, LRM16, LKKM15, LHW13, MS20a, ML20, MKA14, MMW20, MKF+15, MO19, MN08, ML10, Mot14, NZF11, NM14, Rad08, RS20, RR20, RGJ10, RT19, RB17, SSH19b, TS18a, TBY13, VT10, WZ19, WCM94, YSLH19, YH21, Yse99, Zah09, ZE12, ZA20, ZJ08, ZW12a, ZZY18, ZFX14, ZXL15, ZZB20].

boundary [ZS19, ZS13]. boundary-domain [RT19]. boundary-layer [Mot14].

boundary-type [CD07]. boundary-value [Bac18, Bac20, KS12]. Bounded [LER03, PW04, Ber10, Coo09, Gaj05, MIi00]. boundedness [Lc18].

Bounds [ADGP15, CRS04, Kol06, MW16, AH13, CMRS00a, CLWV15, CCL16, DLL12b, DLL12a, DLL13, Des17, DH18, DPs18, DBGB11, GWL18, GEP14, GEP16, GEP19, GS14, IDS16, JLM16, JLP20, LZ14, LS15a, LL16, LDP17, LZ18a, LCVL18, LWG18, LL20a, LYH+20, Meu97, Meu99, MT13, MT14, MT19, Pej14, PCDH20, RG10, Rum14, SS98, WW19, Yal01, YKY15].


Branch-and-Prune [VR04]. branched [WQ10]. Bratu [KPA20, RMT13].

Brauer [San19]. Brauer-type [San19]. Breakdown [CM96, BS91, BRS91, BRS92, BZ94, DL97, GMS99, Jia20a, TY96].

breakdown-free [Jia00a]. Breakdowns [GM02].


Busemann [Bag16]. Butcher [Kha13]. BVODEs [EM10]. BVP [Fub16, PSS11]. BVPs [AK12, Ghe15, MS13].

C [OBAHK+19, Ple03]. C.B.S. [AAAS03]. C1 [CDF99]. C2 [FKMS01]. C90
circle

CirCles

circuIt

circular

circular/spherical/elliptical

circumcentered

circumcentered-re
nnection

circumcentering

civil

class

classic

Classical

Clenshaw

Clifford

closed

Clustering

Clenshaw [MC05c, SVZ08, SH21].
Clifford [Rob92].
Closed

[CS08, AAAA+18, Ber93].
Closed-form [CS08].
Closest [BE17].
Cloud [XW17].
Clustering [KPF04, ADL05, And18b].
CMRH

[AEP20, Dum13, DHMS16b, Hey01, Sad99].
Co [Erb15, Mar92].
Co-dilated [Erb15].
Co-recursive [Mar92].
Coagulation [Str05].
Coalescence [OKP21].
Coalescing [DPP19].
Coarse [Yse99, Cal20, LC21].
Coarsening [FS21].
Coconvex [NCC11].
Cocycle [KS97].
Code

[AKKW03, DV01, BCJ99, DMC20, Moo07].
Codes [CMR03, CMR93].
Coefficient [ABQ04, BCW13, BQ19, BK13, DP16, GD15a, KS06, MD15].
Coefficients [CR03b, LW04, SVZ01, WDV04, AK12, ASVC21, BK18b, BHS17, DHMS16a, DL09, FYYW19, FHV15, Gau09d, HP18a, Ixa19, Isa21, Jat15, LGA+00, Lie00, Lóc18, MdR08, MdR13, Mwu20, MA016, Mwu01, PP92, Riz18, SL18, SS14, VC10, Wai15b, Wym99, Wr95, ZW14].
Coercive [GM20].
Cognitive [XW17].
Coherent [MPC12].
Cohesiveness [But15].
Coiflet [AK12].
Coiflets [XYL18].
Coiled [BQ19].
Colliding [KN21a, KN21b].
collinear [Ah98].
Collocation

[AKW02, AKKW03, BK04, DM03, Fun01, HSZ03, ZXF14, AB06, ATM19, ASS13, BB14a, Bh16, Bia94, BK13, BF17, BFKM20, BC114, CKP19, CS99, CDD10, DFJP10, Fab16, FHS12, FH15, Gh13, Ghe16, Gu20, Hei06, KP96b, Kar13, KR11, LM21, ML20, Sal17, SCTP00, SC20, WZ19].
Color

[DMZ20].
coloured [ZYW17].
Column [NK21, EHN17a, EHN17b].
Column-action [EHN17a, EHN17b].
Column-oriented [NK21].
Columnar

[YSLH19].
Columns [MP92].
Combination [You16, HHHN07].
Combinations [FM15, combinatorial [Wim00].
Combined

[FT05b, HPS13, LDL+19, MCIx16, ZYGQ17, Zha19].
Combining
[BF93, LZ18a, NB16]. Comment [Don16, ZDSY20]. Comments
[And19a, CB16, DW15a, DW15b]. common [Den14b, FGM19, LCL21,
PKC19, PKC18, RZ16, RT20, SDMK18, TAM21, Tak17, THT19, ZH19].
commutative [Sal94], commutator [CO19], commuting [MZ99].
Comonotone [NCC11], Compact [MA13, BKF20, CMWP20, Cui13,
DMA09, DZ13, KMV17, LILZ21, LZW20, MCIXzJe16, MDL15, RSCH+19,
SzS21, Wan15b, Wan19, YJX15, ZP17, ZZB20]. companion [FDV13].
Comparative [CN17, SS12b]. Comparison [AFN16, AFN17, HR03b, Sab91,
SU14, ANA14, BBBBC20, CS12, FLV14, HSM96, MP00, MFP07, PZ20].
compensated [YCW+19], competitive [MAS17]. Compiler [ASS04].
complement [Cao12, ST18, TA13]. complementarity
[AJMP11, AM18, AM13, BD06, BZ13, CW19a, CLWV15, CHK14, DLL12b,
DLL12a, DLL13, Don10, GWL18, GE14, GE16, GEP19, HT16, HLZ14,
IJS16, JRRS08, KMSZ18, Ke21, Khe14, Khe16, LLS11, L214, LL16, LY17,
LDL17, LL20a, LYH+20, LHL11, LWW21, MG20, MG21, Nie93, RWTW19,
SG17, SG18, WCW20, WPL18, WK20, XZP+20, YSX19, Zha11, Zha15,
ZZY18, ZYS13b, ZLV17, ZV19, ZV21, ZLLC11]. Complementary
[CDD13, EL08]. Complete [Cac10, KM13, LP18, NV21, Sut09]. completely
[Xu19]. completion [Dax17, DC17, GS19a, GW15, LH12+21]. Complex
[FKMS01, FH04, GST02, JM93, Mat04, MK004, N04, SO1a, ZZ17,
AMH10, AMA21, ANA14, BBC11, BOP98, Be99, BKS13, BV13, CL11,
Car95, CC16a, CW19b, DG17, DS20, DM92, FHH05, FLV14, FM93, For21,
Har20, HSE16, IS17, IT93, JLMP16, Jok20, LW14, LM19, LZ9b, MP08,
PR93, Reb97, Ree92, Riz18, Sab93, SS01b, SSH20, WGG18a, WL17, XW18,
XL20, YWX14, ZD17, ZFG18, ZY19, ZW21, ZML16, ZCG15].
Complex-extrapolated [ZZ17]. complex-symmetric [WL17].
Complex-Valued [Mat04]. complexes [FS20]. Complexity
[AG15, CWZ13, Cor02, PH14, AG19, Ber00, GS21, KD14]. complicated
[JYL21, Yse99]. component [BDL+12, CHS19, HNY+18, PGCGF11].
component-by-component [BDL+12], component-wise [CHS19].
Componentwise [AKMV96, Run14]. Composite
[BE03, GS14, BC94, CS94, HL15b, RW06, ZZ20]. Composition
[Mcl02, BC05b, BC01a, CHMT10b]. Compound
[KM09, HKKN12, MK94, MK97]. compressed [SIO20]. Compressible
[Jan03, CL00, HMS96, KLB10, LRC19, LCW20, Son93, ZYGG17, Zha19].
Compression [DV01, Som05, ART14, ALRT16, DF93, FT05b, LHR20].
Computable [CMRS00a]. Computation
[CGL01, CJTW96, CCK04, DVJB03, DMRT03, DI11, DGST15, EDA12,
Esp05, EAGS20, FH04, FLH04, HR03b, INR01, JC04, LS03a, Lor95, MZ99,
Sab03, SER02, ALW08, AM98a, ASVC21, Bec96, Bel94, BBP17, Bin96,
BMV09, BZ01, BGVH09a, BC09, BGZ20, CR00, CC07, Car95, CBGVPP09,
DH97, DG94, Eba18, EGG08, EL01, FRJ09, FLV14, FC01, Gau11a,
GH09b, HPS97, HSM96, Ixa21, Joh15, Kar00, KV00, KHM20, LZ12, Luc06,
MdR08, Meu97, Meu12, Mil17, MK94, MK97, NZ19, OR17, POP17, Sas93,
Sto93, TBY13, TM10, Uhl09, VB91, YZ17, vdMRS06]. Computational [BD95, Cor02, Cuy00, DH04, Ste20, WLL12, dSCS04, ABG97, ALZ21, BZ18, DS11, DEM94, ES19, Jai16, Jai17, JCF15, Mil13, MMLM20, Mon01, MWWY13, WCB15]. computationally [Liu11, Yan18]. Computations [CR03a, Gla04, ARY17, CHYZ98, CM98, CFL19, FT05a, GS14, KM09, MT98, MdR13, Tsi07, YHZ20]. Compute [WH04, AT19, GJV17, HYW20, HN16, Jia06, VC10, Van07]. computed [ICR06]. Computer [ARJ03, Reb97]. Computers [IM02, PH20, Con93]. Computing [AA12b, BM19, BBPV12, BM06, BS04, DY93, FS20, FHV15, GST02, GST03, GKS04, Gra03, HS03, Joh20, KP96a, LER03, MT06, Sch08, Sut09, TA96, Wal06, AT12, AHL20, BH92b, BK16b, CDT10, CE17, CHHL18, Che94, Eft15a, Eft15b, EG19, EEM20, FDV13, GLM15, GI10, HHST19, HS16, HK17, HJ21, IT93, Iva17, Jia20a, LLZ18, MGL20, Maj18, MVV05a, MSS18, MEJS19, Meu99, MT13, MT14, Mü100, NIN12, Saf10, SL18, SS12a, SS12b, Sol15, Vep08]. Concave [KPFG04]. Concepts [dB07a]. Concerning [CJ04, dB07a]. concerns [SPV20]. concurrent [BBP17]. condensed [Bos21]. Condition [MZW20, And10, ACH19, Bag16, CWL16, CL10b, DL21, Dea15, DS09b, DWX17, DP16, FGP01, Gon16, KP96a, KN21a, KN21b, LLC20, MKA14, MV17, Pie96, WK12, WSK14, WK14, WK16, WK17, Zha20, ZLWQ09, ZCS14]. conditional [G020]. Conditionally [Str02]. Conditioned [RST03, BJKR20, DHS97, Ria16]. Conditioning [CS18, DP01, MT04, Ant18]. Conditions [CG03, ED05, KPT03, Mat01, Ahn09, AABM17, AH09, AH11b, AKQ17, BKP20, BSF17, DDP14, GZ20, Ghe18, GLV05, HVM15, JAY21, JP14, KBC15, KCHD16, Kol06, LAG05, LG08, LZ09, Lin05, MKF+15, MSZ22, MSK18, TBY13, WK15, WZ19, ZZY+14, ZYW17, ZS13]. condution [GD15b, MS14b, WXQ20, ZH21]. conductive [dB07a]. cone [KMZ18, SMZMA18, YYL15]. cones [YLP16]. conference [BV96]. confirmation [ZQL+19]. confluent [AGS08, POP17]. conforming [KP96b]. Congress [Aan92]. Conic [FM04, TO21]. conical [DGST15]. conjecture [KM13]. Conjectured [GL07, Gaul08b, Gaul09c, Gaul09b, Gau11b, Kou07]. Conjectures [CD00, LR14, dB07a]. conjugacy [CL10b, LK20]. Conjugate [Ben99b, DLL04, WZ16, WSY04, AK19, And08, And10, And14b, And15, And18b, AK00, BKFMA11, BKG15, BC94, BF14, BE20, BE98, BF99b, BK08, CMRS00a, CS94, CL10b, DW12, DW15a, DW15b, DMA19, Don16, FHH96, GS14, Haj16a, HM18b, JMI13, Jön93, JMI97, LLL18, Liu11, LWQR15, LTP18, Men97, Men99, Men05, MT13, MT14, Men20, Pla99, WHS20, YCL17, YHS18, YWS20, Zha09, ZW12b, Zha20, ZWG18, ZDSY20]. conjugate-gradient [FHH96]. connected [DM98a]. Connecting [SER02, DFK97, LZ12]. Connection [MdR08, MdR13, Wim99, CLaL00]. connections [Tov97, Tov98]. connectivity [CL96b]. conquer [KKM20, MVV05a]. conservation [AC17, Sar06]. Conservative [CG20, HVMT17, LRC19, LH2Z0a, WH15]. conserving [BS14, LZW20].
Consistent [HL03, Sch09, AM98a, EL01, HK14, Hom94, Hom98a, SL18].
Constancy [TD09]. **Constant** [AAAS03, AH11c, Che16a, Dra00, Kar00, Odl00, Sin07, Yak95]. **constants** [CYIB12]. **Constrained** [ANO95c, CT93, CPN14, Dos03a, Gom01, LKW17, ME95, SC03b, ABM10, AFN16, BGRS09, BMR21, BP93, BN18, CB16, CW21a, Car91, CB00, DEM94, Fab16, GO20, GLW16, GLW20, Gu96, KLT95, LWZ18, Lwl20, LpX19, Mbg19, MAS17, MS20b, Nk21, OMW21, Orb15, Odl21, Pen13, Rei98, Rog95, SL18, Seg14, Sei98, Sla06, SG10, mTlBlJL14, Wan18, WCH15, WZS14, WZ15, AFN17]. **constraining** [CPP14]. **constraint** [BPR21, CL96b, DHMS16a, HBP13, LHZ10, LCH20, Pen13, ZRL11].
**Constraints** [Str02, CLGS17, FGBP21, Ga93, HN+18, JR20, JYLC21, LWK12, LWM10, LF19, NPS09, Zha95, ZW20]. **construct** [Hal14]. **constructed** [BD20]. **constructing** [SBW98, YZ17]. **Construction** [BJ98, Bel94, BHS17, BJ04, CHH+20, KPR03, KPT03, LM97, NS01, TS18b, AN15, ANI+17, AUD18, BCL00, BDL+12, Bot17, DR12, God15, Laz99, Lq15, MS01a, Mic91, MRu91, Pas95, Tur94, Wri01]. **constructions** [KSB08]. **Constructive** [MS96, SCTP00, XLC93]. **contact** [Mz19, ZZ20].
**Contents** [An04c]. **contiguous** [Seg08]. **Continuation** [CCJC18, Bz18, CR99, CCJ99, DC17, DFK97, HV98, Lin16, YyD14]. **Continued** [HLM04, Pas03, Van03, Arn97, Ltr95, LM15, LSM16, Mor11, Now06, Now13, Pas92, WQ10, db07b]. **continuity** [WK12, WK17].
**Continuous** [CZ20, DJ10, Jz16, ZXR11, ZLL+21, ABB15a, ABB15b, AV19, BRW11, BX19, CG07b, EJ97a, GGN18, Hy21, JT96, LG19, LT20, Maz09b, S18, Sun94b, ZY21]. **continuously** [LGW14]. **contour** [IDS16, LG08].
**contours** [GLV05]. **contraction** [Cl96a, DLYH17, TVC20, VA20].
**Contractivity** [Cro03, KNBGV18]. **contribution** [XXW17]. **Control** [BD03, BD04a, Cha04, Van12, MV13, Söd02, AJ13, ATM19, ART14, AMR15, ASH21, BKPS93, Bla15, CB16, CW21a, CM96, DT09, DI11, EDAH12, EJ97a, Em10, Fab16, FWC16, FJT94, Hof05, KS06, Kun05, KLR07, LW21, LQ18, LN18, LCH20, Lw17, LP20, MV14, MB06, NPS09, NEMS14, NAA19, OMW21, Pot19, Psw11, Ria16, Sla06, Vh10, VH12, Van19, VS19, WZ14, ZM94, Zzz20, Zz82, Sla06]. **controller** [DH97]. **Controlling** [NK16]. **controls** [PLH20]. **Convection** [Bog02, BS17, BEM99, Che19, CGL99, CJ17, GLLJ12, GH09c, G006, MS20a, NV21, RBN14, RT19, Wan15b, Wan19, YJ18, ZHH15, ZLH21].
**convection-diffusion** [Che19, Cj17, GH09c, G006, NV21, RBN14, RT19, Wan19].
**convection-diffusion-reaction** [BS17]. **convection-diffusion-wave** [Wan15b]. **convection-dominated** [MS20a]. **Convergence** [AVHR17, BD10, BRZ18, BCN+16, BRW11, BE03, CC12, CWHL20, Cj04, Cui13, Dos03a, DL09, Dur93, EHN17a, Fan19, GR01, HK97, He18, HCO3, Ke21, KR07, KMH21, KP03, LWZ21, Ma20, M192, MM09b, Now19, PG12, Pas92, Pas03, Pas08, PLH20, Pop18a, R02, SP21, SHLY18, Sid94,
SDMK18, Šmi09, SBJC19, SX00, THS20, Val15, VS19, WSK14, WK14, WK15, WC13, YLI20, ZY21, Zil01, dDL92, AJ13, AL15, AC17, AABM17, AU08, AH09, AR09, AH10, AM16, AG17, AM18, Ari98, AC19, AK00, BOW21, Bog13, BGVHN96a, CSI18, CZ96, CHHL18, CC15, CL13a, CWL16, CJ17, CHMT10a, CKKT16, Cro92, CKS16, DW12, Das19, Dch20, FLMR99, FT14, GS14, GO20, GM96, Guo13, HVM15, HVMT17, HKK12, Hom92, Hom98a, Hua94, HZ15, HM14, HM14, SDR17.

convergence [Jai16, Jai17, JLP20, KPC20, KL06, KLL10, Kza97, Le92, LZ15, LZ18b, Lin16, LT20, Lin05, LQ20, LSSS15, MA16, MM17, Mat96, Men20, MG11b, MS13, NEMS14, NAA19, Now06, Now13, Osa12, PT19, PKC18, Pas11, PH98, PP06, PR14, RDT+21, RWB09, RA12, RK11, Sab91, Sad05, SS10, SA14, SI17, SS98, Sid20a, Sid20b, SK19, Srv95, Sru97, SSH19b, SH20, TH18b, TVC20, TTLD20, TIS20, TDC21, Vep08, WK11, WK12, WZ13b, WK13, WZZ16, WK16, Wan17, WZQ17, WK17, WCH21, Wei17, Yak95, YWX14, YL19, YWS20, ZW12b, ZJ14, ZD21, ZWG18, ZG12a, ZG12b, ZG09, ZCS14, ZW15, dBo77b, EHN17b, Pop19]. convergence-control [AJ13].

Convergent [BKM03, CCG01, FMD18, Rec01, Rob97, AH08, CEX14, CL93, CG19, CJ20, GA15, Gal18, GLW13, Haa08, Har18, KSB08, KK17, Pie96, Sab92a, Sid07, WBl17, wYN18]. converges [KH18]. convert [KCHD16].

Convex [DM92, EGSV04, KPFG04, KL04, Mar04c, Zil01, AN17, AHL20, AGG17, BCK06, BBCS21, CWZ13, CF96, EL18, GPGC98, GW15, GH95, GWW15, IUM+19, LP18, LF19, MBG19, MS96, PKC18, SPV20, Tan20, WZ11, Zha95]. Convexity [LN95, AT12, BBBC20, BV21, GQ09].

Convolution [Lev95, AA15, Ave20, DL18, Lig93, Mon96, MSS11].

convolutions [JLP20]. Cooperative [BBP17, KW04]. coordinate [BGRS09, BGRS12]. coordinates [ACL11, BW15, JKK+08, dOS07]. corner [MP99]. corners [MD15]. correct [EM10, W11]. converted [AAIT94]. corrected-asynchronous [AAIT94]. Correction [AHKW04, DH18, EDAM13, Gau19, Jan03, KST21a, KN21a, Pop19, ZS03, AHKW05, FLR01, GS16b, GO06, Gug96, HCL21, HK06, MBG19, SI12, VdR13]. Corrector [IW04, Bra06, DZW17, Khe14, MJ17, SMZMA18, SD20, WOO0, ZYLP16].

correlation [HS16, Zhu15]. corresponding [LWG18]. corrupted [LP12].


Crude [WH04]. crystal [LL20c]. CS [KLSS14, Sun09]. Cubature [PS01, BD95, BC00, CDSV11, SVZ08].

Cube [Coo03]. Cubic [CPV04, CMRS01, AB06, AGN07, BK13, BV21, CG07a, CW14, DHO99, Gha16, Kva14, Lin21, PZL15, RA12, WZ19].

d [CG19, ATM19, AEF+14, CL00, CJ17, DL21, FHC21, GH09c, LG08, LZIL20, MFK+15, Moh10, MK17, PM005, PT18, Sal17, TC05, ZJ08, ZYX19, ZYLN18, ZS19]. D-BEM [AEF+14]. DAE [Ano98d, CB16, MW98]. DAEs [AB98, Bea98, BCT15, CHYZ98, CM98, Fab16, HCH18, JV98, LM11, Pen98, Pry98, SL15b, SL15a, SL16, SL18, Jay02, MT98, Sch09, Sin98]. Dahlquist [CKM19]. Dai [AK19, And18b, Zha09]. dampened [BD06, DS21]. Darcian [CW17]. Darcy [LRC19, LHR20, LHW13, YJ18, ZD18]. dark [ZTZZ19]. Data [CMRS01, KPFG04, BK18a, AS08, ACM93, AG00, AF94, BW93, BQ19, BH11, Ber10, Bro05, BF93, CF96, CK05, CG07b, CP93, CP95b, CDD13, CM05, CV92, DF93, DF93, DdAF+20, DC17, Dri93, ELL93, FM16, GGN14, GZ18, GLRSG08, G197, Ho05, IL05, KBCG13, LW20, Mic93, Nar05b, NZ19, Rip93, Ros97, Sch14, Sch08, Wat06, WD96]. data-bounded [Ber10]. Daubechies [Dur93]. Davidson [HPS97, SS99, VdR13]. DB2 [ADN17]. DC [GWW15]. DCA [GWW15]. DCT [BP19, Lhs07]. DDEs [CE17]. Dealing [Bag00]. Deblurring [NPP04, CPZ14, DHMS16a, FAMA20, LP08, LP12, WCH15]. decay [GL19]. decomposing [LV15]. Decomposition [Bog02, Dah93, HPS20, KZ03, APST21, AA15, BDHF+09, BKF11, CZ94, CZ95, CCJ99, Cic20, CK06, ETY98, FLV14, GHM16, HG93, HN16, HJ21, IL05, JNS19, KLSS14, KST06, KH11, Lor19, MS92, Ria16, SB21, Sut09, VZ93, VH92]. decomposition-type [CK06]. Decompositions [Amo02, AD00, BMA16, FH97, FHH99, LKKM15, PQ95]. Deconvolution [Han02, CPN14, DMT13]. Decoupled [ZZH15, XCY21]. decoupling [SL16, SSYL20]. DECUHR [EG94]. Defect [AHKW04, AKT15, FLR01, AHKW05, EH97a, EM10, GO06, HK06, Si12]. Defect-based [AKT15]. defect-correction [GO06, Si12]. Deficient [CW14, WSY04, HG93]. defined [AC94b, Mar96, Van19]. defining [BD18, LZ16b]. Definite [ABQ04, Str02, AA16b, AL97, BMA16, CR96b, CLMM05, CS08, fTZY16, Hag13, Har18, HM18a, HV12, KPS14, LG17, LDC10, Orb15, PG15, Str97, Sun94a, Sza92, Tan17, VGV06, XM16, YLD11, Zha15]. deflated [BF14, EHTSM21, LM99, ZTW19]. deflating [Oar94]. deflation [SS99]. deflection [YXL18]. deformation [LM14]. Degenerate [Hvd93, PN93, SKJ+18]. Degree [CG03, FS20, FJ96, GLW16, HHLS21, HvD93, KLZV95, LL14, Poc14, Wal06].
degrees [BR17]. Delaunay [AT12]. Delay [Car01, HCH18, SER02, ZFX14, ZXLF15, ABB15a, ABB15b, AE09, AA09, BB14a, Da19, EH97a, EA12, ES19, GMY18, HKE97, KGH14, KGK17, LT20, MMLM20, ROB17, RS20, SAC18, SCDM20, XyJl16, ZY12, ZE10]. Delay-dependent [HCH18, ZFX14, ZXLF15]. delay-differential [ZY21]. delayed [HDP18, RK11, YX11]. Delays [LER03, BCT15, HCH18]. deletion [BG91a]. Demand [Cha04]. demicontactive [HS20, FKC19]. demonstrations [MdR13]. dengue [LWLT19]. Denoising [BP03, HR14, ZY13a]. denominator [KLZV95]. denominators [CJTW96, Gug96]. Dense [BG93b, ABG97, CDW95, Dumm13, DHMS16b, Gar19, HL17, SAE19, ST18]. density [LD20, Lw05, She00, SS11b]. dependence [Bag00, Pop21]. dependency [CCLi16]. dependent [ATM19, BS17, EG18, FYYW19, Ghe18, HCH18, HY21, HS12, KGH14, Lam09, LSZW19, Lo19, MZ19, MDL15, NM14, NPS09, Rip93, SSYL20, Si12, TBY13, YJ18, ZSF18, ZFX14, ZXLF15, ZWG18]. depending [DPP19, SR16]. depletion [NAR05a]. derandomization [Gor18]. Derivation [ALZ21, TO17, ST21]. Derivative [CHS19, CMRS01, FT14, AAB13, AMH08, AM06, BRW11, BH05, CG07b, CT10, CQLY15, CC18, CKB16, FLYM14, JX12, Jat15, KKB16, KS14, LZ21, LPG11, LF19, MKS18, MHA16, NKB17, OI14, PS16, RAH11b, SA14, SGJ15, SWG20, TOW14, TO17, WZQT15, WZ16, WK16, WB17, YZB21, Zha20, ZLLC11]. Derivative-free [CHS19, AAB13, AH08, KKB16, KS14, LZ21, LF19, PS16, WZQT15, WZ16, WB17, YZB21, Zha20, ZLLC11]. Derivatives [PW04, AR20, AMA21, AH11c, Ash16, Ash19, AP21, Die08, Gaj05, GKL21, GPHHAPo18, Joh15, Kim21, SKTGR19, VDJB12, VLCL16]. Descartes [BHS16]. Descent [Bre02, WSH20, AK19, And06, BGRS09, BGRS12, Bno21, BE20, BN18, CL10b, DMZ20, HSK20, LWQR15, LTP18, Maj13, PRK+18, SW11, SS21b, SM10, You16, ZW12b]. descent-based [BN18]. described [MSS11]. descriptor [BHS14, BH17]. Design [BCM19, BF00, BM14, Cout15a, Enr02, GLS18, CDW95, GHN10, L097, Maz18, PR93, RW06, Son93, ZL121, Cout15b]. DESIRE [BD98]. destruction [MO10]. Detailed [DFF04, LRY18]. Detecting [CG07b, CM05, Pan20, Sza03, Mit11]. Detection [GI97, Riz18, Ros97]. DeTemple’s [Che16a]. deteriorated [HWXC17, LZ18b, SCW17]. determinant [AC94b, JL16]. determinants [GM92b, Jia20a, KV00, Wim00]. Determination [AJ13, Car01, Cox93, LM11]. determined [Kub15]. Determining [KL04, Ber00, van93]. Deterministic [PWCsL18, PW16, Str05, Stu97]. developable [HSSB13]. developed [CN16]. developments [BRZ19, Ise96, Nar95]. Diagnosis [SL15b, SL15a]. Diagonal [DM21, FG03a, LEX12, And19b, BCW13, JX13, LZ19b, MVV05a, MA95]. Diagonal-Plus-Semiseparable [FG03a, MVV05a]. Diagonalization [Fue07, ZHY+20]. diagonalize [Bel08]. diagonally
diamond [MMW20]. Dichotomy [LS03a].


dierencing [BKF20]. different [BF93, DJM08, HMS96, KCHD16].

dierentiability [AH09, Pie96].

dierential-geometric [IDAV09].

dierential-algebraic [Pog98, AM98a, AM98b, Che16b, EL01, IY15, LT20, MS06].

dierential-geometric [IDAV09].

dierential-geometric [IDAV09].

dierential-geometric [IDAV09].
AD17, BZV16, DWZ14, DAM16, HDP18, HTVY13, HYJ20, Sal17, YZL20].
diffusive [YJ18]. diffusivity [RT19]. Digamma [Wen03]. Digital
[Sal17, YZL20]. dilated [Erb15]. Dimension [Max11a, GO06, HKPW19, KMS05, San07, SB21].
Dimensional [AEG02, BD02, Boy05, HR03b, AD17, ASS13, AAD14, BX17, Brh16, BK13, Bra06, Bra07, CMD19, CLTA10, CLA11, CY19, CvPS15, CCW21, CDD10, CJ20, Cui13, DSI11, DS09b, DDRT97, hGzS17, GK20, HCL21, He16, HST15, HS15, HL20, JKK97, KKP16, KPA20, Li95, LRL19, LKBF17, LZW20, Lie00, Lin05, LSW16, LD20, MP00, Mar92, MDH16, Nat07, NV21, PSTB01, PV98, Pis16, QXGZ20, RhG15, SH12, SW07, TD09, YD09, YJX15, ZR17, ZLW13, ZHF21]. Dimensions [GGV02, AK12, Cal20, GH06, GH09a, Gha18, Hem96, KSW07, Moo07, Ros97, WZ19, WLMA21]. Diminution [CG03].
DIMSIM [BCJ99]. DIMSIMs [IJ19, Wri01, BCJ97]. Dirac [AT17, SS11b].
Direct [De02, FG03a, GRT97, Ari98, AVI97, BCT15, BW15, CB16, CFL19, CDLW21, Ci20, DG17, DB06, GK20, JRB17, KP96b, Liu11, MS20a, Mhl11, MV17, CIP10, MS14b]. Directed [vGK04, GWL20]. Direction [MST03, BF17, Bno21, CFR06, Cui13, Haj16a, JHLL15, Kim21, LWZ18, LRL19, Ma20, RWTM21, WLMA21, Zha15, ZZ18]. Directional [NS01, CFR06, LaI92, MS01a]. directions [Ben99b]. directly [BDV18, LZ16b]. Dirichlet
[Bia12, BFKM20, JP14, Kmi05, NPR08, OM18, SJW21]. DIRK [FG03b, HR00, NB16]. disc [BW15].
discontinuities [ART19, AF94, AT17, GL97]. discontinuity [CG07b]. Discontinuous
[CMR03, CG20, EKM03, Moo20, AMM16, Bac18, Bae20, Bac21, Che19, DWZ14, DGG05, DL09, GD15a, MS20a, Mal21, MM09b, MM11, MAFN16, TBY13, Wei17, Wei18, Wri95, YZ21, ZZ18]. discrepancy [Dam08]. Discrete
[ACM04, CR02, DV01, Kva01, Kva14, LSX10, MN01, Vig04, ZLG+13, Ave20, BN18, CMRS00b, CMM15, CW14, CZ20, Cour15a, Cour15b, DWZ14, DC17, DNR17, Fan19, Fue07, FYI+12, GGN18, GM06, GLS+18, Han94, JRS09, Jia20b, JZ16, KR20, Li96, LMUZ19, ILLVZ17, hLxX12, LWZ21, MRS06, MRS10, NRS12, OR17, Pan18, PZ20, RR13, RSZ20, Roh07, Tas93, TYSY20, The12, Wei17, YH97, ZXRL11, ZLW21]. Discrete-time [ZLG+13, GLS+18].
Discretization
[ABMV03, BBHM03, And14a, CB16, Che99, CX20, Don13, GLLJ12, HJB18, KNBGV18, KS97, LW17, Moh10, PNW17, TY21, TCW14, ZHT15].
discretizations [Che16b, LYL15, MO05a, NMM18, SW10b, Spr01].
discretized [Asc97, BRY14, DSS14, HM8c, ZW20]. Disguised [JKM18].
disk [ACH14, CG14, CMP21, CYIB12, Gla01, SX96]. disks [PP06].
Dispersion [MR12, FGR01, HLTA16, HFZ19, JBB17, MA13].
displacement [AR10, HFDZ19, ZYGQ17, Zha19]. dissipation [MV13, Met19].
Dissipative [SFT03, AMCM06, KLB10]. Distance
[DL04, SC03b, BF20, HZ93, HZ95]. Distributed
[BD03, BD04a, LER03, TFPG19, AD17, hGzS17, GWL20, HDP18, HLTA16, LRL19, ILLVZ17, sD00, sDB05]. distributed-order
Divergence-dependent [HY21].

Divergence [Mi19, Osvo1, YH97].

Divergence-Free [Osw01, YH97].

Divide [MVV05a, KKM20].

Divide-and-conquer [KKM20].

Divided [Sab03, Arg09, EGSHV15, Müh99, SR06, Wal94, dC20].

Divisor [PR03, FGM19].

Divisors [Gau13c].

DMLPG [MS14b].

Does [CL96a].

Domain [BD04a, Bog02, Kun01, Lor19, ZKD02, ZKD04, AR99, BQ19, BF18, CZ94, Cz95, CCJ99, Cro92, ETY98, FHC21, GM16, HLS10, IL05, KH11, NPR08, RT19, Ria16, SB21, YSLH19, YL16, ZQL+19].

Domain/multiresolution [YL16].

Domains [BD03, CP01a, HR03b, AN17, ALZ20, AG17, AAD14, DM98a, GL15, Kar09, Kar13, Kar15, KJC18, Lee94, LSX10, LJC11, LC21, MD15, QL12, YL16, Ysc99, YWZ19, ZYLN18].

Dominance [LXP20].

Dominant [ABQ04, LL16, MVV05b, VBG96].

dominated [ETY98, MS20a].

Double [DMZ20, AGS08, AKB15, DS20, MBJ17, PRVI20, YJ18].

double-diffusive [YJ18].

double-projection-based [AKB15].

double-step [DS20, MBJ17].

doubling [CZLS18, Guo16].

doubly [DM98a, HHHN07].

doubly-adaptive [HHHN07].

Douglas [AG19, BCN+16, BCS18].

downdating [LLZ18].

DPMHSS [WGZ18a].

DQ [Gha18, Tom11].

DQAINF [EO94].

drift [HY21, Mal21, Nac99].

driven [MKBY19].

DSS [XLW20].

DTZD [QZG+19].

Dual [NO96, SC03b, Alt21, BC16, CWZ13, CL19, CW21b, DGL06, Gás99, GWL20, Khe12a, MBG19, RWTM21, SMZMA18, WZ11, WXQ20].

dual-orthogonal [NO96].

dual-phase-lag [WXQ20].

Duality [BF99b, BR17, BV95].

Duffing [CZLS18, YX11].

Durbin [CHHL18].

during [Bag00, WXQ20].

Durrmeyer [MP14].

DWTPer [FC01].

DWTPer-based [FC01].

dyadic [Mer94].

Dym [BAV18].

Dynamic [Cha04, LPV03, PP18, BRZ18, HFW+21].

Dynamical [Man10, IK20, LWLT19, RM13, THF21].

dynamics [AABM17, AM16, BCST14, BCM16, BCM18, CZ20, CB00, Ila20, JZ16, KGMH21, LSSS15, OKP21, PPR15, Rei98, SSS+19a, SSH20, ZXR11, ZLQT19, ZHY+20, ZLL+21].

E-algorithm [Mat91].

early [BRZ19, Osa12, TM14].

Easy [BvLP16].

Economics [CGGF03].

ECT [Müh99, MT06, TM05].

ECT-B-splines [MT06].

ECT-systems [Müh99].

diff [Tsu02].

Edge [DMR20, LXZZ21].

effect [JCIF15, NAR05a, ZJ08].

Effective [BFRGM03, MT98, BKFMA11, BD98, BC99, BC01a, BI14, Cam19, GJV17, Haj16b, IP16, RW06, YZ17].

effectiveness [BMR19b].

Efforts [NZF11, SC03a, CR14].

efficiency [BCST14, Che14, EGSH13, HR07, Jai16, Jai17].

Efficient [AMM18, AH18, AKW02, BDL+12, BBQ007, BHS11, BKS13, BKF20, BCI14, CX20, CHMT10a, DB06, EGG08, FKMS01, GST17, HH05, HV15, HYJ20, KKB16, Kar09, Kar10, Kar13, LM19, LL20c, MCG+04, MP13, NW04, PW14,
RhG15, TRRD02, WZ15a, XCY21, ALQ17, AA12a, AHL20, BG11, BMV09, CJ20, CLBT15, DM98a, Dzu13, Gha18, Kac18, KP96b, KNBGV18, KMA13, KHM20, LDN16, LWZ18, LlHfDo07, LL18, MGL20, MD21, MDH16, NBK17, PKR20, PS16, Plo93, SGS13, SLD20, Sol15, VZ93, Vep08, Yan18, ZE10.

Efficiently [WH04, WWM21], Eftekhar [Eft15a], Ehrenfests [BGL07].
eigendecomposition [MVV05a]. Eigenfunctions [INR01]. Eigenmodes [LL05]. eigenpairs [BM19, GLL19]. eigenparameter [Ghe18].
eigenproblem [BOP98, LL93]. eigenproblems [IS17]. eigenspaces [KP96a]. Eigenvalue [FG03a, TC05, Van07, AMM11, ALZ20, BLW09, Bos21, Cve06, DBGB11, EGG08, EP97, FM19, FY1+12, IDS16, IS17, IJSS16, JKM18, JRRS08, KWo0, KSW09, LLZ94, LY18, LDC10, LG95, MIA19, OdZdRV13, PL99, Pan20, RSCH+19, San19, She15, XHZ07, wYN18, YSXY19, ZS08].

Eigenvalues [IMT02, AAAA+18, ANI15, ANI+17, AM21, And18b, AA12b, AT19, AT17, CHY19, CD96, DPP19, EG19, EDAM13, EAGS20, FDV13, HM18c, KP96a, LGW18, MT15, TBY13, YHZ20]. eigenvectors [CD96, Gar20]. eighth [LSSS15, Sho18]. eight-order [Sho18]. eighteenth [Ste20]. eighth [AR13, BCMT18, CN16, CN17, CJKT16, FR18, Jai16, Jai17, JK20, LRM16, SS10]. eighth-order.

Elastic [BE03, MD21, MR12, RW06, Sim98]. Elasticity [TC05, BK18b, DN19, KST06]. elastodynamics [AMM16]. electrical [CHH93]. electro [ACL11]. electrolyte [Met19]. Electromagnetic [ZKD02, ZKD04, AF13, GH06, GH09a]. electromagnetics [ABG97]. electromagnetism [BR17]. electron [SSH+19a]. Element [BBHM03, CP01a, DG05, PG05, Tsu02, ACF99, BFK+09, BX19, CLWH20, CVX16, CDS20, DMC20, DN19, DZ19, Far20, FZL+16, FHC21, GX19, GA20, GLRS08, GRT97, HF19, Il20, JKRN13, JCL16, KKL10, KBP17, LHW17, LR18, LLX20, LXXZ21, LTFL10, LS15b, LCH20, LYL15, LDL+19, LKKM15, MS20a, MC05a, MR12, NMM18, OMW21, OBAHK+19, PR10, Rah11a, SLW13, Sco9, SW10b, She15, Si12, SLT20, SS94, Sant17, Val15, WSY12, YJ18, YH97, ZZH15, ZYGQ17, ZSF18, Zha19, ZZ20, ZHF21, ZD21, ZLTA16]. element-free [Il20]. Elementary [Mai01, Rab92b, FLMR00, Fue07].

Elementary-Algebraic [Mai01]. Elements [Ko04b, Mat01, Osw01, AMM16, BR17, CM99, Dri93, Rip93]. elevation [FJ96, Maz11a]. elimination [MGL20]. Elliptic [ABMV03, BD02, NW04, SK04, ACE99, ACH17, ACH19, AVI97, AK09, BFK11, BK08, Car95, CZ94, CZ95, CFL19, CLWH20, DRAE09, Gha18, Van12, HP18a, Huc92, JK19, Kar10, Kar13, Kar15, KJC18, Kun05, LY15, LW17, MM00, MfL20, MS20b, Moo20, MWYY13, OMW21, She15, ST99, XH20, YWWR12, YL16, YZ11, ZW14, ZZZ19, ZWX19, MR91]. elliptical [AL20]. EM-like [Wan15a]. embedded [BDJ11, CD07, RSKB17].

Embedding [BD03, BD04a]. emission [BG11, RVF07]. employing
Enclosing [Pop18b, Wat06]. Enclosure [BL04, Eft15a, Eft15b]. end [HV98]. endpoint [Pop21]. energetic [ADG10]. Energy [CPY19, LM04, LG19, ZLQT19, Dam08, EAGS20, LZW20, LL20c, LS20, Liu21, Rei98, Rip03, YZZL17]. energy-conserving [LZW20]. Energy-preserving [LG19, ZLQT19, YZZL17]. energy-stable [LS20]. Engineering [CCK04]. enhanced [BC01a, GS19c, JRS09]. Enhancement [LHZ20b]. ENO [ABT07, ADN17, Ber10, HMS96]. entire [CD00]. entries [CT06]. entropic [Hu96]. envelope [Luc06]. Environment [LS03a, MJF09, NPS09]. enzymatic [SMK14]. epidemic [LWLT19]. Epsilon [Rob02, CHH+20, JS15]. epsilon-type [JS15]. Equal [Mar04b]. equalities [GZ18]. equality [CCL18, Che94, CRN19, zDYG18, JR20, THF21, Wan17]. Equation [BK04, Boy05, Cro03, DOS03b, Gra03, HL03, KV04, Liu02, MN01, MS01b, AGS08, AD17, AAH20, AM01, AZ19a, ASS13, And14a, AMM16, Ant18, ACH19, BQ19, BC14, BEHS20, BX17, BH92a, BZV16, BW15, BM09, BS19, Bout06, Bra06, Bra07, BX19, CMD19, CXL16, CLTA10, CLA11, CLT+13, CC16b, Che16b, CCJC18, CY19, CMWP20, Cui13, DWZ14, D21, DMA09, DS09b, DAM16, DMD16, DZ13, D11, DGST15, EH97a, FYYW19, FZL+16, FHC21, FRS21, FS16, FYI+12, GX19, GK20, Guo16, He16, HP18b, Hei07, HA16, iHyPZ06, HLT16, HTVY13, HM18a, HCXL20, Ila20, JBJ17, KKP16, KS18a, KCHD16, KR11, KV07, KB20, Lam09, Lec94, LSZW19, LRL19, LH20a, LlhV107, LTF10, LDL+19, LL20c, LD20, LP20, LLC20, LL20b, LS20, LHW13, MB09, MD21, MKA14, MV14, MM09b, Mic91, MRU91]. equation [MC1XzJe16, MDL15, MK17, MA13, Mok16, MMLM20, MM11, MA12, NPr08, OKP21, Oua99, PED15, hPwL09, Pen13, PV00, Pop18b, RM11, RT19, RHG15, RK11, Sal17, San14, SB21, SKP20, SLA11, SKTGR19, SYLT14, SJW21, Str05, SzS21, Val14, Val15, VdR13, WH15, WLM21, Wei18, XyJ16, XM16, XZ13, YZZL17, YSLH19, YZZL20, YPL21, YDL11, YX15, ZWFY19, ZW12, ZW12a, ZJ14, ZW14, ZHT15, ZP17, ZJW18, ZZ19, ZYX19, ZZ19, ZZ20, ZZ34, ZZ712, ZZ720, ZZ16a, ZLTA16, ZS19]. equation-dependent [FYYW19]. equation-error [KV07]. Equations [AAAS03, AG03, AKK00, AGW03, Boy05, But02a, BH02, CM01, CC03, Che02, CGL01, DL03, DM03, ED05, EJR02, GF02, GSA03, HEO04, JBi03, KM04, KB02, LJW17, LER03, MO04, NW04, PL04, PG05, Rec01, RS02, SS03, SGM02, SER02, TRRD02, vLV02, AS11, AK19, AB06, ATC16, AAB13, ABB15a, ABBM08, ASS11, AKB15, AE09, AA09, AM98a, AR99, AS11, AC11, Ano17, ALZ21, Arg10, AH11c, AGS20, Amn97, AH18, AAD14, AHC13, ACH17, AKKT16, AKQ17, Awa10, BDN17, Bai97a, Bai97b, BRY14, Bar91, BBQ07, BJ98, BNN16, BDV18, BJNK20, Bel94, BB14a, BQ099, BEQOR14, BHS14, BH17, BW13, BT14, BD17b, Bhr16, BK13, BK18b, Bic11, BV99, BSF17, BS92, Breh99b, Bru93, BB14b, But02, CQ16, CGPM00, CC110, CA07, CIP10]. equations [CS99, CHH+20, CP00b, CL05, CL06, Che14, CQLY15, CX20, CL21, CH11, CC13, Che19, CCD10, CN17, CNR15, CHMT10a, CLBT15, CPS12, DJ10, DFJP10, VV07a, VV07b, Dah93,
Mas95, Meu97, Meu99, Meu05, MT13, MT14, MT19, MN11, MAK20, Nar05b, NK16, Not12, PZL15, QZG+19, Roh07, RG10, Rum14, SKP20. Error [She15, SLT20, SH17, TTV21, Van19, WW19, YJ21, ZA20, ZLL17, ZLH21, ZLTA16, dC20, DLL12a]. Error-free [OOOR12]. Errors [Dab04, Mat01, BD09, KL17, LDN16, MW16, Tam10, WK20]. ESIRK [BC01b, Che02]. Estimate [SS03, AD17, ALZ20, BEM99, Che19, JL12, LZIL20, MN11, SLT20]. Estimated [EDAM13]. Estimates [AR20, GS94, HL02, Meu05, Meu09a, WDY04, AR16, AAA17, AKPWO5, BM94, BRS08, BRS09, Bro05, CMRS00a, CY19, DL09, Haj16b, JL15, KBP17, LCH20, LZ18c, Nar05b, RRS09, SKP20, She15, Tac12, YJ21, ZA20, ZLH21]. Estimating [AH13, BG91b, Dea15, SSh19b, BQ19, VDVJB12]. Estimation [BJ02, DVJBNO3, GD15b, MK98, Tir02, ASHF21, BQ19, DWX17, Dra00, FGP91, HHL21, HCX20, JV08, KP96a, LWLT19, LRM16, Mel10, Mic93, MAK20, Roh07]. estimations [NC94]. Estimator [KW04]. Estimators [ABMV03, MV02, ASGJ+20, AKT15, LGP11]. etc [dC20]. Euclidean [Dam08]. Euler [ABB15b, ABB15a, Che16a, GMY18, Kar00, LM17b, Maj14, Mill99, Sab92b, Sab14, Sin07, SMA99,YW17, YJ21, ZW21, ZG09]. European [KMV17, ZLT+17]. Evaluate [CCG01, BBZ95, CP95a, CD96]. Evaluating [ACH14, CC12, FLMR00]. Evaluation [CR03b, GA08, LZRJ92, Pas06, RS97, BV93, BF99a, CW21b, FHH05, FKP06, Gao08a, GS95, HNSH09, HPS13, Hum95, IP16, JL16, KP09, Kim21, Kob97, Lyn08, PSS10, Pas95, Pow93, SHF15, XX16, ZUI9, de 93]. Evaluations [SMB02, CS08, GP05]. even [Ber11, GN12, KSW09]. even-grade [GN12]. every [KH18]. evolution [AKQ17]. Evolutionary [CC03, LPV03, ST21, LHR20]. Exact [HEOS04, KS18b, Lóc18, AMR15, GL19]. examples [Maz12]. exchange [BS21]. exclusion [DY93, Yak94]. Existence [DD20, IAH20, MO15, BS01, BH09, KM19, Maz05b]. expanded [LYL15, SKP20]. Expansion [FH05, LL05, LMMD05, ME95, VH92, ZFZ19]. Expansions [CD01, LW04, MO05b, MC05e, GL20, HIK17, KV12, LGA+00, LI10, Mii90, Pow93, QW08, Sid20a, Tem97, VPL97, Wal94, WGZ18b, WL00]. expectation [JR20]. expensive [Liu11]. Experimental [MP00, CB13]. Explicit [CJ12, FHL21, IN95, RW06, SW19, SFT03, Ver14, Wri02, Bla15, BHT16, CJSZ14, CT10, CML21, FR18, GM20, IJ19, KCHD16, KLF17, KS20, Kha14, LW14, LDW18, LT20, SW10a, SQG13, ST92, SZ20, TX19, WW14]. explicitly [YJ18]. exploiting [Vos00]. exploration [DMZ20]. Exponential [BL04, CR02, CIF10, DP01, Ixa19, JLP20, MVVA08, Sab03, Zab09, AH17, BKF20, BR07b, CL06, DMR20, FHL21, Gau15, Ixa21, LKF17, NPI8, OB16, PW14, Rad08]. exponentially [VV07a, FR18, NZZ11, VV11]. exponentially-fitted [VV07a, VV11]. exponentiation [CS18]. expressions [Ixa19, Pas99]. Extended [BEJ20, HEO04, LDW18, LWS18, AHJ17, AT21, BD98, CCL18, GA20, GQ09,
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Extension [TO21, AH11a, Eft15a, Eft15b, GL21, Han93, MA15, MFK+15]. Extensions [Amo02, Osa92a, Bou17].
extragradient [DHF21, DJG18, HMA16, LD18, LQ20, PT17, TH18a, TH19a, TH19b, TTLD20, VS19, YLL20]. extragradient-like [LQ20, PT17]. extragradient-type [VS19]. extragradient-viscosity [TH19b]. extrapolated [LKBF17, ZZ17]. Extrapolation [And19a, Ano92, BCK06, Bre04, CJSZ14, CH11, Coo03, FRR07, Osa92b, Rab92a, ABL…12, BR07a, BC05b, BRZ96, BRZ20, CLTA10, DW97, DSS14, EG19, GPGVS92, JRS09, JS15, Kul10, KR20, LHW13, MN92, RVF07, Saf10, Sal94, Sid94, Sid17, Sid20b, SS08, SS12b, Tai92, Wan19, dC20]. Extrapolation-based [CJSZ14]. Extremal [Thi93]. extreme [CHY19, MT19].
TH19a, TH19b, ZFC18, ZH19]. fixed-amplitude [Lyn08]. Fixed-Point
[GF02, JM18b]. Fixing [BBC21]. flat [YXL18]. Flattened [JYLC21].
Fletcher [BKG15]. flexible [PV00]. flights [JS21]. Floater
[DC16a, AHP20, dC16b]. Floating
[DHL+04, DH04, GWBC20, GLM15, JLM16]. Floating-Point
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BBB+06, BGL07, CL00, CW17, HHST19, HMS96, Hol98, KLB10, KPB17,
Liu21, Met19, MSMS12, MSM12, NF11, Pan18, Son93, ZD21]. flows
[DG17, FHAL15, LC21, Mot14, TCOA19, WSY12, WCB15]. FLR [HHHN07].
fluid [BGL07, CC18, Hol98, KPB17, NZF11, Pan18, WSY12, ZD21]. fluids
[FHAL15]. Flux [Jan03]. fluxes [Che19]. Fokker [LD20]. Following
[MP02, CVLX19]. FOM [EHTSM21, Ess98, RS02]. Föppl [YXL18]. forced
[CFZLS18]. Forchheimer [LR19, LCW20]. forecast [NZ19]. Form
[GL04, Neh04, AAAA+18, Bos21, CDW95, CS08, FLT09, GCH15, GCPG99,
HRY19, Jr20, KCHD16, KP09, Mar96, MK94, MK97, Sch09, TPI14,
WZZ07a, WZZ07b, XZL12, ZW12b]. Formal
[Arn97, BV95, Dra96, Dra02, FT05a, Bec96, CGV92, Dra00, MT98, TBA94].
formally [WZQ17]. forming [KS14, MT15]. Forms
[Che01, Sab03, CD99, Her96, MZ99, Rob92, RSC+19, Ska13, SH17].
formula [Ash19, AP21, BK16a, BCM07, Ber93, Ber07, Ber11, BG13, Cam95,
CM92, CY10, HMS11, LMUZ19, LM15, LSM16, SS14, SH21, SSH19b,
YKY15, ZQL+19, ZLL+21]. Formulae
[KP03, CS12, DPS18, Gau00, Gau09a, Not95, Not08, Not12, SSH20]. Formulas
[IM02, BHS17, BGVHN96a, BC09, Che13, CD07, CBGVN07,
GM92a, GS94, Hai08, Kal00, KS06, Lan07, LLVZ17, MM08b, MM09a, MG91,
MG94, NBJA17, Spa07, Spa20]. formulated [BSF17]. Formulation
[FM04, BH92a, BM20, JM00, MG11b, Ou99, dOS07]. formulations
[CD98, HH21]. Fortran [Lai92]. forward
[BC16, Cho16, SB21, SSP15, SZ20, ZL17]. forward-backward
[Cho16, SB21, SSP15]. forward-backward-forward [BC16]. Four
[FR01, MC05b, MC05c, NS01, AG19, AABM17, Bos21, CRFO6, HMS96,
Lai92, MDL15, Sab91, VM11]. four-direction [CFR06]. Four-Directional
[NS01, Lai92]. four-operator [AG19]. Four-stage [FR01, VV11]. Fourier
[Ave20, AV97, BD03, BBM08, BHS17, CG07b, CCW21, DHMS16a, Hom92,
Hom98a, HIK17, LGA+00, LSX10, Mel10, PPV09, SI13, SW14, WDY04,
Wri95, ZHT15, ZKD04, dFG93]. fourteenth [SS11a]. fourteenth-order
[SS11a]. Fourth [DMA09, FG03b, KMOV, Vui97, AHC05, Bac21, BCM16,
Bia12, BW15, BV09, BGZ20, DD20, DZ13, HZX10, KCBT21, KLF17,
JLyLqW17, ME95, SP21, SG13, She15, WK11, ZCT19, ZP17, ZYX19].
fourth- [KCBT21]. Fourth-Order
[FG03b, DMA09, KMOV, Bac21, BCM16, BGZ20, DD20, DZ13, HZX10,
KLF17, WK11, ZCT19, ZP17, ZYX19]. Fractal [Man07, dCOS21].
Fraction [Van03, LM15, LSM16, Mor11, SKJ+18, WA90]. Fractional
[DF04, DM03, ML20, AS10, CA17, ALB+18, ALZ21, AH18, BD17b, BKF20,
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HZ20, HTVY13, HL17, HYJ20, HL20, JBB17, JZF+20, Kan15, KS18a, KR11, KLF17, KKA17, KB20, LHW17, LR18, LSWZ19, LWLT19, LHZ20a, LHM20, LLX20, LKB17, iLLVZ17, LJW21, LRY18, LDL+19, LD20, LV18, 
LW21, MA13, MG11b, MM11, MAFN16, PNY17, PED15, PS17, QXGZ20, ROB18, ROB17, RhG15, Sal17, SR16, SLA11, SCDM20, Sd20a, SYLT14, Szs21, VCI16, Wan15b, WH15, Wan19, WX20, WLMA21, 
Wei17, Wei18, YZL20, YPL21, YH21, YCW+19, YJZ19, YWZ19, YQM16, ZE12, ZA20, ZWY19, ZWW20, ZLW+13, ZP17]. fractional

fractional-order [FAMA20, ROB18]. Fractions [HLM04, Pas03, Arn97, LB93, Lor95, Now06, Now13, Pas92, Ron92a, WQ10, dBl07b]. fractures [LCW20]. frames [BF93, VW08]. framework [BDD20, GWW15, HPS20, VB92, WCB15]. France [BV96]. Fréchet [AMH10, AMA21, AH08]. Fredholm [AS11, ASS11, Bic11, Bru93, EHV19, HST15, OdZdRV13, PS09, ZA20]. Free [Osw09, AAB13, Ahu09, AH08, AM16, BRZ98, BZ18, CHS19, Cdv98, CCKT16, CO19, FT14, GLLJ12, Il20, Jia20a, KKB16, KS14, LZ21, LF19, NB17, OOR12, PS16, RAH11b, SA14, SGJ15, WZZ07a, WZZ07b, WZQ15, WZ16, WB17, YKY15, YZB21, YH97, ZZY18, Zha20, ZLLC11]. free-form [WZZ07a, WZZ07b]. freedom [BR17, HHLS21]. frequencies [Ave20, Pan96]. frequency [BMR19b, Coul15a, Coul15b, SW19, WW14, YZ17, ZY17]. Friedrichs [ZZ10]. friendly [Ixa19]. Frobenius [CVLX19, HM18b, LEK21]. Front [Lie00, CL96b]. front-oriented [CL96b]. frontier [PLVB11]. Frontini [BD10]. FSAI [BM12, JCF15]. Full [CS99, Liu02, vGK04, AG15, AF13, APST21, Khe12b, Khe12f, Khe20, LYY12, LS07, MR09, Khe17]. full-Newton [AG15, Khe16, KH20, LYY12, LS07, MR09]. full-NT [Khe17]. full-rank [APST21]. full-wave [AF13]. Fully [Pan18, CGPM00, DWZ14, DD20, GM06, KPP96b, LRC19, iLLVZ17, Van19, Wei17]. Function [DHL+04, LM04, Mat04, Sb03, WYD04, WH04, vGK04, AH17, AMH10, AMA21, AZ19a, AzO08, AGN07, BBQ007, BF20, BQ099, BEQ14, BEJ20, Bro05, Che13, Col92, CKF+20, EL08, FW13, GA08, GCFY95, GMY92, HA16, HKPW19, JMS16, JYLC21, Joh15, Joh20, KL94, Khe12a, KH20, KW96, LZRJ92, LGW14, flX12, LYY12, LX17, LD20, LM15, LSM16, Mar96, Mel10, MMU20, MS15, Ost07, Pea13, PH14, Riz18, SS11b, SNMZ20, Sun94b, Van92, VGM96, WZ11, XL14, YP09, ZLL17, ZLL+21, ZLLC11]. Function-Based [vGK04]. function-valued [GMT92]. Functional [LM01, AR99, Bic11, CQ16, LTFL10, SS11b]. functionals [BM96, Hag13, LM12, Sch14]. Functions [ASS03, Azo02, Ano95b, Bre04, But02a, CD01, Dgb04, GG01, GST02, GST03, GKS04, GP01b, GF02, KM04, KOL04b, PW04, Str02, WH04,
ALW98, Ash19, AP21, BBZ95, Be94, BHJTM92, BP93, BC17, BX19, BGVHN92a, BGVHN92b, BGVHN92c, BGVHN92d, BGVHN96b, CM15, CL11, CLMM05, CG07b, CJTW96, CBGVN07, CD00, Dar99, DS09b, DBH21, DPP19, DPS18, DL01, DGST15, EAB20, EG94, EH19, FT05a, FMLR00, FM19, Flo16, Gaj05, GJ09, GA15, GV99, GD15b, GG08, Gau09a, Gau10, Gau11a, Gau14, Gau17b, GK20, GH95, Gla01, GS19b, HGVP92a, HW18, HSK20, HM06, Hua95, IP16, JL15, KSB08, KCHD16, KL14, Kel07, L15, Liu11, jLyLqW17, LM08, Low05, MM00, Mas95, MS14a, MCMX20, MS11, Mil00, Nar05b, POP17, PGGC97, Pet95, Rab05. functions
[Rei98, Rn92a, Saf10, Sas93, SHF15, Seg98, Seg08, She00, Smi06, Spa20, Str97, SR06, Sun94a, UTO07, Vep08, WZ15b, Wil12, Wri95, XLC93, XX16, Yak94, YWS20, ZuI19, ZJOF08, ZS19].

Fundamental
[BHNS16, Kar15, RT19].

Future
[Che99, IM02, CM16, Hua94, LQ16, Sin07, SZ99, WT08]. Generalizations
[CKY99, BL92, CHH+20]. Generalized
YHS18, YSXY19, YWS20, Zha09, ZW12b, ZWG18, ZDSY20. gradient-CQ [KPC20]. gradient-type [ALV20]. Gradients [GF02, CS94, JVH15, MT13, MT14]. gradual [Dax17]. Graf [MW16].


H [Meu09b, Cal20]. Haar [All18, PSS10]. Hadamard [CMM15, ER19, KM13, Mit11]. half [LT20]. half-explicit [LT20]. Halley [AM16, BRW11, CCTV16, CKKT16, SS12a, Ste20, WGG11, WK13, WSK14, WK15, WK16, ZG09]. Halley-type [AM16]. Halpern [ATT21, HWCR19, TAM21]. Halpern-type [TAM21]. HAM [QLZX11, XCLA15]. HAM-based [XCLA15]. Hamilton [Haj16b, SS03, ZZ10]. Hamiltonian [ABI20, BCW13, Ben99a, BCI14, BS14, BMR19b, BIMR19, BB14b, HM18b, Jay21, LG19, LC19, MM99, MZ99, Sei98, WW14, XHZ07]. Hamiltonians [Haj16b]. Hammerstein [GH19b]. Hand [MS01b, BEHS20, BF14, DMD16, Hey01, HE05, KBCG13]. Handling [Md12, BKS13, CZ20]. Hankel [AH03, Bel08, BV95, Cam95, HR03a, LMV00, LV01, LXX15, PSS10, Sas93, Wim00, XX16, Zui19]. Hankel/Toeplitz [BV95, LMV00, LV01]. Hansen [KKB16]. Hardware [ACM04]. Harmonic [Che04, Dar99, DC17, LAN18, LXZX21, Rab92b, Rab92c, RS06, TM20]. Harris [LL05]. Harrison [Pas06]. Harten [AD00]. having [ARTY20, BF93, MZW20]. HDG [ZWX19]. Heat [Cro03, And14a, BQ19, FHC21, GD15b, MS14b, RS06, SB21, SJW21, WXQ20, YSL19, ZJ14]. heat-diffusion [RS06]. heated [CC18]. heating [WXQ20]. Heaviside [AGN07, GGNF17]. Heaviside-type [GGNF17]. Helmholtz [Ant18, AMKG96, BK04, Boy05, CMD19, DL21, GM20, LW21, LL20b, RT19, XZW13, Yal01, YJ21]. hemivariational [MZ19]. Henrici [Bel03]. hereditary [TN10]. Hermite [AH17, AA12b, AT17, AAA17, BC92, BL92, Bia94, BFK+09, CF96, HFS12, GM92b, Gau14, Her96, Iva15, Man17, Mer92, Mer94, MSS18, NB16, Plo93, Poc14, Sab03, SST92, Sun94a, VB91, Wal07, YWZ19, dDL92]. Hermitian [BM19, CM16, EGG08, Ema96, tFZyZ16, HM18b, LN10, PG15, Tan17, WL17,
HSK20, LW16, LTP18, MBG19, MN17, MN11, NJ13, RKMS16, SvF94, THS20, WJW14, ZDSY20. **Hybridization** [PRK+18, BKG15, PRVI20]. **Hydrodynamic** [TE03]. **hydrothermal** [BGRS12]. **hyperbolic** [RK11]. **Hypergeometric** [GKS04, CFK+20, DD99, DL01, NW17, Pas95, POP17, Seg08, Wil12, dDL92]. **hyperplane** [AK15]. **hyperrectangular** [EG94]. **hypersingular** [ADG10, CCJ10]. **hyperspectral** [RWTM21]. **hypersphere** [Gen12]. **hypothesis** [CRV91].

**I.F.S.** [Man07, Man10]. **ICTM** [dADdRC04]. **ideals** [Sau07]. **Identifiability** [DVJBNO3]. **Identification** [LSZW19, Nac03, SMNZ20, GCFF95, NAR05a, PGCCGF11]. **identifying** [XZZ19a, XZZ19b, YSLH19, YZL20, YPL21]. **identities** [CW08, LWAG08]. **identity** [FGJ00, KL94, Szy06]. **II** [AHKW05, CM98, GM92a, GMT92, HJ18b, Lee07b, MC05c, Mil95, Now13, Rob92]. **IIA** [CX20]. **III** [Lee08, MRU91, MG94]. **IIIA** [BCT15]. **IIIM** [ACL11]. **III** [CR02, RST03, AC11, Ant18, BJNKR20, BH11, CMRS00b, DNR15, DNR17, FH00, Han96, Han94, HR14, JRS09, Jia20b, MRS06, MRS10, NRS12, OR17, Pla99, RRS09, RR13, RSZ20, Ria16, SGJ15]. **Ill-Conditioned** [CR02, BJNKR20, Ria16]. **ill-conditioning** [Ant18]. **Ill-Posed** [CR02, AC11, BH11, CMRS00b, DNR15, DNR17, FH00, Han96, Han94, HR14, JRS09, Jia20b, MRS06, MRS10, NRS12, OR17, Pla99, RRS09, RR13, RSZ20, SGJ15]. **ILU** [BRY14]. **Image** [BP03, DHMS16a, NPP04, XTH07, ALRT16, AMR15, BKP93, BC05a, BH11, CC06, CPZ14, CGYZ19, DHJ10, DMT13, EHN17a, EHN17b, FAMA20, FM99, FLG08, HLS10, LP08, LP13, LAG05, Li96, MP07, MMU20, NR14, SMA99, XY14, XW17, ZY13a]. **images** [CTS09, JMS16, LP12, Li95, SST08, WHZ+18, dCOS21]. **imaging** [AH14, HOW95]. **IMEX** [GS19c]. **Immersed** [KV04, Li97, JCL16, RW06]. **immobile** [QXGZ20]. **Impact** [Dum03, Moo07]. **impedance** [GHC15]. **Implementation** [ACM04, CO03, Da 92, DHL+04, DN19, DEM94, El 18, Enr02, Mel14, Nac03, PL04, SS99, AG15, ACF99, AMM18, AEF+14, BW13, BF00, BvLP16, BRZ96, BCI14, BC01b, CWZ13, Cm19, Dum13, HJ18b, MH08, Nie93, Pol10, SLW13, SGJ15, Yan17]. **implementations** [HMS96, HYJ20, OM18, SI13]. **Implications** [ME92]. **Implicit** [Jat15, KJ18, KSW09, Mar04a, AMM17, AMM18, BF17, BD98, BC99, CSI18, CGPM00, CW19a, CSJ14, CLA11, Che14, Che16b, CDLW21, Con93, Cui13, DWZ14, FHH05, HMT17, HZ93, HLTA16, IJ19, KCHD16, KLF17, KLB10, Le 98, LRL19, ME92, MC08, PFT98, SYLT14, SZ99, TB19, VA20, WLMA21, ZV19]. **implicit-explicit** [CSJ14, IJ19, KLF17]. **Implicitly** [Che04, DB98, LM99, FEL15, GSV96, Van19]. **importance** [DMR20]. **improve** [KADE18, Ria16]. **Improved** [AB99, BM97, CGYZ19, Kol04a, MA16, Nac03, RA12, Rum14, SI13, WDL16, AD17, AR09, BCST14, CL21, CKKT16, DW15c, HJ18b, Khe16, KGMH21,
LP12, MSMS12, OdI00, WSK14, WK16, YHS18, ZYW17, ZW12a, ZFG18.

Improvement [Dra00, Gra03, YaI01, AHL20, MBJ17]. Improvements [LPGL16, SCW17]. improves [EHVRV14]. Improving [ART14, EH97b, SW05]. Impulses [DOS03b], impulsively [Mot14]. IMR [CR14]. inaccurate [Mic93]. inclined [MSM12]. including [Wal94].

inclusion [BC16, Cho16, KAF18a, Kol06, Mil18, PM05, PNM11, San19, SDMK18, SC18, TAM21, TG20, TDC21]. inclusions [AG19, RIAA19].

Incomplete [EGSV04, GPGC98, Mat04, WCLW16, ACSD16, CMM17, MP00, SEG14].

Incompressible [PG05, BRY14, BW13, DG17, HeI06, KM17, PV98].

inconsistent [BF17, FHH96]. incorporating [DGM+18]. increasing [Dax17]. Incremental [DL04, SW07, BE03, LXP20, YWWR12]. indefinite [BEGG91, CR96a, CWHL20, FHH96, FH00, KeI07, KPS14, SR16, SGK+99, WL17, ZDI17, ZFG18]. independent [Lor19, SBJC19]. Index [Ano01b, Ano02a, Ano02b, Ano04a, HL03, Ano01a, AM98b, BCST14, Bea98, EL01, Fab16, HR07, ICR06, JV98, LM11, NSM20, Pry98]. index- [Bea98, EL01, ICR06, JV98]. index-1 [Fab16]. Index-2 [HL03]. indicator [ZZL17]. Indicators [BBHM03]. indices [Le 98]. induced [Not95].

induction [AH12]. Industrial [The97]. Inequalities [Che16a, KM04, LR14, Alz08, AV19, ATT21, AH10, Bno21, BHT16, CS16, CS18, CR91, Dax09, DLYH17, Dra00, DMS09, Fan15, FY19, GL07, Gau09c, Gau09b, Gau11b, GZP18, GEA20, HT19, JM18b, Lei15, MZ19, RDI+21, SI17, SI18, SLD20, SK19, TSI20, UA09, WZZ16, WZZ15, YL19, YLL20, ZFC18].

Inequality [AAAS03, CGR12, Anh19, CS17, CZ20, DJG18, Gau08b, Kou07, NPS09, TH18a, TH18b, TH19a, TH19b, TVC20, TTL2L0, VS19, ZLI221, ZWX19].

Inertial [SCD+21, Sha97, TH19a, ALV20, BC16, HS20, Hie19, Rob97, SO20, TVC20, ZFC18]. Inexact [BKM03, Gon16, HSS04, AG19, AAN14, AGS20, AM18, BK08, CC15, DWY16, FGBP21, GO20, GZP18, HNY+18, KM17, Lei15, Lin16, LM13, MsC20, MC08, Shi09, Shi13, WZZ15, YDWL15, ZZZ18].

Inexactly [BN18]. infeasibility [Md12]. Infeasible [IW04, Khe12b, Khe16, Khe17, KHI20, LYY12, LS07, LPXX19, MR09, SD20, YZLP16, Yan17, Yan18].

infeasible-interior-point [SD20, YZLP16]. infiltration [SLA15]. Infinite [BO03, HR03b, JC04, CP95a, CL99, Cro92, Den14b, EO94, Esp05, FLMR99, FM03, HS96, HNS09, KhI11, LPXX19, Sd20a, SS12b, SH21, TO21, WWD+12, XCL15, Zah09]. Infinity [SVZ01, LPGL16]. Influence [GHPMGRR14]. Information [MCG+04, KP16, Prz09, WT08]. Inherent [Wri02, MHA16]. Inheritance [BG03a]. inhomogeneous [DG17, ST21].

Initial [CN01, Mar04a, ADA07, AE09, AM98a, AHKW05, BKA19, BAV18, BVV14, CEX14, EL01, JL12, KS20, KK12, LiI7, LWS18, NBJA17, NJ13, OQ12, PGGCGF11, RKMS16, RSKB17, SL18, SW19, SS15, SSS8, SZ99, Stu97, WZQ17, YSLH19, YZ120, vSv94, vdHM98]. initial-value [RKMS16, RSKB17]. Initialization [HL03, MMW20, Sch09]. initialize [MS11]. injective [Gon16]. injective-overdetermined [Gon16]. inner
inputs [YCW+19]. Instability [Car01]. instant [LMUZ19]. integer [DGST15, GLM15, XyJl16]. integrability [MT98]. Integrable [ZHT15, CHHL18]. Integral [DV01, FHS12, JC04, Med10, MO04, AS11, AAH20, ASS11, ASS13, AAD14, BR14a, Bic11, BD00, BG13, Bram93, CQ16, CC10, CIP10, CS99, CH11, CS08, DD20, DM98b, DS09b, Esp05, EHH19, FRS21, Gau08a, GX19, GH09b, GMT92, Gu20, HNS09, HSTW14, HST15, IDS16, KGH14, KSCS07, KSC08, LLC20, LM21, LWN13, LHW13, Lyn08, Maj14, MKA14, MV17, MMLM20, NP18, NLT21, NAA19, Nor00, OdZdRV13, Pas06, P16, RS06, RT19, SP21, VdR13, WQL20, XL14, YY13, ZA20, ZS19]. integral-algebraic [Pis16]. integral-based [IDS16]. integrals [HR03b, ADG10, CC07, Car95, CP95a, CBGVPP09, CS08, DS15, Gau11a, Gau15, HS96, HS15, KHM20, Mac96, MM00, Maj13, Maj18, Mc10, MZ99, Pas09, Prz09, Sff10, SR16, SS12b, SH21, Zu19, ZH17]. integrand [KHM20]. integrands [CvPS15, CBGVN07]. integrated [NPS09]. integrating [L95]. Integration [Coo03, Dab04, DL03, PW04, Sch02, ADG10, BLS92, BL98, Bou17, CM15, DDS93, Dam08, DKL15, Dze15, EO94, EG94, FHL21, Gau95, Gau12a, Gau13a, GG98, God15, HW00, HS96, HSK12, HS15, HFW+21, Kel07, LS11, Mal21, MKBY19, Mnn07, MFPG07, MO19, MCMX20, Pet95, PW14, Rab92a, ROB18, SP21, SGK+99, Tov97, Tov98]. integrator [Don13, SAE19, Sha19]. integrators [AM98b, BC05b, CO19, HK06, LWS18, MO10, SW19, SSH+19a, WW19]. integro [CA07, CPS12, DSI11, EED19, FH15, HCXL20, KSCS07, MKA14, MG11b, PS09, PS17, RT12, SAC18, ZXF14, ZFX14]. integro-differential [CA07, CPS12, DSI11, EED19, FH15, HCXL20, KSCS07, MKA14, PS09, PS17, RT12, SAC18, ZXF14, ZFX14]. Intelligence [Ano95b]. Interaction [Car01, CG20, GA20]. interconnecting [TFPG19]. Interface [KV04, BNN16, BV99, CFl19, CLWH20, HHST19, JK19, Li97, RW06]. Interior [IW04, AG15, AJMP11, AM18, AM13, BBO21, CWZ13, DGL06, Khe12a, Khe12b, Khe14, Khe15, Khe17, KH20, L1a8a, Lin16, LY12, LS07, MR09, MN11, PH14, RS20, SMZMA18, SD20, SS94, W000, W111, YZLP16, Yan17, Yan18, ZW20]. Interior-Point [IW04, AG15, AJMP11, AM13, CWZ13, DGL06, Khe12a, Khe12b, Khe14, Khe15, Khe17, KH20, L1a8a, Lin16, LY12, LS07, MR09, PH14, SMZMA18, W111, Yan17, Yan18]. Interlacing [DJM08, Seg08]. intermediate [CSI17, QLZX11, Sid94]. intermittent [DMZ20]. internal [MN92]. international [BV96, Ano92, Ano95b]. interpolant [ASS13, AGN07, Mon96, RB21, dC16a, dC16b]. Interpolants [NSS03, AHP20, ASS11, AC94b, Ber00, BCGVS11, CF96, CM12, EM10, Gen12, LC14, Mer92, Mer94, TF00, Tsi07, Ver10]. interpolating [BM00, BGVHN92a, CDF99, Cox93, DDS93, Ila20]. Interpolation [All03, Ano02, CG14, CG17, Gen12, HM06, LM01, Mat01, PS06, WD04, Wen92, AL18, ACM93, Bal11, BDIR18, BC92, BF18, BM00, Ber07, Ber11, BV21, BDS00, BLS06, Bra96, Bro05, CDSV11, Car91, Car92, CG05, Car10,
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CKP19, CMMP19, Cor91, CL13b, CDD13, CY10, DF93, EG19, EEM20, FM16, FP20, Gal93, GZ18, GM92b, GM92a, Gás99, Gem97, GH15, GLV05, GP05, HvD93, HM07, Iva15, JKK+08, KK00, KST21a, KST21b, IW20, LAG05, LN95, ILLVZ17, MP08, Man17, MMV17, ME95, Maz18, MT18, MS17, MSS18, MEJS19, MG91, MG94, MS96, Nar05b, NCC11, NL97, PR10, PZL15, Plk93, Plk94, Pre93, PQ95, Rip93, SST92, SX96, Sid07, Spr98, Str97, Sun94a, SWG20, Tan20, Tra93, UL18, VB92, Van07, WQ10, XZL12.

interpolation [ZZL17, Zha95, dB07a, dS00, dDS00, dBD05].

interpolation-extrapolation [EG19].

interpolation-type [llLVZ17].

interpolations [AA12b, Bic11, JCL16].

Interpolatory [BLS92, BSL18, CH95, DL08, FMD18, Not08].

interpretation [BCM10].

Intersection [WZZ07a, WZZ07b, BM06, SKJ+18].

Interval [ASS04, BL04, Cha04, Cse04, DL04, Gla04, Kol04a, KPF04, KL04, Mar04a, MJ18, MJ20, MCG+04, MKO04, NKS04, Pop04, RddRC04, Rev03, VR04, dADdRC04, vGK04, BBZ95, Ben99b, Ber07, CC07, CKP19, CP95a, Eft15a, Eft15b, Gla01, HM07, Joh20, Kub15, MJH17, Pop18b, Pop21, Rum12, SM21, SH21, Val14, Val15].

Intervals [Kol04b, vGK04, Maj13, Miü00].

Intrinsic [ASS04].

introduced [Dur93].

introduction [CFM15, MSCB93].

intrusion [SMN20].

invariant [Dam08, ED13, JJK97, LWG18, LL20c].

invariants [Asc97, BS14].

Inventory [Cha04].

Inverse [FG03a, LN10, MS11, NR12, ABG97, ADN17, BDV18, BI00, CR20, DS09a, EP97, FP18, GWBC20, GH15, GD15b, GK20, GP05, HN94, JN99, Kuh13, Li95, LPGL16, LCVL18, LZ16b, LDC10, LL20b, MGL20, MsC20, Meu09a, MT93, PH20, SHLY18, Soi15, XHZ07, YLY12, ZJZ20].

inverses [APST21, BM94, BD17b, LMU19].

inversion [DDAf+20, DW15c, FM99, GST17, JLM16, WGZ18b].

invertible [LRT19].

investigation [Die08].

Investigations [ZWFY19, HHST19].

involve [Sid20a].

involving [AV19, Ash16, AKT15, HS96, LQ20, MP08, MMV19, Zul19].

IPG [LY18].

IR [GHN19].

IRKS [MH08].

irreducible [wYN18].

Irregular [MM04, Cal20, EAGS20, Lee94, SH12, ZYL18].

Irregularity [Ros97].

Isogeometric [HZ20, Moo20].

isometry [BOW21].

Isotropic [Hen96, HMdAES08, Meu12, MP13, WWD+12].

issue [Aro17].

Issues [But02c, KM09].

Itō [AAH20, ES19, HH11, Prz09, TX19].

Italy [BT14].

iterated [Alt21, CFM15, Don12, GLM15, HRY16, JMS16, KR20, MMU20, Sab92a, SW20, v8v94].

iterates [Bog13].

Iteration [AG19, ABQ04, BCV03, CL11, CPV04, Rev03, Axe99, AFN16, AFN17, BBS20, BBC11, BZ13, Bel94, BEQ13, BPR21, BHT16, BK08, CR96a, CW19a, CW1a, CL13a, Chk20, Cks16, DS20, Don10, DG94, FGJ00, Le 19, GA15, GKL21, GNH10, GL19, HWCR19, KD14, KMZ18, Ke21, Lei15, LY2014, LY17, LZ16a, LZ18b, MM17, Mor17, PDRG19, RWTW19, SPV20, SAE19, SS21, SCS18, SSH19b, SSH20, WT08, WZ13a, WZG18a, WL17, WPL18, XW18, XWY19, ZXP+20, YAT20, Yan18, ZZ17, Zha11, ZYW21, ZY13b, ZM16, ZL17, ZV19, ZV21].

iteration-based [SAE19].

iteration-inexact [BK08].

Iterations
[GF02, AMM18, Bag00, BM06, CVLX19, CL19, Hig97, KL94, NSM20, Pie99, SS98, TM14, ZG09]. Iterative
[AAA+18, Bog02, Buo17, CS16, Cic20, CGL01, DF93, De 02, GP05, Jay02, LP18, Nac99, Nac03, NPP04, RR00, SI18, SIO20, SS16, SC18, YP09, AABM08, Ano17, AG13, AS14, Aw10, ANA14, Bai97a, Bai97b, BHS14, BH17, BE17, Brea0a, BE98, CSI17, CR96b, CGPM00, Cas17, CPP14, CCL18, CKY90, CRN19, CHMT10a, DD20, De 02, GP05, Jay02, LP18, Nac99, Nac03, NPP04, RR00, SI18, SIO20, SS16, SC18, YP09, AABM08, Ano17, AG13, AS14, Aw10, ANA14, Bai97a, Bai97b, BHS14, BH17, BE17, Brea0a, BE98, CSI17, CR96b, CGPM00, Cas17, CPP14, CCL18, CKY90, CRN19, CHMT10a, DD20, De 02, GP05, Jay02, LP18, Nac99, Nac03, NPP04, RR00, SI18, SIO20, SS16, SC18, YP09, AABM08, Ano17, AG13, AS14, Aw10, ANA14, Bai97a, Bai97b, BHS14, BH17, BE17, Brea0a, BE98, CSI17, CR96b, CGPM00, Cas17, CPP14, CCL18, CKY90, CRN19, CHMT10a, DD20, Den14a, Ern00, EGSHVN15, Fan15, FT14, GA08, GH19, GRT97, GEA20, HT16, HT21, Hui08, HJ18b, HVM15, HVT17, HRO7, HSE16, Hom94, Hom98a, jHyP106, HM18b, HM18a, HM19a, HWXC19, HM14, Iva17, Jia20b, KCBT21, KT07, KSB08, KAF18a, KAF18b, LMMH11, LZZ19, LG15, MN17, MM19, NHP06, NR512, NC94, NK16, NK21, PWN17, PS16, RIAA19, RAH11b, RA12, RR98, SK21, SKSS21, SIE16, SGJ15, SDMMK18, Sol15, SZX11]. iterative
[TAM21, TPY14, USAF14, WO00, WZ15a, WZQT15, WDL16, XZZ19b, XCY21, YWWR12, YZL20, ZW14, ZH19]. ITR [CR14]. IVP [SG+99, Cor02, MN92]. IVPs [BC01b, Eba18, KP16, Kac18, Sho18, SKTGR19, CMR03, SFT03].


kinetic [OKP21]. Kirchhoff [KKPT16, SKP20]. KKT [ZL07]. Klein [CG20, DMA09, Don13, LHZ20a, LV18, ZHFW21]. Knowledge [CMRS01]. Knowledge [Bea96]. known [AAAA\textsuperscript{+18}]. Ko [PS17]. Kolmogorov [Hof05]. Kolmogorov [Ila20]. Koornwinder [KW96]. Korobov [DKL15]. Korteweg [YZZL17]. KPP [Bou06]. Krasnoselski [KAf18b]. Kravchuk [ADGP15]. Kronecker [CK20, Con91, FT05b, MMV19, YHZL21]. Kronrod [Bou17, DPM18, LSW01, Not95]. Krylov [Ali17, AFN16, AFTN17, BBS20, BM19, BLW09, BEH20, BPR21, Cas17, EJR20, HE05, IS17, JBC03, Lam09, LC19, MB09, Mia19, MR02, PV98, RR00, Sch17, SWB08, TY96, ZS08]. Krylov-like [Mia19]. Krylov-type [IS17]. Kulisch [AL04]. Kuramoto [MK17]. Kurc [CL96]. Kutta [AMCM06, Conf93, Jat15, LG19, PFT98, SQG13, VH12, AH15, AMM17, B398, BS14, BB14b, BD98, BC99, BJ04, CGPM00, CMR03, CT10, Che14, CQLY15, Che16b, CD14, DJ10, EH97a, FMY14, FYW19, FHL21, JT96, Kha14, KM19, Li17, LT20, ME92, MV02, MO08, MSE18, MHA16, ST21, TX19, Tiz02, TCW14, Tsi07, TO17, VV11, Ver10, Ver14, WG13, Wri02, XT16, vSV94]. Kut-Nyström [CQLY15]. Ky [Wat93].

Lacunary [Mas05]. lag [SS15, SKTGR19, WXQ20]. lagoon [CDF99]. Langrange [CF06, EEM20, GL15, JKK\textsuperscript{+08}, Kon01, LC14, MG91, Pre93, SX96, SLT20]. Lagrangian [BW13, HSS04, SS03, TSY20, WJ96]. Laguere [Cam19, CRV91, DHH12, Gau09a, Gau14, Ghe13, jLyLq17, MM08b, MM09a, Qwm08, Xy16, YZ19]. Lambert [Gau10, Joh20]. laminar [NM14]. Lanczos [BRS92, Bag00, BR06, BEJ20, BEGG91, BRS91, BRZ98, CR99, CR02, CR12, CD98, DB98, FGP91, G196, GV96, GV99, Gm97, Gv96, JNS19, Soo15, Van02, Vos00, Ye06]. Lanczos-Based [CR20]. Lanczos-Type [Van02, BRZ98, CD14]. Landau [HP18b]. landscape [DMZ20]. Landweber [Ehr15, ZYB20, YPL21]. Langmeyer [Har20, Mat15]. Language [MdR13]. Laplace [DW15c, HV15, KH11, Kuh13, LM14, ML10, NPR08, WGZ18b, WQL20, ZW12a, DCM\textsuperscript{+13}, DCMM13]. Laplace-space [Kuh13]. Laplacian [ALZ21, FP14]. Large [EJR02, GSA03, HL03, HSH03, JBC03, LWW13, AAB13, AN17, AKB15, Ano17, AGS20, Ba197b, BLW09, BG19b, CDT10, CR99, CMR00b, CC13, CL96b, CD16, Ema96, GGN14, GHN19, GH09c, Guo16, HJ18a, HPS97, HRY19, JH21, JHVH15, JNS19, KWW00, La17, Lei15, L12, ML, OR17, Pan96, RRS09, RR98, RR00, Rog95, SS99, SW00, St18, VBC96, WCL16, YCL17, XYL18, ZTW19, Zha20, ZW20, ZS08]. Large-Scale [GSA03, LWW13, AAB13, AN17, AKB15, BLW09, CC13, GHN19, Guo16, HJ18a, HRY19, JNS19, La17, LZ12, LL18, Md12, OR17, Pan96, RRS09, RR98, RR00, Rog95, St18, YCL17, Zha20, ZW20]. larger [Ma20]. largest [BG91b, GL07, Gau08b, HM18a, wYN18]. laser [WXQ20]. lattice [BD12]. lattices [CG05, CG07a, JKK\textsuperscript{+07}, JKK\textsuperscript{+08}, L17, X]. Laurent
[BHJTM92, CGV92, GCGVH92, MC05b, MC05c, Pow93, Riz18, VGM96].

Lavrentiev [SGJ15]. laws [AC17, Sar06]. Lax [ZZ10]. Layer
[Boy05, SC03a, ADA07, DL21, FY13, FHAL15, Ghe13, Ghe16, KR11, KK16,
Lin05, Mot14, NZF11, NM14, NMM18, RS20]. layer-adapted [Lin05].
layers [ALZ21, LZ18c, MN11]. LCCO [AG15]. LCP
[CKS16, LYY12, PPR15]. LDG [ZLW+13]. LDL [Orb15]. Lead [MKO04].
leading [MD15]. leap [HMT17]. Learning [CMMP19]. Least
[BCV03, DG05, Ell93, Hei06, LMV00, LV01, MMV19, PG05, SK04, AAH20,
Ari98, AAD14, BR509, CR20, Dax90, DAA19, DWX17, HYW20, Hei07,
HZ95., iHyPZ06, HM18b, HM19a, LDI16, Lei15, LEK21, MMGH17, MRS93,
MZW20, NC94, NK21, OLB94, Pen13, RAH11b, Rum14, SEG14, ST18,
SM21, SXHZ20, TV19, VZ93, XXW17, YCW+19, Yua21, ZLWQ09].
least-change [Ari98]. Least-Squares
[DG05, PG05, SK04, Hei06, CR20, Hei07, ST18]. Lebesgue [CYIB12]. leech
[AB98]. Left [MS01b]. Left-Hand [MS01b]. leg [KS06]. Legendre
[Ahu09, BZV16, BOK4, BK18b, CQ16, EDAM13, ES19, GK20, HIK17, Hun95,
KSC07, Luc97, MG11b, ROB18, SHF15, ZJWF18, ZJZ20].
Legendre-based [ES19]. Leja [Chk20]. Lemaitre [Le 19]. lemma
[BS21, CW08, EN11]. Lemniscates [PM005, Ple03]. length
[BKA19, CKP19, FRR07]. Leopoldi [Kou07]. less [EG19]. Level
[FAMA20, ARSS19, BMV09, GLV05, LAG05, MT12, Rab92c, ST99, Wan18,
ZH15, vdMRS06]. levelling [AE18]. Levenberg [SG17, SG18]. Leverrier
[PS06]. Levin [Hom92, Osa92a]. Levin-type [Hom92]. Levinson [AA16b].
Lévy [JS21]. Liao [AK19, And18b]. library
[CDW95, OBAHK+19, Rz99b, Ton98]. Libration [Lo97]. Lidstone
[CDD13]. Lie [CO03, CO19]. life [Bret06a]. lifting [BCL00, Laz99]. Light
[Lev05]. Like [CPV04, AABM17, Arg10, AG17, BD09, Bar13, CW17, FGC19,
Gon16, GLDO09, Guo13, HZ15, LQ20, LC21, MA16, MIA19, PP06, PT17,
Pol10, SSS14, Sal05, SHLY18, SSH20, Tan17, TS92, Wan15a, XZL12]. Limit
[Thr92, AH13, CZLS18, Lor95]. Limited [Orb15, AB99, Liu14, VL19].
line [AHR21, AAN14, AK15, BKR18, CBGVP09, DW12, Deh20, DMR20,
G21, GZ11, HWHC5, KJ15, LZ18a, LLL18, LM13, LC21, MP00, SW11,
SM10, TH19a, WZ16]. line-search [TH19a]. Linear
[AZMJ04, AAAS03, ABQ04, BBD03, BCN+16, Bret02, BZ02, BJ04, DDP14,
De 02, DL03, GL04, GM03, IW04, INR01, Kolo4b, LJIW17, Pop04,
Pr09, RST03, SGM02, SK04, Wat92, Wat94, Wri02, dSCS04, AEH20, AH11a,
AR12, AR0, ABS19, ABC97, AL97, AR18, ASGJ+20, ASHF21, AR10,
AC19, AM13, AKT15, ANA14, BMA16, Bag00, BD06, BBC11, BCW13,
BZ13, BC94, Bar91, BBO21, BOW21, BVV14, BC06, Ben99b, BBP17, Bla15,
BM96, BRS98, BS08, BV09, BH09, CR96a, CR96b, CMRS00b, CJSZ14,
CF96, CL00, CMR16, CS94, Cdv98, CC16a, CL05, CLWV15, CZ20, CK20,
CLW20, CDW95, CCD10, CPS12, CHK14, DEP12, DL08, DLL12b,
DLL12a, DLL13, Dax09, DS20, DMD16, DZ13, Don10, DP16, Dun13,
linear [FGC19, FP18, FGL19, FM93, FHH96, FT05b, GWL18, GEP14, GEP16, GEP19, GP99, Gau13c, Van12, GHP+00, GM97, HT16, HYW20, He16, HDP18, HR05, HSTW14, Hey01, HE05, HSE16, Hii10, HKPW19, HCH18, HLZ14, JRB17, Jbi93, JRS09, JJ13, Jia20b, KBCG13, KST06, KMZ18, Ke21, Khe14, Khe16, KKO17, KS18b, Lei15, LLS11, LYW14, LZ14, LL16, LDL17, LM19, LC19, LL20a, LYH+20, LZ16a, LZ19a, LZ19b, LTFL10, LS07, LHL11, Lόc18, LM12, Luc97, LWZ21, MKBY19, MW98, MS06, MG20, Mic93, Moh10, MK17, MMLM20, MR06, MR10, Mor17, MHA16, MM11, NRS12, Nie93, OI14, OR17, OOO11, PH14, PLH20, Pla99, Pop21, PG15, RWTW19, Run14, Sad99, Sch14, SL16, ST18, SCTP00, Sha97, SM21, ST21, TY96, Tur94, WO00, WCB15].

linear [WQL20, WB17, WL17, WPL18, WK20, WX18, XXY19, XZP+20, YWX14, YZLP16, Yan17, Yan18, YHZL21, YIX15, ZR17, ZM94, ZZ17, Zha11, Zha15, ZD17, ZZY18, ZFG18, ZZ19, ZYW21, ZFX14, ZY13b, ZM16, ZLV17, ZV21].

linear-quadratic [Bla15].

linear-time [Luc97].

linearisation [Mot14].

Linearization [Kol04a].

Linearized [BPR21, BRY14, HP18b, LV18, LV21, WH15, YJ21, ZHFW21, ZD18].

linearly [APPR14, ABM10, DEM94, MBG19].

Lines [CG03, ACF99, ACM93, CM05, DS09a, Sut17].

Linesearch [Anh19].

Liouville [AS10, AA12b, BX19, GHC15, Mar93, TBY13, VLCL16].

Lipschitz [AV19, AH11b, Db04, GA15, HLC15, RDT+21, TS20].

Lipschitz-type [AH11b].

Lipschitzian [DHF21].

liquidity [KMV17].

Liquids [PP05].

List [All08b, Auo99e, Auo03b, Auo04d].

Lobatto [BCT15, Gau00, Gau09a, Laut, MVVA08].

LOBPCG [KPS14].

Local [AABN17, ASHF21, Ari98, CG20, GS16b, Han93, KV04, Ku10, MM17, MS14b, SW10b, AC17, AR09, AM16, AKT15, Ba18, Ba20, Ba21, Bu00, Che19, DW14, KS06, KB20, Len93, MV14, MT12, MFPG07, Mot14, RC14, RA12, Wei17, Wei18, ZW12a, ZG09].

local-global [KS06].

localization [Cvo06, MT93].

Locally [Rab05, BL95, LKBF17, LYY12].

locally-kernel [LYY12].

Locating [KPFG04, DFK97].

location [CKL16, HHLS21, Xue95].

locations [CG07b].

Log [ZLT+17, DLK15].

log-cosine [DLK15].

log-Korobov [DLK15].

logarithm [AM12].

logarithmic [Gau10, Gau12a, Gau13a, Gq09, KSCS08, Os07, Sb91].

Long [CKP97, MKBY19, Hold98, LS11].

Long-term [MKBY19].

Look [RSCH+19, BRZ96, GM97, Mi93, Sa04].

Look-ahead [RSCH+19, BRZ96].

look-around [GM07].

Lopsided [LYW14].

Lord [MC05c].

Lorenz [GPA14, WLL12].

Lotfi [CN16].

Love [FRS21].

Low [BHS14, BG13, CMM17, FH97, GSA03, KKM20, BKS13, BEHS20, EGG08, HV15, Jay21, LHZ+21, MVVA08, Zfu15].

low-error [HV15].

Low-Rank [GSA03, BHS14, BG13, CMM17, FH97, KKM20, BKS13, LHZ+21, Zhu15].

lower [ARS19, Ber00, HL17, LM17a, Ver14, YKY15].

LOWLAD [BL95].

LP [TO21].

LQ [DT09].

LQP [Bno21].

LSMR [Jia20].

LSQR [BRR13, RS20].

LU [SZ99, Deh20].

Lubich [MS11].

Lubkin [BBM08].

Luigi [All08a, All08b, GG08].

Luminy [BV96].

lumped [QLZX11].
Lyapunov [DL97, BQO99, BHS14, BH17, FWC16, GSA03, HJ18a, LWwCL13].
Lyapunov-type [DL97]. Lyapunov/Stein [FWC16]. lying [PS20].

M [VB92]. M-Padé [VB92]. Machine [RDdRC04]. Maehly [MC05b].
magentic [MT93]. Mahony [ZJZ20]. Maintaining [Sv95]. major [Wat94].
majorant [EHV19, Gon16]. majorizing [AH13, AG13]. Mandelbrot
[GVJ17]. Manifold [CO03, LZ12, ODL21]. manifolds
[JJ97, Rob97, Sha97]. Mann [KA18b, MM17]. many [JYL21, Szy06].
MAOR [CHK14]. map [BR07a, JHV15, LK20]. Mapped [Mat01].
mapping [BDV18, LZ16b, MWsC19, VA20]. mappings
[Bag16, BI00, CSI16, CSI17, CRN19, DM09a, Den14a, Fun15, GMZ19,
GEA20, HS20, HMA16, IAH20, KAF18a, LQ20, LCL21, MN17, PCK18,
PDRG19, RZ16, RTD+21, SKK21, SIO20, SCS18, TB19, TSI20, YAT20].
maps [AH08, CD99]. marching [AF13, FLG08, GD15b, GNH10].
marching-on [AF13]. Markov [BBZ95, Dra00, DMS09, vGK04].
Marquardt [SG17, SG18]. Martensen [DS15]. Maruyama
[ABB15b, ABB15a, GMY18, LM17b, VH12]. Mascheroni [Che16a]. Mass
[Sz93, DF0+10, MV10, QLZ11]. massic [FJT94]. Massively
[AL07, DM21]. master [MB09, San14]. matched [DL21]. matching
[ASW06, BKPS93, Sch17]. material [RW06]. Materials [BE03, RW06].
Mathematica [MdR13]. Mathematical
[Ano92, CR00, DHL+04, DJS20, JR20, PH20, WZZ15]. mathematics
[RK11]. MATLAB [AEF+14, BNN16, BMR19a, DdAF+20, GHN19, HL03,
Sut17, Yan17, ACF99, CDSV11, CFR19, FHH99, Han94, Han99, Han07,
LP13, LLZ18, MS14a, Mi20, NPP04, RZR12]. Matlab/Octave [CDSV11].
Matrices [BO03, BG03b, CPV04, DL03, DR01, FG03a, Han02, HR03a,
IMT02, LV01, The97, AAAA+18, ADL05, AN15, AN17, AC20, BCW13,
BM19, BM94, BM12, BG91b, Bos21, BK16b, Cas17, CD96, CT93, CO94,
CP00b, CCLW15, CW19b, CT06, CK06, DLL12b, DLL12a, DPP19, DP16,
DS09c, DS12, DR12, EGG08, EG19, EK94, Ern00, ED13, FRJT09, FLV14,
FM99, FD15, GWL18, GEP14, GEP16, GMP92, GV00, HJ16a, HN94,
H93, HPS97, Hii10, HW18, HM18c, Hua18, JBB17, Jia06, JL16, Jia20a,
KH18, KV00, KM09, KM13, KRS19, KN21a, KN21b, LW00, LRT19, LZ14,
LPGL16, LL16, LG17, LDS17, LL20a, LYH+20, LQ15, Lu15, MVV05a,
MW98, MT15, MK97, Mit11, MA95, NIS20, NR12, Orb15, PS06, Pol10,
RZ12, RWT19, Sch17, Sto93, Tan17, TT06]. matrices
[TA13, TK94, VG06, VBG06, Vos00, WGZ18a, WZ15b, WPL18, XHZ07,
XLW20, YHZ20, YLY12, ZCG15]. matricial [BC09]. Matrix
[AH03, ABQ04, BP03, BFK+09, BFK11, BCM10, BZ18, CP01a, DP01,
GS19a, GL04, GCGVH92, HE05, HS03, JS15, PGGC97, ST02, AMH10,
AMA21, AM21, AL09, BMA16, BBQ07, BL92, Be08, BQO99, BEQOR14,
BEJ20, Ber00, BM15, BMR19a, BSF17, Bos21, Bre00a, CR00, CW19a,
CS18, CR20, CZ20, Cve06, DLL13, DMT13, Dax17, DMD16, DMR20,
DPP19, DM97, DLLD17, EG19, FPP05, FYI+12, GWW02, GI10, Guo13,
GL20, H18a, H16, H105, Har18, HHL21, Hig97, HS16, HN16, HST15, jHyPl06, HM18b, HM18a, HM19a, HJ21, JL15, KP96a, KST06,
KZ18, Ke21, KPS14, KKM20, Lei15, LY17, LMU19, ILhYID07, Low05,
MS92, MPS20, Mu09a, MG20, MG21, MK94, MG11b, Mor17, NZ19,
OOOR12, hPwL09, Pen13, PLH20, PZ20, P08[18b]. matrix
[ROB17, ROB18, RWT21, R912, SY20, SS21, SZ99, TP14, TM10, Uhl09,
VB92, VC10, WCB15, Wai93, WPL18, XH207, YKY15, YLD11, ZTW19,
Zha11, ZHY+20, ZLL+21, ZY13b, ZLV17, ZV19, ZV21, Zhi15, BBP12].
Matrix-free [BZ18]. matrix-less [BL92]. matrix-type [BL92].
matrix-valued [AM21, Low05]. Mauro [BT14]. max [fLxX12, Smi06].
max-cut [fLxX12]. maximal [CV92]. maximization [TD09]. maximum
[FM19, GLM15]. Maxwell [JLFL19, LZXX21, Yu21]. may [KW07].
McCallig [Dun94]. mdLVs [NIN12]. MDPMHSS [CW19]. Mean
[Neh04, WCHK21, ALRT16, Cas17, Flo16, FP20, GQ09, SZ20, YCW+19].
mean-field [SZ20]. Mean-square [WCHK21]. Means
[BCV03, CD01, Bin96, BM06, GS95, Mil20, Pie99, The12]. measables
[ALB+18]. measurable [Dam08]. Measurement [Dab04, CHH93].
Measurements [MKO04, Zak17]. Measures [BBR03, Sza03, Dam08,
DFP+10, EK94, FMD18, GHM08, Man07, Man10, Not95, TTV21].
mechanical [CHH11, LHW13]. mechanics [GHP+00, MZ19]. Media
[AA03, CGN03, GM20, JLFL19, SLA15, Yu21, ZZ20, dOS07]. Median
[CSFC04]. medical [CTS09, HOW95]. Meir [VA20]. Mellin [DL18, Mon96].
memory [AB99, BD17b, CLBT15, FT14, JKN13, KB16, Lin14, LSG15,
LXQ15, Orb15, PS16, SS06, VL19, WZ15a]. memoryless
[BK16a, BKA19, LTP18]. Menten [SMK14]. merit [ZLC11].
meromorphic [EAB20, PS00]. Mesh
[MST01, MT04, NS01, SC03b, ST02, WCM94, CD15, Das19, FHC21, Kac18,
Maj14, MS01a, Moh10, MK17, NV21, QL12, ST98, YHQ19]. meshes
[CL00, C92, C95, C96, CL96a, CGL99, GL99, FLR01, FS21, KK16, Lin05,
LRV18, LZ18c, MT12, PR10, PTSB01, Ple12, SS08, SK1+18]. meshfree
[BS19, SB21]. Meshless [Flo03, MS14b, AD17, AF13, Ant18, AAD14,
CMD19, DS09b, DAM16, KB20, MFP07, Mil13, Mill20, Sal17, SH12, SW14].
meshless-type [SH12]. metal [NAR05a]. Method
[AZJM10a, AG03, ASS03, BD03, BD04a, BBD03, Bog02, BE03, BM03, Che04,
CN01, CGL01, DLL04, DG05, Ds09a, DFF04, ED05, Fm01, GPH01b, GSA03,
JC04, KV04, KZ03, LRGH02, Nac03, PG05, Rece01, SC03b, TC05, VR04,
WSY04, ZI01, ZKD04, ALQ17, AS10, AJ13, AD17, AEH20, AK19, ATC16,
AA20, AA12a, ADL05, AK12, AM01, ABB15a, ABB15b, AB99, AM12,
ASS13, AG19, AC17, AABM17, ADA07, AA09, And18a, And19b, ABM10,
AC11, AU18, AH08, AR09, Arg09, AH10, AH11b, AH13, AHVR17, AGS20,
AM18, AC19, AT17, AAD14, AGG17, AHC13, ACH17, ACH19, AVI97, Awa10,
Bac18, Bac20, Bac21, BRR13, BD06, BEM99, BDV18, BCS18, BBCS21,
Bel08, BB14a, BKS13, Ben99b, BEJ20, BEHS20, BX17, BFK20, Bhr16].
method [BZV16, BRW11, BFK+09, Bia12, BK18b, BFKM20, Bic11, Bin96, BF14, Bno21, BS19, BX19, BRMG18, BHT16, CQ16, CR96a, CR96b, CR99, CMRS00a, Cam19, CM15, CHY19, CW21a, CG20, CP95a, CD96, CL10a, CZ14, CC15, CC16a, CCL18, CKY99, CL06, CLA11, CD15, CM16, CC16b, CW16, CFL19, CW19b, CDLW21, CC13, Cho16, CW17, Cir20, CIJ7, CVX16, CFK+20, DW12, DWZ14, DWC18, DMT13, zDYG18, DD20, DMC20, DS11, DM98a, DL18, DS09b, DAM16, DS20, DBH21, Deh20, DC17, DZ13, DN19, DG05, DW15c, DEM93, DBAE09, Don16, DJG18, DS09c, DYW16, DLDW21, DL09, Dm13, DHMS16b, Eft15a, Eft15b, EDAM13, EG18, EE18, EN11, Ema96, EH97a, EA12, ES19, EGGSH13, EHVRV14, EED19, FAMA20, FY13, Fan15, FY19, FEL15, FGM19, FZL+16, GFC19, FHC21, Le19, FLG08].

method [FR18, FR12, GM06, GHC15, Gás99, GKL21, GN12, GK20, Gla01, GNH10, GO20, GLd09, Van17, GLRSG08, GO06, GP05, GMS99, GL15, GSV96, GZ11, Gu20, GLW20, GMY18, GL20, GHPMSG14, HLS10, HHST19, HT16, Ha09, HL06, HYW20, Har20, HHN07, He16, He06, HZ93, HSTW14, Hey99, HSE16, HS16, HK06, HSK20, HST15, jHyPIZ06, HLT16, HNY+18, HLZ14, HL15b, HLC15, HL17, Hua20, HZ20, Ila20, IDAV09, Jai16, Jai17, JL12, JSF13, Jat15, JR20, JCL16, JNS19, JZF+20, JHLL15, JWL20, JYLC21, Jón93, JN99, KKPT16, KJ18, Kao20, KP96b, Kar15, KCHD16, KAF18a, KAF18b, Kc07, KR11, KS20, KH11, KG14, Khe16, KH20, KK17, KL06, KPA20, KH18, KL10, KK12, KB20, KHM20, LP08, LP12, Li95, LMMH11, LLS11, LWwCL13, LYW14, LHW17, LG18, LZ18a, LWZ18].

method [LLL18, LRC19, LHR20, LLX20, LM14, LZ15, LZ16a, LZ18b, LZ16b, LGW14, LS15b, fLxX12, Lin16, LHL11, LM13, Liu14, LWQR15, LS16, LM17b, LRY18, LL18, LF19, LD1+19, LLC20, LS20, LTP18, LWN13, Lor19, LKK21, LG95, LKKM15, LPXX19, LXP20, LV21, MBG19, Ma20, MGL20, MsC20, MBJ17, MAS17, MC08, MN17, Maj13, Maj14, Mat15, MFGP07, MM09b, MB06, Meh11, Mia19, MZ19, Mil13, Mil20, Mil19, MS14b, MDH16, MDL15, Mok16, MR96, MR06, MPB16, MSMS12, SM12, MS13, Mot14, MWVV13, MM11, MA12, MAFN16, NJ13, Nee93, NEMS14, NAA19, Now06, Now13, NW17, OdZdRV13, OBAH+19, OOO11, Pan96, Pan18, PFT98, PG12, Par16, PC13, Pea13, PRK+18, Pie96, PV00, Pla99, PR93, QL12, QXGZ20, RKMS16, RR20, RMT13, RBN14, RT19, Reb97, RN21, Ree92, RSZ20]. method [RWB09, RAH11b, RW7W19, RWTM21, RM13, RW06, SS99, Sad99, SAC18, SSI4, SP21, Sal17, SLW13, SHF15, Sch08, Sch17, SEG14, Seg98, SMZMA18, SB21, SW14, SS12a, SGS13, SL20, SIO20, SHLY18, SSYL20, SS06, SW11, SCDM20, Sho18, SGJ15, Si12, SLO20, SS21, Śmi06, Śmi13, Sol11, Sol15, SJ14, SYLT14, SG17, SG8, SXH20, SJW21, Sool15, SGK+99, ST98, SZX11, Sut17, Ta92, THF21, TO21, TYSY20, TBY13, TH18a, TVC20, THE20, TY96, TA13, THT19, Val14, Val15, VC10, VdR13, VDVJB12, VL19, VCL16, Vos00, VT10, VN18, VS19, WT08, WKG11, WKG11, WK12, WSY12, WZ13a, WW14, Wan15b, Wan15a, WZQT15, WZ16, WCLW16, WZQ17, WGZ18a, Wan18]
Wan19, WLMA21, Wei17, Wei18, WRM17, Wit96, WB17, WC10, WWD+12, WC13, WZZ15, WL17, WPL18, XW18, XLW20, XZW13, XL14, XH20.

**method** [Yak95, YAT20, YWX14, YYL15, YZLP16, YW17, wYN18, YJ18, YSLH19, YZL20, YPL21, YZ21, YHS18, YZBJ21, YL16, YZ11, YJX15, Yua21, ZR17, ZA20, ZZ17, ZWWW20, Zha11, ZW12a, ZY13a, ZJ14, ZHT15, Zha15, ZD15, ZZY18, ZFC18, ZSF18, ZZ19, ZYX19, Zha19, ZJJ20, Zha20, ZYW21, ZD21, ZH17, ZWG18, ZWW21, ZG12a, ZG12b, ZL17, ZV19, ZV21, ZCG15, ZL17, ZS08, ZCS14, ZW15, Zhu15, ZYLN18, ZLTA16, ZS13, ZD18].

**Methods** [AH03, Ano05b, BCN+16, BKM03, Bre02, BZ02, Bre03a, BJ02, But02a, BH02, BJ04, CVA01, CO03, Che02, De 02, DOS03b, EJR02, FG03b, GPP01a, GR01, IW04, Jay02, Jbi03, KB02, LS03a, LM04, Lu02, Mar04a, McL02, MR02, NPP04, NKS04, PR03, PL04, RS02, SFT03, SME03, Tir02, Van02, Wri02, AAA+18, AH11a, AHP20, AHJ17, AMM11, ABS19, Ahi09, Aih17, AMCM06, AK15, AH15, ABI20, AH14, AAH18, Anh19, ATT21, AT21, Ano17, ALZ21, AMM16, Ant18, ASHF21, AH09, Arg10, AH12, AM16, AG17, Ari98, AKT15, AKKT16, AKQ17, Axe99, AK00, ANA14, AFN16, AFN17, BKG15, BKR18, BKA19, BD09, BD10, BBS20, Bag00, BR06, BMR97, Bai97a, Bai97b, BBC11, BZ13, BRY14, BLW09, BRZ18, BBBC20, BBO21, BJ98].

**methods** [BHS11, BOW21, BCM16, BHS14, BH17, BR07a, Ber10, BCT15, Bia94, Bia15, BE20, BRZ96, Bre99a, Bre99b, Bre00a, BRZ19, BRZ20, BF99b, BCI14, BS14, BMR19b, BV09, BGZ20, BR14b, But98, BD09, BC99, BC01b, BC01a, BH05, BH09, But10, BI14, But15, CWZ13, CE17, CGPM00, CR12, CW19a, CCJ10, CIP10, CJ12, CJS14, Cas17, CS99, CZ94, CZ95, CZ96, Cd09, CT10, CTS09, CL13a, Che14, CQLY15, CGYZ19, CLWH20, CL10b, CH11, Che19, CN16, CN17, CL93, CGL99, Con93, CD14, CD16, CHMT10a, CKKT16, CPN14, Cuy00, CK06, CHK14, CKS16, DJ10, DFJP10, DEP12, DDP14, VV07a, VV07b, DHJJ10, DMA19, Die08, Don10, DBGB11, DR07, DLD17, Dzu13, EG10, Eba18, EHTSM21, EHN17a, EHN17b, Erb15, Ern00, EGSHVN15, Fun19, FYM14, FYYW19, FHL21]. **methods** [Far20, FHS12, FH15, FT14, FGP91, FH96, FRR07, FGR01, GH10, GA15, Gal18, GD15a, GP99, Gar20, GH19, GX19, Gon16, GPHHAPR18, GLV05, GS19c, Guo13, Gut15, HT21, HH11, HH12, Hal14, HJ18b, Har18, HT19, Hea10, HR14, HPS97, Hey01, HE05, HMA16, HR00, Hil10, HCH18, Hua94, HZ15, HM18a, HWXC19, HYJ20, HM14, JT96, JMK18, Jay21, JS15, JM93, KCBT21, KT07, KNGBV18, KD14, KMZ18, Kee94, Kha14, KS14, KMA13, KJ15, KKM20, Ku10, KK16, KGMH21, KV12, LS14, Lam09, LP13, LEK21, LI97, L13, LW14, LW16, LY17, LG17, LM17a, Li17, LDW18, LG19, LC19, LRL19, LZ21, LZZ19, LCH20, Lin98, LT20, Liu11, LSW16, LX17, jLyLqW17, LD20, Lie18, Lie20, LG15, LSS15, LHW13, ML20, ME92, Mac96, MA16, MP07, MHI17, MJ18]. **methods** [MJ20, MVVA08, MM19, MR12, MT18, MV17, MG20, MG21, MC1XzJe16, MG11a, MSZ20, MH08, MP13, MKS18, MRS10, MHA16, MS96, NBK17, NW19, NHP06, NRS12, NC94, NB16, NK16, NK21, OQ12, OMW21, O114, OLB94, OM18, Osa92b, Osa12, ODL21,
[AB06, AAH18, AHK04, AHK05, BK13, CW19b, DWC18, DYW16, GSA03, GHA19, HWXC18, HFW+21, KT07, Maj14, Rei98, SS12a, SW11, TH18a, WRM17, WL17, XLW20, dAR06, AAN14, And10, AC19, AVI97, BKFMA11, BK16a, BD06, BF18, BW13, BG91b, BRW11, Bra06, BGVN06b, CS18, Cam19, CD96, CC16a, CL13a, CWL16, CHMT10b, DW12, DL18, Deh20, DJG18, Eft15a, Eft15b, EK94, FG19, Guo16, GLL19, Hem94, HWXC18, KM17, KM19, KR20, LG17, LG18, LLLD17, LI20c, MP00, MMGH17, Mei09a, gOM14, RT19, Sab92a, SS12, SI12, SCS18, TY96, VBG96, WBG96, WK12, WK13, WK14, WK15, WC13, XM16, XZP+20, XC1, YAT20, YZL17, Zha09, ZYW21, ZV19, ZCG15, ZCS14]. Modify [AA16b, Hea10, MH08]. modular [RZ16]. module [VB92].

module-theoretic [VB92]. moduli [RZ16].

Modulus [BZ13, MG20, MG21, CW19a, KMZ18, LY17, RWTW19, WPL18, XZP+20, Zha11, ZY13b, ZLY17, ZV19, ZV21]. Modulus-based [BZ13, MG20, MG21, CW19a, KMZ18, LY17, RWTW19, WPL18, XZP+20, Zha11, ZY13b, ZLY17, ZV19, ZV21]. MODUS [MSCB93]. Moisil [Ca93].

molecular [CB00, Rei98, Saf10]. Molecule [MN01]. Molecules [LM04]. mollified [GD15b].

moment [BH92a, LTI+17, BGVHN92c, Hag13, Hua96, IS17, JLP20, RS93, Sch17, Str09]. moment-based [IS17]. moments [BG91b, CP95a, Mah10, Roh07, VBG96].


Monotone [Guo13, KLT03, AAB13, AG19, AKB15, AT21, Bog13, BC16, ER19, GS21, GZ11, KAF18a, La 17, LZ11, LYY12, LF19, LQ20, Ngu16, RIAA19, RW11, SI17, SI18, SLD20, TAM21, TB19, TTLD20, TS20, WES20, WD96, YL19, YLL20]. Monotonic [LM08, VN18, Xu19]. monotonicities [Leo07a].


MSTMAOR [CKS16]. Much [GR01]. Müller [WT08]. Multi [BC05a, LI16, LG17, AT16, BD09, BD17a, Bhr16, BMIR19b, Den14a, DLHY17, GLW16, HS15, KT07, Li17, LSZW19, LWT19, LKB17, MBJ17, NHP06, Saf10, Sal17, Sha97, SW19, SzS21, WK12, WW14, WK15, WK16, WK17, WMLA21, Wei17, YZ17, ZYW17]. multi-center [Saf10].

multi-degree [GLW16]. multi-dimensional [Bhr16, HS15, LKB17]. multi-frequency [BMIR19b, SW19, WW14, YZ17, ZYW17]. multi-point [BD17a, KT07, NHP06, WK12, WK15, WK16, WK17]. Multi-resolution [BC05a]. Multi-step [LI16, LG17, AT16, BD09, Li17, MBJ17, Sha97].


multidimensional [KLSS14]. Multidimensional
[VR04, BGRS09, CL92, GZ11, MZW20, VPL97, WW14, YZ17].

**Multidomain** [CFK92+].

**Multietremal** [MS01b].

**Multitigrid** [Gás99, Jan03, PV98, vLV02, BH01, CL00, CC06, JK19, MCIxJe16, PV00, XH20, YZ11, ZY13a].

**Multigroup** [AG03].

**Multilevel** [CK05, HMT17, IL05, LW20, Men02, Osw01, UL18, Axe99, CZ96, LXQ15, MRS10].

**multilinear** [BHLZ21].

**multiple** [Boy05, BS14, EE18, HPS13, Rev03, AS10, BCM16, BCMT18, BRW11, BF14, BCM10, Bu017, Cla100, zDYG18, DMD16, FHY15, GH10, GH99a, Gás99, Hey01, HE05, HCH18, KBCG13, KD18, LK20, LMMH11, PM05, PV00, RG10, SS12a, SHLY18, SSH20, VSA12, WLL12, ZCT19, ZCS14].

**multiple-root** [LK20].

**multiple-sets** [Bu017, zDYG18].

**multiples** [Bea96].

**multiplication** [OOOR12, Rum12, Ska13, SH17].

**multiplicities** [GLM15].

**Multiplicative** [MG11a, ORBB14, OB16, WG13].

**multiplicity** [GHPMGRR14, LWG18, Tur94].

**Multiplier** [Kun01, GL15].

**multipliers** [LWZ18, RWMT21, ZZY18].

**multipoint** [AG13, BD10, BGVHN96a, CCTV16, WGK11].

**multipole** [DMC20, LX17].

**multiprocessors** [AAIT94].

**multiprecision** [BF00].

**multiprocessors** [MM12].

**multiresolution** [ASS03, Rad08, ABT07, ALRT16, RR08, YL16, dCOS21].

**Multiresolution** [AS03, MR97, Bai97b, BZ13, SX00, WRM17, XZP12].

**Multiresolution** [BVA12, FHY15, HCH18, LCH18, Lóc20, MJ18, Meh11, NB16].

**multithreaded** [Ka15].

**Multivariate** [ARSS19, EE18, MPB16].

**Multiwavelet** [BP03].

**multiwavelets** [BCL00].

**Muntz** [Maz99, ROB18].

**my** [Gau07].

**nano** [FHAL15].

**nano-fluids** [FHAL15].

**Nash** [BK18a].

**NATO** [Ano93].

**Natural** [CDI14, Tra93, ZZH15].

**Navier** [BRV14, BW13, BK18b, DSS14, Hei06, HM18c, KM17, PV98, PV00, PG05, Si12, Sla06, XM16, ZD18].

**Near** [BV21, ACM93, BDIR18, BRS91, BRS92, BZ94, CD99, CM96, DH99, ME95].

**near-best** [BDIR18].

**near.breakdown** [BR91, BRS92, BZ94, CM96].

**near-minimax** [ME95].

**Near-optimal** [BV21].

**neary** [Gau13b].

**nearest** [HS16, Zhu15].

**Nearly** [Boy05, Ple12, KN21a, KN21b, SKK21].

**nearly-colliding** [KN21a, KN21b].

**Nearly-Singular** [Boy05].

**nerness** [LHZ10].

**Necessary** [Mat01].

**negative** [DGST15, LV15, PLH20, XyJ16].

**neighborhood** [SMZMA18].

**neighborhoods** [Len93].

**Nekrakov** [LDL17, GEP14, GEP16, LPGL16, LDL17, LYH12].

**Nemes** [LM15].

**Nernst** [SSYL20].

**Nested** [ABQ04, DB98, BK08, CL19].

**Nesterov** [Khe12b].

**net** [CFR06].

**nets** [God15, Lai92].

**Network**
non-separable [MM12]. non-similarity [FHAL15]. non-singular [NSM20].
non-smooth [Lam09, MLM20, Smi06]. Non-stiff [AM98b].
non-symmetric [FP18]. Non-uniform [BR07b, Ave20, DLR12].
non-uniformly [dS00]. nonabelian [VW08]. Nonautonomous [KS97].
nonclassical [Die08]. nonconvex [ALV20, BMR21, BE20, Liu14, LPXX19, mTLbJL14, You16, YWS20].
nondecreasing [Don12]. nondegeneracy [HBP13]. nondense [AR99].
Nondifferentiable [MS01b, MS09]. nondiscrete [AH12]. nonequidistant
[PKR20]. nonequispaced [BR07b, Ave20, PPV09]. nonexpansive
[CSI16, CSI17, CRN19, Den14b, GEA20, HMA16, IAH20, KAF18a, MWsC19, PKC18, PDRG19, RZ16, SKK21, SIO20, SCS18, VA20, YAT20].
nonexpansive-type [CRN19]. nonhomogeneous [BKF20]. nonintegrable
[Ben99a]. Nonlinear [AD00, Ber10, BKM03, BE03, CGL01, DOS03b, EHV19, Gra03, HL03, KV04, KW04, Kol04a, Kol04b, PL04, SME03, TRRD02, WK93, ZY13a, ZZh01, ALQ17, AK19, ATC16, AAB13, ALRT16, AKB15, AC11, Arg10, AGS20, AAD14, ACH17, ACH19, AKKT16, AKQ17, Awa10, Bac18, Bac20, Bac21, BDN17, BM97, Bai97a, Bai97b, BDV18, BC14, Be99, BF18, B100, B1r6, BV99, Bog13, BKL10, BRMG18, CC10, CC06, CL06, CL+13, CW19b, CL10b, CH11, CC13, Che19, CN17, CN15, CHMT10a, CLBT15, DS21, DW12, DWC18, DD20, DS11, Das19, DMA09, DMA19, DBH21, Dem14a, DEM93, Don13, DXY18, Dzu13, Eft15a, Eft15b, EL01, EGGSH13, FY13, GA15, Gal18, GM06, Gar19, Ghe15, GO20, GLd09, GPAA14, Van17, GZ11, GZP18, Gu20, GLS+18, Hai09, HJ98].
nonlinear [HV15, HKE97, HZ95, HSTW14, Hey99, HST15, HM18a, HYJ20, HFW+21, JKN13, JKM18, JLF19, JWL20, JYLC21, JZ16, KK16, KCBT21, KT07, KSR08, KLF17, KE16, Kub15, KB20, La17, Le92, LW95, LMMH11, LS15a, LY17, LH17, LG17, LG18, LHM20, LZ21, L11, LB1F17, L16b, L90, LLY15, LF19, LL+19, CLLC20, LV18, LV21, MD21, MBJ17, MK98, M12, MM12, MG21, MG11b, MP13, MLM19, MS13, NBK17, NPH0, NEMS14, OQ12, PED15, PS16, Pie96, QLZX11, QZG+19, QXG20, RSKB17, RGJ10, RM11, RT12, RR98, RR00, RM13, RG10, SPV20, SS11a, SGS13, SA14, SY20, Shi96, SW19, SCDM20, Sid20b, Smi09, SS16, Sol11, SG18, SX00, USAF14, Van19, VASA12, WG13, WH15, WZ15a, WZQT15, WCLW16, WZG18a, WZ19, WHS20, WC10, WWD+12, WC13, X1W20, YLY15, YH21, YZ12]. nonlinear
[YYJ12, YP09, ZR17, ZA20, Zha09, ZLG+13, ZHT15, ZJWF18, Zha20, ZY21, ZHFW21, ZW20, ZGC15, ZLLC11, ZTZZ19]. nonlinearity [Liu21].
nonlinearily [KLT05]. nonlocal [BSF17, LZ09, ZS13]. Nonmonotone
[CC13, FGBP21, GPP01a, KJ15, AA12a, AAN14, BKR18, BKA19, DHF21, HWC15, LLL18, LM13, PZ20, SW11, ZLLC11]. Nonnegative
[DL14, WD95, AN15, AN+17, DLDW21, GLL19, HNY+18, LP08, LP12, LP13, NK21, SXH20, wYN18]. nonnegativity [BHLZ21, BPR21].
nonnormal [AC94b]. nonoverlapping [ETY98, WRM17]. nonpositivity
[Hua18]. nonresonance [ACE99]. nonsingular [BHLZ21, HWC19].
Nonsingularity [HBP13, Kol06]. nonsmooth
nonstandard [Gau09d, HSL19, PV00]. Nonstationary
[Cha04, SKSS21, Cici20, Don12, HRY16]. Nonsymmetric
[BEGG91, AL09, BBS20, BC94, BEJ20, BRZ98, CS94, Cdv98, Don10,
DBGB11, Ess98, HWXC17, HWXC18, L15, Sad99, Sch17, YWX14].
Nontensorial [SVZ08]. Nonuniform [PS01]. nonuniformly [dB05].
Nordsieck [BCJ97, BJ02, BO02, CJ12]. Norm [BM94, ASW06, AS08,
Co09, FHC21, HYW20, HM18b, LEK21, LPGL16, L2II.20, LCH20, L10,
Meu97, Meu99, Menu05, MT13, MT14, MT19, Not12, Szy06, ZFZ19]. Normal
[CD99, Che01, CD06, FLV14, MT15, MZ99, MK97]. normalized [YC19].
norms [Bea96, CMMP19, MT15, TM20, Wat92, Wat93, Wat94]. Note
[CVA01, L2YH20, Cao12, CC15, DMM20, FHH96, HLC15, Hua92, Iva15,
Kw96, LB93, L19b, MVV05b, Nie93, OdZdRV13, PGCCGF11, PRV10,
Pol10, Sah92b, Spa07, Spa20, VGV06, ZJ14]. notes [Al08a]. notion [Ga16a].
Novel [ALB+18, GS16a, LWLT19, Liu21, SSN12, ALQ17, BX19, CLA11,
DM98a, GPA014, H114, KE16, SA14, TCOA19, TCW14, WLMN21, X17,
YJX15, YXL18]. NPTool [LP13]. NSS [DWC18]. NT [KE17]. nuclear
[ZF19]. null [KMA13, RT20, Takt17, TM10, THT19]. number
[Ber11, BGL07, Dea15, DM92, KN21a, KN21b, XCLA15]. numbers
[CL11, DL97, DP16, Ka00, MZW20, ZLQ09]. Numer
[BR92, CZ95, CP95b, Gau11b, To98]. numerical [BY20, Mi17, MCX20].
Numerical [AHP20, AA03, ALW98, AAH20, ADG10, AR13, AK16, BK97, Bin96, BV99,
BBB+06, BV96, Bre96b, BH02, CE17, Car01, Car95, CGN03, CLA10,
CLT+13, CCL16b, CCI18, Co03, CCK04, DWZ14, DV01, DL03, DVBN03,
DKL15, DW97, DLDL17, DLDW21, FWC16, FH15, FRS21, Gau12a, G199,
G099b, GST02, HJ18a, HCL21, HNHS09, Hof05, HS15, H1FZ19, ICO06,
IXa21, JP14, JS21, J1L6, Kam15, KGH14, KCSC07, KZ03, L12, LD20,
Lyn08, Maj13, Mat04, MJF09, Meu99, Mok16, MO04, NW04, NLT21, PP05,
P15D10, POP17, PL03, PS01, PS16, PS01, PS17, PV03, RS20, RRR0, SRT2,
S19, Scho2, SLA11, SLA15, SY20, SS08, Smi97, TE03, Tem97, TB13,
Tom11, USAF14, V10g4, WZ14, ZM94, ZWWW20, ZJ08, ZLT+17, aZ19b,
ZKD02, ZK04, ALB+18, AG15]. numerical
[AZ19a, ASS13, AA15, ADA07, ABI20, AN18, AH18, AAD14, BS17, BV93,
BMC19, Be99a, BT14, BCM07, Bic11, Car05b, BR17, Bra07, BMR19b, Bru93,
But10, CWZ13, CHY98, CM98, CM15, CC07, CP95a, Che19, Cho17,
CPN14, DS21, DDS93, Dam08, DM98a, DM98b, DS09b, DT109, Des17, DH18,
DL97, Die08, DW15c, Dra00, EG10, Eba18, FHL21, FTO1a, FS01, GZ18,
GMZ19, Gau95, Gau98a, Gau13b, GL12, Ghe18, GK20, Go15, GPA014,
GO06, GL19, HH11, Han16, Han96, HV15, HLTA16, HL17, IJE15, IJSS16,
JLP20, KS18a, KL17, KS20, KKO17, KM09, Kuh13, KK12, KK16, KK17,
LLZ18, LHZ20a, Lin16, Lin98, Luc06, LG95, LV21, Ma121, MKBY19, Man10,
MFPG07, MB06, Me10, MZ19, MR96, MN11, OQ12, OK21, PSS10, Pen98]. numerical
[PV9H, PV00, Rab92a, RC14, RGJ10, RMT13, RHG15, Riz18,
RB17, SAC18, Sal05, SHF15, SW14, SS15, Sho18, SKTGR19, SS12b, SYLT14, SZ20, TS18a, Tov97, Tov98, Uhl09, VC92, VH92, VT10, VN18, WXQ20, WCHK21, XCY21, YJX15, Zu19, ZXY19, ZE10, dC16a, dC16b, Gau13a. 

Numerically [Ver10, DGST15, MD21]. Numerov [JSF13, Moh10, MK17, SFT03]. Numerov-Type [SFT03]. NURBS [CLaL00, KGD03]. Nyström [AMCM06, CQLY15, Con93, DDP14, DL18, Jat15, LG19, Mon96, PFT98, SQG13, Som05].

Object [NPP04, CV92, OBAHK+19]. Object-Oriented [NPP04, OBAHK+19]. objective [PLVB11]. objectives [Hua96]. oblique [HR05, SEG14, Szy06]. Obrechkoff [VV07a, VV07b, KS20, SS15]. observations [GP14]. obstacle [PS20, ZWX19, ZW20]. obtain [AGS08, GPAA14]. obtaining [WLL12]. Octave [CDSV11]. ODE [ABI20, Cor02, Eyr02, EY10, FGM19, KLT95, KPR03, MM99, MT04, MN92, gOM14, PLVB11, ST92, SGK+99]. ODE-based [FGM19, KLT95, gOM14].

ODE-IVP-PACK [SGK+99]. ODEs [ATM19, AK16, CE17, EH97b, Meh11, NB16, WWM21, AHKW04, AHKW05, BV09, MC08]. Off [BO02, AMM17, EY10, KL17]. Off-Step [BO02]. Ohta [LZL20]. Old [Nie00, RR13, BRZ96]. Oldroyd [WSY12]. Olsson [Ben99a]. One [Boy05, KS06, Arg99, BX17, BP19, Bra07, CLA11, CDD10, CJ20, DS09b, DHS09, hGzS17, GO06, HR07, KKPT16, KNGBV18, KMS05, Lie00, Lin05, MM08a, Mat15, MZW20, Nat07, Ros97, TS92, WW19, WZ19, ZLW+13]. one-block [BP19]. One-Dimensional [Boy05, BX17, Bra07, CLA11, CDD10, CJ20, DS09b, hGzS17, KKPT16, Lie00, Lin05, Nat07, ZLW+13].

One-leg [KS06]. one-point [HR07]. one-stage [WW19]. one-step [KNGBV18]. online [HFW+21]. OPED [XTH07]. open [BPV13, Xue95]. operational [JBB17, ROB17, ROB18]. Operator [MDL15, TRRD02, Ahu09, AG19, AK09, BVV14, CT06, Dah93, Fue07, HS12, ML10, Pia99, PS17, SS14, TCOA19, ZWW20]. Operators [All03, BG03a, BS04, DV01, Fun01, GPS01, INR01, LPV03, AA16a, AR16, AR20, AM21, AR99, AV19, AT19, AUD18, AHVR17, AKT15, BDIR18, BvLP16, BG13, Den14b, ER19, GTA19, IR13, KADE18, KGMH21, LW95, LQ16, LMM05, LG95, Mah10, Maz09a, Mic93, MP14, MP13, MRS07, MAK20, PKC19, SPV20, SI18, Tam10, THS20, VdR13]. optical [Wan15a].

optics [Kar07]. Optimal [AN17, Amo02, AC19, BD03, BD04a, BCN+16, CKP19, Che19, CKM19, DJM+18, FY13, GWBC20, HWC19, Lòc20, MV14, Mar04b, Mat01, Mic93, Plo94, Prz16, Si07, Van19, AJ13, AHR21, ALZ20, Bac21, BVV14, BCM16, BCM12, Ber93, BM00, Bla15, BV1, BHS17, CR16, CT93, CN16, CMMP19, CKKT16, DL21, DFI09, Ehr97, EDH12, Fab16, F07, GA20, HW00, HAMS11, KP16, KS14, LK20, LWZ18, LZL20, LAN18, LCH20, LW17, LL18, LP20, Lòc18, LSSS15, MB06, NEMS14, NAA19, OMW21, hPwL09, Ple12, Ria16, SLT20, TS18b, Van07, Ve10, VS19, WZ14, YJ21, ZCT19, ZZZ20, ZZ18]. optimality [GEP19]. optimised [GL15]. Optimization
CG13, Cse04, LPV03, MCG+04, MS02, NM14, SR04, SMB02, VR04, ZS03, AA12a, AN17, AAN14, ARSS19, And06, And08, And10, And14b, And15, And18a, And19b, ABM10, AE18, AFN16, AFN17, BBBC20, BGRS09, BMR21, BE20, BN18, CWZ13, CW21a, CGYZ19, CPN14, DW15a, DW15b, DBH21, DEM94, EL18, EE18, GL12, GWL20, HWC15, HLC15, HFW+21, JR20, JZ16, Khe12a, LZ18a, LLL18, LGW14, LS07, LM13, LL18, LPXX19, MAS17, MR09, Md12, MS20b, MPB16, Orb15, gOM14, ODL21, Pea13, PH14, PLVB11, RGo95, SL18, SMZMA18, SS06, SDMMK18, Tan20, mTLbJIL14, TYSY20, TD09, WJW14, WZ16, YCL17, You16, YY13, ZQL+19, ZWG18, ZFZ19, ZDSY20, Ano95c. 


Orbits [CCTV16, SER02, DFK97, LZ12, MO10]. Order [AG03, BM03, Che02, CJ04, DDP14, FG03b, Fun01, MV02, McL02, PW04, SFT03, YZY+14, AD17, ABS19, AK12, AR13, AHC05, AMA21, AABM08, AC17, AAH96, ACE99, AMM16, ACSD16, Arg09, Arn97, AGG17, AKT15, AKQ17, BD10, Bac21, BD1+12, BJ98, BCM16, BMC1+18, BKF20, Bia12, BK13, BW15, BC05b, Bla15, BR17, Bou17, Bra07, BV09, BGG20, But98, BD98, BC99, BCJ99, BC01a, BI14, CEX14, CHH+20, CLT+13, CW14, CQLY15, CC16b, CN16, CN17, CGL99, CJ17, Col92, CVX16, CHMT10a, CKKT16, Cui13, VV07a, VV07b, DHJJ10, DD20, DMA09, DZ13, DW97, DB06, DK00, DGP15, EH97b, EM07, FAMA20, FH21, FT14, FGL19, FGR01, FR18, GH09a, GM20, GLLJ12, hGzS17, GZ20, Gau00, Gau09a, God15, HH11, Hai08, Hai09, HP18a, He16]. 

order [Hen10, HDP18, HKKN12, HMS96, HLTA16, HZX20, Jai16, Jai17, JL12, Jay21, JZF+20, JHLL15, KCBT21, KNBGV18, KD14, KMZ18, KLF17, KS20, KS12, KGH14, KADE18, KMV17, KM19, KLO6, KLZV95, KKA17, KK17, KW17, LMM11, LW13, LW16, LR18, LRL19, LHR20, LHZ+21, LILZ21, LM14, LILY17, LW21, jLQyW17, LWS18, LDL+19, LSS15, LRM16, LXP20, LV18, ME92, MVVA08, Mch11, MS06, MCIxzJe16, Mok16, MS13, MWWY13, Muli00, NBK17, NP18, PKR20, Pan18, PG12, PM05, PMM11, PP92, ROB18, RKMS16, RSKB17, RGJ10, RBW09, RS97, SS11a, Sas93, SAE19, ST17, SS10, SGS13, SA14, SQG13, She15, SW15, Sho15, Sho18, SI12, SYLT14, Sti18, SZ20, Sz21, TX19, Ten08, TY21, Ver14, VLCL16, Vul97, WGK11, WKG11, WZ13b, WK13, WZQT15, WHH+18, Wri01, WWM21, XT16, XYZ14, Xu19, YZZL17]. ordering [YLY15, YCW+19, ZCT19, ZE12, ZYW17, ZWFY19, ZP17, ZYX19, ZHFW21, ZXL15, ZG12a, ZG12b, vdHM98]. 

Orderings [GGV02]. orders [DGST15, EGSHV15, van93]. Ordinary [AKKW03, But02c, BH02, DL03, DOS03b, ED05, BJ98, But10, CQLY15, DJ10, DFJP10, Dze15, EG10, JT96, KL17, KMV17, KS06, Mii19, RSKB17, Tem08, Tu08, WCH21, WK93, Wri01]. orientation [CV92]. Oriented [NPP04, CL96b, NK21, OBAHK+19]. Orthogonal [Amo02, BBR03, BD20, BGVH92d, BGVH96b, But96, DFP+10, Dra02, FT02, GR01, LW04, MRS93, MRS07, Rec01, Ron08, APPR14, APFO7,
BMA16, BDJ11, Bec96, BC00, Bia94, BF17, BLS92, BEGG91, BHJTM92, BZ91, BGVHN92a, BGVHN92b, BV95, CGM12, CMR16, CCL16, CJTW96, CBGVN07, DM14, Dra96, DM97, DHM12, DGP15, Erb15, FLT09, FPP05, FMD18, FHV15, Gau90d, Gau13c, Gau15, Gau17b, GCGVH92, Han96, HG93, HZ93, HSL19, LGA+00, LWAG08, LCVL18, LI10, MS92, Mar92, MdR08, MM08a, MdR13, Mill7, MD15, MA95, NO96, Pas08, Ron92b, Sad05, Tou98, VC10, VZ93, Wal06, Wim99, BV96. **Orthogonality** [Van02, BCM10, CIYB12, FGBP21, dR99]. **ORTHOMIN** [AZMJ04]. **orthonormal** [Ca10]. **orthonormalization** [ZD15]. **Oscillating** [SFT03, EO94, NJI3, Sho18, SKTGR19]. **Oscillation** [WWM21, GLLJ12]. **oscillation-free** [GLLJ12]. **Oscillation-preserving** [WWM21]. **oscillator** [CZLS18]. **oscillators** [DS21, MKBY19, YZ17]. **Oscillatory** [ARTY20, BMR19b, FYM14, FR18, HS96, HS15, Kel07, KS20, KHM20, LW13, LW14, Li17, LDW18, LG19, LWS18, Maj13, Maj18, NBIJA17, Pen08, SW19, Vep08, WW14, WWM21, XX16, ZY+14, Zu19, ZYW17, ZH17]. **Oseen** [Far20]. **Ostrowski** [Eft15a, Eft15b, SS10]. **other** [DHS09, GN12, Ka00, SVF94]. **outer** [MGL20]. **outliers** [AL18]. **output** [SAE19]. **overcoming** [DF01]. **overdetermined** [DEM93, Gon16]. **overlapping** [Cal20, Hei06, SB21, ZJ14]. **Overloading** [TRRD02]. **overrelaxation** [HT16, Nie93]. **overspecification** [DS09a]. **overview** [AGRT05, Mon01, RR08, dBGKR08].

**P** [SKTGR19, VV07a, VV07b, FGR01]. **P-stable** [SKTGR19, VV07a, VV07b, FGR01]. **Pack** [FH05, SGK+99]. **Package** [Sha02, CDF99, CFR19, DCM+13, DCM13, DdAF+20, GHN19, Han94, LLZ18]. **Packing** [Mar04b]. **Padé** [VB92, AC003, AH17, BL92, BBPV12, BC00, Bou03, BM96, B199a, BGVHN96a, But96, But02a, CL92, CJTW96, DM97, Dra02, DF01, Ema96, EKM03, GCGVH92, GCCF03, GMT92, GM03, KL94, MC05b, MC05c, Mat96, MN01, PGGC97, PP92, PV99, Sab03, Sab14, TBA94, VV91, Van92, dDL92]. **Padé-based** [DF01]. **Padé-Rayleigh** [Ema96]. **Padé-Type** [AC003, B199a, BGVHN96a, Mat96, PP92, Sab14, Van92]. **Padua** [CDSV11]. **Padua2DM** [CDSV11]. **pair** [DGST15, HJ21, KP96a, RSKB17]. **Pairs** [MV02, Har18, KN21a, KN21b, MPC12, SQG13, ST21, Ver10, Ver14, DK15]. **Pál** [MP08, dBD05]. **Pál-type** [MP08, dBD05]. **palindromic** [GN12, KSW09]. **Panel** [ADL05]. **pantograph** [EED19, GL19, ROB18, YH21]. **paper** [ZW15]. **Para** [BHJTM92, CMR16]. **Para-orthogonal** [BHJTM92, CMR16]. **Parabolic** [BBHM03, LJW17, AA196, AHC13, B1g13, BSF17, CCD10, CJ17, CG19, CJ20, D199a, GPHHAPR18, HK97, HZX20, KMV17, KLL10, LAN18, LS216, Moh10, MN11, RBN14, Ria16, SKP20, TY21, ZS13]. **parabolic-ordinary** [KVM17]. **Parallel** [AC11, B197b, B021, C100, CTS09, CB00, Fab16, GH09c, GHP+00, HHST19, HPS97, HMA16, IM02.
Parallelism [KPT03, vSv94, ST92]. Parallelization [MMW20]. Parameter

PDRG19, SX96, SL15b, SL15a, Van07, WZZ15, ZH17, dBD05, KST21a.

**Pointwise** [LZ18c]. **Poisson** [BQ19, BW15, BM09, JHLL15, KN18, LP12, Lee94, MZ99, MCIXzJc16, MDH16, Prz16, SSYL20, ZW21].

**Poisson-corrupted** [LP12]. **Pol** [CZLS18]. **Polak** [BKG15, YZBJ21]. **Polar** [KZ03, ÁCL11, BW15, HN16].

**pollution** [CV15]. **Pólya** [BG91a]. **Polyak** [BKG15, Wan18, YZBJ21]. **polygon** [FJT94]. **polygonal** [Kar09, KJC18].

**polygons** [FP20, LHW13]. **Polyharmonic** [HL02, RR08, Flo16, KR07]. **Polyhedral** [HV98, Wat92].

**Polylogarithm** [Vep08]. **Polynomial** [AM13, BC14, BFGM03, BCGVS11, CR03b, CPV04, DV01, FM19, FT02, INR01, LWK12, LM12, MC05b, MC05c, Maz12, Ple03, Rec01, VM17, WDY04, ABL...12, BD11+12, BLW09, BNN16, BM00, Ber10, Bin96, BF99a, BF00, BC17, Caq10, Cam19, CJTW96, DF93, DY93, EEM20, FM16, GGN14, GH10, GM92a, GI15, GNS10, GS16a, Her96, HvD93, Hua96, HV98, ICR06, Iva17, JS15, JNW92, KS12, LV15, LW17, Man07, MMV17, MMV19, MS17, MSS18, MK94, MS11, MG91, MG94, PH98, PS06, PM11, PR14, RVF07, SST92, Sid94, SSH20, TS18a, Yun18, YHZ20, ZR17, dB07a].

**polynomial-iteration** [Yan18]. **Polynomials** [Ano05b, BBR03, BL04, BD04b, BV96, CD01, DG05, Des17, Dra02, DJ02, FH04, Gau15, Gau17b, HLM04, LW04, Mas05, Maz02, PG05, Rec01, ALW98, APPR14, All18, ÁFP07, AGD15, ACH14, BDJ11, Bee96, BC00, BD20, BLS92, BEGG91, BHJ19, BZ91, BM96, Brev99a, Bru93, BV95, But96, CG17, CM12, CMR16, CW21b, Cox93, CBGVP09, DFP+10, DM14, DB06, Dra96, DM97, DD99, DL01, DJM08, DJ18, DHM12, DPG15, EDH12, Erb15, FS20, FGM19, FKP06, FPP05, FMD18, FH15, FF00, GL07, Gau08b, Gau09c, Gau09b, Gau09d, Gau11b, Gau12b, Gau13c, Gau18, GN12, GS14, GCG19, Han96, HSL19, IN95, Ise96, JBB17, KCS07, KCS08, KW16, Kou07, LEO07a, LGA+, LWAG08, LL14, LI01, LR14, Man17].

**polynomials** [MS92, Mar92, MdR08, MM08a, MdR13, ME95, MEJS19, Mll17, MD15, MA95, MS11, NO96, Not95, Ost07, PM05, Pet95, PCDH20, QW08, Ron92a, Ron92b, Ron08, SSP15, TTV21, TV19, VC10, Wal06, Wal07, Wim99, Win00, dFG93, DH18, Gau17a, Gau19]. **polytopes** [PT18].

**population** [OKP21]. **Porous** [AA03, CGN03, MSMS12, SLLA15]. **portfolio** [LXP20]. **portrait** [HPS97]. **Posed** [CR02, AC11, BH11, CMRS00b, DNR15, DNR17, FH00, Han96, Han94, HU14, JRS09, Jia20b, Mok16, MRS06, MRS10, NRS12, OR17, Pia99, RRS09, RR13, RSZ20, SG15, WZQ17].

**Position** [Sei98]. **Positive** [All03, ABQ04, GPS01, LEO07a, Str02, YLD11, AR16, AR20, AA16b, AL07, BMA16, CR96b, CLMM05, CWH12, CV15, tFZY16, GMP92, Hag13, Har18, HM18a, HV12, LG17, Liu11, Mas95, NP18, PG15, Str97, Sun94a, Sza92, Tan17, VGV06, XM16, ZM94, Zha15]. **positive-definite** [PG15, XM16, Zha15]. **positive-indefinite** [CWH12]. **Positivity** [Not08]. **positron** [BG11, RVF07]. **Posteriori** [ABMV03, SS03, ASGJ+20, AKPW05, Das19, DBGB11, HCXL20, JL15,
KL17, LCH20, LRM16, LKK21, She15, ZLH21. Postface [Meu19a].

postprocessing [Sar06]. Potential
[LM04, Lui02, Rog95, BX17, EAGS20, Rei98]. potentials [Lam09]. Poussin
[The12, TV17]. Powell [Rip93, WD95, WD96]. Power
[Bou06, Mazo2, SVZ01, GL20, Sab92b]. powering [GI10]. powers
[DM92, GLM15, Sid20a]. PPS [SM21]. PPS-methods [SM21]. PQser
[CFR19]. Practical [BKL10, Len03, SC03a, CY10, Mot14, ZL07]. Prandtl
[CM01]. pre [GV99, Mic91, MRU91]. pre-filtered [GV99]. pre-wavelets
[Mic91, MRU91]. Preassigned [BBD03]. precise [EED19, Wil12].

Precision [Rev03, BBPV12, BGZ20, FLMR99, Gau09d, Gau14,
GS14, Joh15, Joh20, Sv95, Tsi07, WLL12]. Preconditioned
[BBS20, LRGH02, MR96, WZ13a, XYW19, ZZZB20, AAAA+18, AFN6,
AFN17, BBC11, CZ14, CDLW21, EG19, GM20, HY20, HM19b, LZ18b,
Meu99, PW17, PV98, Rah11a, WRTW19, WPL18, ZCG15].

Preconditioner [Meu02, BW13, Che16b, CL21, tFZyZ16, HN94, HW17,
HWXC18, KM17, LM19, LAN18, LC21, MS20b, RR98, SM17, SCW17,
Tan17, XM16, ZD17, ZFG18]. Preconditioners
[LXZZ21, Lin01, LS03b, AL97, ACSD16, BBO21, Cao12, CW21a, CMM17,
CT93, CO94, CX20, DNR17, FNS19, FC01, HW18, Huc92, L21, L29a,
L29b, LN10, LW12, MMGH17, NMM18, ZRZ11, vdmRS06]. Preconditioning
[GP99, MT18, MS02, SC03a, SMB02, ABG97, AK09, BCW13, BRY14, BM12,
GV00, HPS20, JCF15, JMO0, LP20, Mor17, ST18, TA13]. predator [GA20].

Prediction [PV03, MBG19, PV99]. prediction-correction-based
[MBG19]. Predictor
[IW04, Bra06, DZW17, Khe14, MJH17, SMZMA18, SD20, WO00, YZLP16].

predictor-corrector [SMZMA18]. Preface [Ano98e, Ano99f, Ano00b,
Ano01h, Ano02d, Ano06c, Ano05c, BCN06, BJ9+19, BSSJ14, But02b,
BJPW10, CP00a, DEV97, DZZV07, MY04, Meu19b, The97, RZ99a].

pre-filtering [PZL15], prefilters [Ehr97]. Prescribed
[CG03, AN1+17, CM92, Gre96, PP92, Van07]. Prescribing [TM14, Meu20].
presence [ART19, BRZ18, Gau12a, Gau13a, MZ99]. Presentation
[Kub15, BZ91]. Preservation [MO10, DS21]. preserve [CL96a]. Preserving
[CP01b, LM01, BHLZ21, BH17, Bla15, BV21, BB14b, CMWP20, Ell93,
Guo16, IJ19, KK00, KBGVV18, LN95, LG19, WVM21, YZZL17, ZLT91].
presence [HLS10, PV00]. pressure-release [HLS10]. prewavelet [HP18a].
prewavelet-based [HP18a]. prey [GA20]. price [CLLi16]. pricing
[CL10a, CDMW21, CS12, KMM17]. Primal [Khe12a, Alt21, BC16, CWZ13,
CC06, CL19, DGL06, MBG19, SMZMA18, WZ11]. Primal-dual
[Khe12a, BC16, CWZ13, CL19, DGL06, MBG19, SMZMA18, WZ11].

primary [GI10]. primitive [PM05]. principal [CG07a, HNY+18].

principle [BD17b, LKE21, She00]. principles [PZ90]. priori
[LKK21, SKP20, ZA20]. Probabilistic [Stu97]. probability [LD20].

Problem
[ABMV03, BBHM03, Bog02, CGN03, CSFC04, CN01, LV01, Mar04a, SR04,
SME03, AMM11, ALV20, ADA07, ACE99, ARSS19, BAV18, BEM99, BVV14, BBCS21, BH92a, Bia12, BFKM20, BGVHN92c, Buo17, BGZ20, CMD19, CEX14, CLGS17, CCL18, CC18, Cor91, CKM19, CL13b, CRV91, CHKN14, DLL13, zDYG18, DD20, DS09a, Den14b, DWX17, Don16, DJG18, DLDW21, EL 18, ER19, FAMA20, Far20, GD15a, GHC15, GWH18, GPGC98, GD15b, GO06, HT16, HT21, HJB18, HZ95, HFZ19, HNY+18, HM19b, IJSS16, IUM+19, JHLL15, JM00, JN99, JRRS08, KAF18a, KAF18b, KPCC20, Khe14, Khe16, KMA13, KS18b, KPA20, KLZV95, Kun05, LMV00, LLZ94, LLS11, LY18, LL20b, LCL21, LG95, LXP20, MWS19, MM00, MM19, Med10, MT93, MK17, ML10, NPR08, OMW21, OR17, PKC18, PL99, Pan20, Rad08].

problem [RS06, RZ16, RT20, Ria16, RS93, RFV07, SCD+21, SR16, She15, SMNZ20, SW07, SG10, Str09, SC18, TAM21, Tak17, THT19, Val97, Wan17, Wan18, Wit96, WK20, XHZ07, Xue95, YZL20, YPL21, YZ11, YLY12, ZE12, ZM94, ZW12a, ZW14, ZZH15, ZYGQi17, ZZ19, Zha19, ZZJ20, ZZZ20, ZLH21, ZWX19, ZW20, ZY13b, ZW15, ZZ18, Zhu15, ZD18, CGR12].

Problems [AKW02, AKKW03, BD02, Bel03, BCV03, CR02, EGSV04, FG03a, FG03b, GC04, HSZ03, Koo04a, LS03b, MT04, Nac03, The07, PV03, SK04, TC05, Tsu02, WYS04, ALQ17, AAA+18, AS10, AR13, AHCO5, AMCM06, ACL11, ABL…12, AE09, ABI20, ALZ20, AJMP11, AAH18, Anh19, AT21, AA12b, AM18, AM13, AKHW05, AKPW05, AK09, AFN16, AFN17, Bac18, Bac20, Bac21, BBS20, BM97, BD06, BZ13, BS17, BLW09, BBBC20, BD17a, BCK06, BGRS09, BGRS12, BF16, BH11, BP13, BPK11, BM97, Bia15, Bog13, BC16, BRS09, BE98, BS14, BMR19b, CSI16, CSI17, CSI18, CR99, CMRS00b, Cal20, CB16, CW19a, CW21a, CZ94, CZ95, CZ14, CC15, CR20, CW14, CLW15, CD15, CM16, CFS19, CGY20, CRN19, CCJ99, Cho17, Cho16, CW17, CL93, CGL99, CJ17, CVX16].

problems [CDS20, Cro92, DLL12b, DLL12a, DG17, DMA19, DBH21, DC17, Den14a, DHF21, DEM94, DAE09, Don10, DBG11, DWY16, Di11, DLL17, DSS14, DR12, DNR15, EDAH12, EE18, EH97b, EP97, EM07, ETY98, Fab16, Fan15, tFZY16, FYYW19, FG07, For93, FR18, FH00, GEP14, GEP16, GEPR9, GH19, GX19, Gha16, Gha18, Ghe13, GH09c, GS16b, GPHHAPR18, Van12, GL15, GRT97, HS20, Han96, Han94, HR14, HVNT17, HMA16, Hie18, Hie19, HKPW19, Hua96, HLZ14, HWXC17, HWXC18, HRY19, HWXC19, Hua20, He92, IDS16, IS17, JKM18, JL12, JRS09, JR20, Jia20b, JK91, J6a93, JM18b, KW00, KST06, Kar10, Kar13, Kar15, KJC18, KLT95, KM17, KMZ18, Ke21, KS20, KS12, KD18, KMS05, KSW09, KK12, KK17, LP18, L97, LWM10, LHZ10, LZ14, LL6].

problems [LY17, LD17, LM17a, Lii17, LWZ18, LL20a, LZ120, LHY+20, LLX20, LLL21, LJ11, LZ15, LAN18, LZ18b, LDC10, LS15b, LCH20, LXX12, Lin05, LRZ12, LHL11, jLYqWi17, LW17, LWS18, LZ18c, LRM16, LKK21, LPXX19, MS20a, MsC20, MSB93, MN17, MK98, MMV19, MRMG17, MHR3, MRS93, MO19, MB06, MZW20, MG20, MG21, Mia19, Mil20, Mil18, MS20b, MS14b, MN08, MSS11, Muo20, MRS06, MRS10, MPB16, MG18, MN11, NM14, NBJA17, NRS12, NJ13, NMM18, NV21, Nie93, NEMS14, NK21, NR12, OQ12,
problems
[SHLY18, SW19, SS15, Si12, ST21, ST99, SDMMK18, SJ14, SG17, SG18, SXH20, Stu97, SS94, TS18a, THF21, TO21, TG20, TYSY20, TBY13, Thi93, TH18a, TH18b, TH19a, TH19b, TVC20, TTD20, TDC21, Tom11, Van07, VT10, VN18, VS19, WZ13a, WJW14, WDL16, WZQ17, WCW20, Wat93, WCM94, WZS14, WPL18, XM16, XXW17, XPZ19, YWWR12, YDNL15, YH21, YDSY19, Zha09, ZA20, ZRZ11, Zha11, Zha15, ZZY18, ZFC18, ZI19, ZLV17, ZV19, ZV21, ZS08, ZLWQ09, ZLCL11, vsYv94, vdHM08]. procedure
[ABT07, HS96, RZ16, Shi96, ZD15, ZYGQ17]. Procedures
[Bre02, DPLL04, AG13, Bre00a, CP93, CP95b]. Procedures
[BM09, GKL21, HR07, SKSS21]. processing [BKPS93, BH11, FM99, OB16]. Product
[BG03a, GGV02, ACM09, BH01, CE94, CK20, DGP15, FT05b, HPS13, Jia06, LN10, MS15, OB16, Rab05, SP21, YH21]. Products
[DL01, Str93, CL99, HL15a, MMV19, Ron92b, Str97, TK94, YHZ20]. program [Góm99, KLZV95]. Programmable [LLQ17]. Programming
[Dos03a, GC04, IW04, Zil01, dSCS04, BBO21, DGL06, FM93, GWW15, GZ11, HBP13, JYLC21, KS18b, LWM10, LDC10, Lin16, LPXX21, SPV20, TO21, WOO0, YYL15, YZLP16, Yan17, Yan18, ZM94]. Programs
[Góm01, WZZ15]. project [Ano17, KM13]. Progressive [NL97]. projected [AJMP11, ABM10, BHS14, BH17, Jón93, JRRS08, LP08, LHL11, MRS06, YSSX19]. project [AJMP11]. Projection
[BZ02, DHLF21, EGTV04, AAB13, AK15, AK15, AHD8, AV19, ATT21, AT21, BRZ18, BEHS20, zDYG18, DEM93, DLYH17, GBWC20, GPSC98, GP99, HHT19, HT19, Jh03, KR20, LP12, LP13, LCVL18, LC19, LH20b, MT12, MRS07, MV09, ODL21, PP16, PP17, PCDH20, SL20, SLT20, SXH20, THF21, TVC20, THT19, WZZ16]. projection-based [AK15]. projection-type [SL20]. projection/Lagrange [SL20]. Projections
[BCN16, CE09, CCL16, HR05, HS16, SEG14, SEt98, Szy06]. projectivities [GM92a, MG91, MG94]. projector [SL16, SL18]. projector-based [SL18]. project [SHF15]. proof [Eft15a, Eft15b, Fue07, GQ09]. proofs
[Bar13, BO03, BG03a, BL18, BJ04, GL12, GC04, IMTO2, Mas05, RB21, VL19, AHJ17, ÁFP07, BRZ18, Be98, BGVHN2a, CHY98, CMP21, DHM12, GTA19, HSL19, Jia02, KM09, LWS18, Mat02, MAK20, NW17, Oar94, Svv94, SS14, YWX14, ZW12b]. property [BE20, Flo16, KM13, LWQR15, MP92]. proportional [MMLM20]. Proportioning [Dos03a]. Proposal [DHL104]. protein [MB09]. Proving
[Pop21]. Proximal [HSS04, IUM19, PKC18, SKK21, AAA18, CWHL20,
DEM94, Ma20, PLH20, SBJC19, TYSY20. Proximal-type [IUM+19].
proximity [PH14]. Prune [VR04]. Pseudo [PTSB01, TC05, FHL21,
LDW18, LZIL20, LQ20, Mar96, TTD20, TSI20, ZHT15]. pseudo-function
[Mar96]. pseudo-geodesic [PTSB01]. Pseudo-geodesics [PTSB01].
pseudo-monotone [LQ20, TTD20, TSI20]. Pseudo-Spectral
[TC05, LZIL20, ZHT15]. pseudocontractive [GMZ19, LCL21].
pseudomonotone [Anh19, ATT21, HMA16, JM18b, PT17]. pseudomontone
[Hie18]. pseudoparabolic [LZ09]. Pseudospectra
[LS03a]. Pseudospectral
[BBD03, Ghe15, HLS10, Don13, JVV15, RS97, Sar06]. PSS
[HWXC17, LZ18b, SCW17]. PT [AMM11]. PT-symmetric [AMM11].
publications [All08b]. Publisher [Ano00c]. Puiseux [WGZ18b]. pulse
[Roh07, WXQ20]. purpose [FH05]. pursuit [HNY+18, LLLD17]. put
[CL10a]. pyramid [WQ10]. pyramid-typed [WQ10].
QD [Van03]. QDR [APST21]. QL [HC03]. QN [GWL18, LL20a].
QN-matrices [GWL18]. QR [DG94, KSW09]. Quadratic
[CCD10, Dos03a, FKMS01, Gom01, MS92, ZE12, AABM08, ASS13, BFKM20,
Bla15, Bog13, C12, DL12, DGO16, Gs94, Gm09, GS16b, HLC15,
IJS16, KKM20, Le 92, LWM10, LDC10, LRL12, Lin21, Pan20, WZ11, Zal17].
quadratic-cubic [Lin21]. Quadratically [Rec01, KSB08, SC10].
quadratization [LL20c]. Quadrature
[BPR20, CR03a, CvPS15, GST02, GST03, KP03, SS01a, WL00, dABR01,
AHR21, AR18, BD10, BM07, B18b, BHS17, BG13, BGVHN92d,
BGVHN96a, BC09, BS18, CAm95, CC12, Che99, CH11, CD07, CBGVN70,
DFS18, FG07, FMD18, GM66, Gau10, Gau13a, Gau14, GS95, Hac13,
HNN07, HNS1, HL15a, Kza97, Laut07, LM97, Leo07a, LH13, Mas95,
MM80b, MM09a, MV17, MT13, MT14, Mon01, Not95, Not08, Not12,
OdZdR13, SS01b, TS18b, ZYLN18, dC20, CIP10]. quadrature-based
[MT13, MT14]. quadratures [MI95, MI17, MSS11, PC14]. quadrilaterals
[Kee94]. Qualifying [BD04b]. quality [Bra96, NZ19]. Quantification
[MZH03, KBCG13]. Quantitative [BG03a]. quantum [FGL19, Kar07].
quartic [Kim21, MS96, QZG19]. Quasi
[AL18, BMR19a, BKM03, BC17, Bre03a, IMT02, LI10, NSS03, PL04, ASS11,
ASS13, And19b, BDIR18, BD20, Cho16, CZLS18, DDS93, DHB121, Den14b,
GZ18, GMZ19, GO20, HSS13, JKM18, LEC1, LCL21, MWsC19, Maz11b,
MK17, Ngu16, Orb15, PKC18, RB21, RZ16, SK21, SWG20, SC18, UL18,
WRM17, WZZ15, YSLH19, ZD15, ZZB20, BKL10]. Quasi-
[LI10, LCL21, MWsC19]. Quasi-analytical [BC17]. quasi-asymptotically
[Den14b, GMZ19]. quasi-boundary [YSLH19]. quasi-Bregman [Ngu16].
quasi-Chebyshev [WRM17]. quasi-compact [ZB20]. quasi-definite
[Orb15]. Quasi-Eigenvalues [IMT02]. quasi-interpolant [ASS13, RB21].
Quasi-Interpolants [SS03, ASS11]. quasi-interpolating [DDS93].
Quasi-interpolation [AI18, BDIR18, GZ18, SWG20, UL18]. quasi-linear
[MK17]. quasi-minimal [ZD15]. Quasi-Newton
[BKM03, Bre03a, PL04, And19b, DBH21, GO20, JKM18, LEK21].

quasi-nonexpansive [PKC18, RZ16, SKK21]. quasi-orthogonal [BD20].

quasi-periodic [CZLS18]. Quasi-Toeplitz [BMR19a]. quasi-variational
[SC18, WZZ15]. quasi-conformal [DM98a]. Quasilinear
[Ben97, KK16, Lie00]. quasilinearization [MS13]. Quasipower [Pas95].

quasi-separable [DP18, EG08, Hua18]. Quasivector [Mar04c].

quasi-orthogonal [BD20].
quasi-periodic [CZLS18].

quasiconformal [DM98a].
quasilinearization [MS13].
quasipower [Pas95].
quasiseparable [DP18, EGG08, Hua18].
quasivector [Mar04c].

quaternion [BC05a, JNS19]. questions [Lin98].

dequeue [BM97]. quicker [LM15, LS16].

Quintic [FKMS01, XL14, KS12]. Quotient [AC94a, AL09].

Quotient-difference [AC94a].

Rabinowitz [Gau95]. Rachford [AG19, AG19, BCN+16, BCS18].

Radau [CX20, Gau09a, Lau07, MVVA08]. Radial
[CYB12, Ave20, Bro05, CLMM05, DS09b, GZ20, HV15, LM00, Low05,
Nar05b, Pea13, SKTGR19, WZ15b, XLC93, ZJ08, ZLL17]. radiation
[NZF11, YHQ19]. radius [CB13, KE16, Uhl09, ZCS14]. Radii [DR04].

Raising [BC05b, WALd20]. random
[AK16, DPP19, FS20, Gor18, LWZ18, LM17b, Mil20, WCHK21].

randomized [EN11, Jia20b]. randomly [CM05]. Range
[WH04, Gau12b, Gor18, HS96, NRS12, SBW98, Ska13, Zah09, Gau17a, Gau19].

Rank [GSA03, OL94, WS04, APST21, AH11c, BKS13, BHS14, BEHS20,
BH92b, BG13, CMM17, Dax17, DLC14, EGG08, FH97, FHH99, FH05, HG93,
IDAV09, KKM20, LLL18, LHZ+21, Sid94, Sid20b, TS92, TM10, VZ93, Zhu15].

Rank- [OL94, IDAV09]. rank-one [TS92]. rank-revealing
[BH92b, FHH99, FH05, VZ93]. RankRev [LL18]. Raphson [Par16, Ste20].

Rapidly [HK17, AG00, GLRSG08, GL13]. Rate
[BCN+16, AC19, Gor18, JLP20, Pop18a, Pop19, SS98, SBJ19].

Rate [ART14]. Rational [Abo92, BBD03, BM00, CGV92, Car92, CCV07, Col92,
Dar99, GV99, Gre96, GHPA92, KLT03, Mac96, Reb97, SS11b, Wen03,
AC94b, Bal11, BC92, Ber00, BJHT09, BGVH92a, BGVH92b,
BVGH92c, BGVH92d, BGVH96b, BC09, CM92, CH95, C991, CV92,
CUy00, CY10, EK94, FWC16, FG07, Le 19, FJT94, GGV96, Gen97, Gen12,
Gla01, GCPG99, Gug96, IT93, LZRJ92, LV15, LKJW12, KLMW17, MCXM20,
NCC11, PGGC97, Pac14, Rob92, STS92, Sch17, She00, TF00, VB92, Van07,
VC92, Ver99, WQ10, XL12, YD09, c16a, d16b]. rationals [DN94].

Raviart [LS20]. Rayleigh [AL09, Ema96, IDS16, RR98]. RBF
[FZ07, HSZ03, KJC18, SW00]. Reaction [Sch02, BS17, BF20, CLT+13,
CG19, CJ20, GM06, GK20, KMS05, LZIL20, LS15b, LN09, LRZ12,
Moo07, NMM18, Smi97, VT10, YJX15, ZYX19, dFO11]. reaction-diffusion
[BK20, CJ20, LS15b, LN09, LRZ12, Moo07, VT10]. reaction-subdiffusion
[CLT+13, LZIL20, YJX15]. Reactions [KV04, Hol98, SMK14]. reactive
[VSA12]. Real [CD01, GKS04, M101, ZS03, AHR21, BDH+13, Car95,
CBGVP09, DY93, JZ16, MLM19, NP18, DCM+13, DCM+13]. Real-Time
[BCN⁺¹⁶, zDYG₁₈, tFZY₁₆, KM₁₇, SCD⁺²¹, SM₁₇, WK₁₅, WK₁₇].
release [HLS₁⁰]. reliability [EY₁₀]. reliability/cost [EY₁₀]. Reliable [Cox₉₃, CCK₀₄, Mar₀⁴b, MP₀₂, dADdRC₀⁴, BC₉₂, EM₀⁷, HA₁₆].
Remarks [ACF₀⁹, Dum₀₃, Osw₀₁, CC₀⁷, Lₑ₉₈, Maz₀⁹b, ZW₁₅].
Reminiscences [Ano₀⁰d, Brc₁₉]. removal [AL₁₈, CH₉₉, JHLL₁₅, WHZ⁺¹₈]. Repeated [Cia₉₄, Gau₁₃c].
representation [BC₉₇, MP₀₇, Med₁₀, OB₁₆, TO₂₁, TD₀⁹, YD₀⁹].
Representations [APST₂¹, Mat₀⁴, AC₉₄b, Ber₀⁰, IN₉₅, MM₁₂].
Representing [Sza₀₃, CDF₉₉]. reproducing [AR₁₃, BAV₁₈, LZ₀⁹, LRM₁₆, Tan₂₀, TA₉₆]. repulsive [OKP₂₁].
Requirements [Sha₀²]. Rescale [MH₀₈]. Rescaling [DNR₁₅]. research [Ben₉₉a, Lev₀⁵, PH₂₀].
Residual [GR₀₁, Rob₀², AM₀₁, DBGB₁₁, GS₁₆b, MT₁₅, Sad₀⁵, TM₂₀, ZD₁₅, Zha₂₀, ZYW₂₁]. residuals [CKM₁₉]. resistance [ZZZ₂₂₀]. resolution [BC₀⁵₅, Tu₀₉₈]. resolved [MvS₀⁹]. resolvents [Tak₁₇].
Restoration [SST₀₈, FGBP₂₁, LP₁₃, NR₁₄]. restrained [QLZX₁₁]. restricted [AG₁₇, LY₁₇, NRS₁₂, SBW₉₈]. restriction [ADL₀₅]. result [AG₀₀, Che₁₆a, SI₁₇, YL₁₉]. resulting [FJT₉₄]. Results [VIG₀⁴, BBC₂₁, BRZ₂₀, CSI₁₈, DD₂₀, DEM₉₄, LRT₁₉, Lin₁₆, Lu₁₅, Mat₉₁, RR₀₈, SI₁₃, Smo₉₉, VC₉₂]. resurgent [FT₀₅₅]. Retarded [AR₉₉].
Retraction [JM₁₈b]. Reusing [GΙ₅]. revealing [BH₉₂b, FH₉⁷, FΗH₉₉, FH₀⁵, VZ₀₉₃]. reversible [BL₉₈]. Review [De₀₂, Kuh₁₃, MP₀₇]. Reviews [Ano₀¹f, Ano₀₁g, Ano₀²c, Ano₀₃a, Ano₀₄b, Ano₀₆, Bre₉₆, Bre₀₃b, Ano₉₅a, Ano₉₇, Ano₉₈a, Ano₉₉b, Ano₉₈c, Ano₉₉a, Ano₉₉b, Ano₉₉c, Ano₉₉d, Ano₀₀a, Ano₀₁c, Ano₀₁d, Ano₀₁e, Ano₀₅a, Bre₉₇b, Bre₉₇a, Bre₉₇c, Bre₉₇d, Bre₀⁰b, Bre₀⁰b]. Revisiting [So₁₁].
Revisited [VGΚ₀⁴, BDS₀₀, Bίν₁₈, Cho₁₇, Dra₉₆]. Revisiting [Gut₁₅].
Rigorous [Dзе₁₅, Jh₀₁₅]. rise [CGM₉₃]. Ritz [Em₉₆, IDS₁₆, MT₁₉, RR₉₈, TM₂₀]. RK [BH₀₅]. RKN [LDW₁₈, LWS₁₈, VV₁₉, ZYZ⁺¹₄]. RKN-type [LWS₁₈]. RMVPIA [EEM₂₀]. Robust [BE₁⁷, KN₁₈, LZ₁₉a, SKJ⁺₁₈, YYD₁₄, BDΝ₁⁷, CL₁₀a, Cou₁₅a, Cou₁₅b, KP₁₆, KK₁₂, LN₁₈, LP₂₀, LLC₂₀, YQM₁₆, dFO₁₁].
Rogers [HLM₀₄]. role [MT₁₅]. Romberg [JC₀₄, dC₂₀]. Root
[MS01b, BCMT18, BHM05, BC17, GL20, Hig97, Kol06, LK20, PR14, PH20, WK17, ZXR11]. root-finding [BC17, PR14, PH20, WK17]. rooted [ZYW17]. rooted-tree [ZYW17]. rootfinder [BF00]. rootfinding [LC14]. Roots [Rec01, BCM16, BDS00, Cam19, CL11, CN17, DY93, FS20, GH10, Gar19, G110, GHPMGR14, LMMH11, MLM19, RG10, SS12a, SSH20, TTV21, ZCT19, ZCS14, dS00, dDS00]. rotated [LM19, SST08]. rotation [PPV09]. Rothe [MZ19]. rough [Bro05, HLS10]. round [AMM17, KL17]. round-off [AMM17, KL17]. Rounding [GL04, dC20]. Roundoff [Ihs07]. routines [Gau10, OOOR12]. row [AH14]. row-action [AH14]. rows [ST18, Sid94]. RPIA [MS17]. Rule [BD04b, Boy05, BD10, BHNS16, BC92, Bou17, CC12, For21, TB19]. Rule-of-Thumb [Boy05]. ruled [WZZ07a, WZZ07b]. Rules [GST03, INR01, dABR01, AHR21, AC94a, AR18, BDL+12, BLS92, BPR20, CS18, DK00, FMD18, Gau14, GPGV92, GS95, HKN12, MFP07, Mon01, RR13, T18b, VPL97, WL00, Zeg92]. runaway [SSH+19a]. Runge [KM19, AMCM06, AH15, AMM17, AMM18, BJ98, BS14, BB14b, BD98, BC99, B104, CGPM00, CMR03, CT10, Che14, CQLY15, Che16b, Con93, CD14, DJ10, EH97a, FYM14, FYYW19, FHL21, JT96, Jat15, Kha14, Li17, LG19, LT20, ME92, MV02, MC08, MKS18, MHA16, PFT98, SGA13, ST21, TX19, Tir02, TCW14, Tsi07, TÖ17, VH12, VV11, Ver10, Ver14, WG13, Wri02, XT16, vSv94].

S [Ano00d, GLRSG08, RS20, LL20a]. S-QN [LL20a]. S.S.O.R. [MS02, SMB02]. Sabin [Rip93, WD95, WD96]. Saddle [LS03b, WSY04, BBS20, CZ14, CC15, CM16, DYW16, tFZY16, HT21, HWXC17, HMI8c, HWXC18, HWXC19, HM19b, Hua20, KM17, KKO17, LM17a, LZ15, LZ18b, LZ221, SM17, SWC17, WZ13a, WDL16, XM16, YD威尔15, ZRZ11]. saddle-point [DYW16, HT21, LZ15, LZ221, YD威尔15, ZRZ11]. Safe [PH98]. Safouhi [SS14]. Sahalia [ZWW21]. Sahalia-type [ZWW21]. sample [DWX17, JR20, KJ15]. sampled [BW93]. sampled-data [BW93]. sampling [Ash16, AAA17, Ash19, AP21, Gor18, Kow00, LX17, Man07, Tam10, UTC07]. Sandro [BT14]. Sard [Ehr97, HSM11]. Sard-optimal [Ehr97]. satisfactory [DGST15]. satisfying [Bag16, CG09]. SB [DLL12b, DLL12a]. SB-matrices [DLL12b, DLL12a]. scalar [CZ20, Kac18, LMUZ19, PGGCGF11, X16]. Scale [Boy05, GSA03, Hea10, AAB13, AN17, AKB15, AG00, BLW09, CC13, DS20, GHN19, Guo16, HJ18a, HRY19, JNS19, KW00, LA17, LWWCL13, LZ21, FLX12, LL18, MD12, RRS09, RR98, RR00, Rog95, Sti18, WCL16, YCL17, Zha20, ZW20]. Scaled [DMA19, KZ03, LZ21, And18a, BKA19, BE20, CL21, ODL21, ZLWQ09].

Scaling [GPP01b, LG04, Ari98, BK16a, LZ18a, VGV06]. scan [BKPS93]. scatter [HHLS21]. Scattered [Rip93, AF94, Bro05, CF96, CK05, CDD13, CM05, G197, Hot05, ILO5, LW20, Nar05b, Sch08, WD96]. scattered-data [Nar05b]. Scattering [ZKD02, ZKD04, BE98, GH06, GH09a, HLS10].
Schemes [AKW02, ABQ04, CC03, MM04, ADG10, AABM08, ABT07, ALRT16, ARTY20, AMM17, AMM18, AK16, AH18, BCST14, BF18, BC01a, CF05, CCS05, CLTA0, CG19, Cui13, DL08, DK00, DXY18, hGzS17, Haj16b, HHHN07, HTVY13, KP96b, KM19, Kun05, LR18, ILIVZ17, LZW20, LW21, LLS19, Lu19, MPS20, Met19, PS17, ST17, Sti18, TS15, ZJWF18, dC20, iV12]. Schmidt [CFM15, Sal05]. Schmidt-like [Sal05]. 
Scholes [Val14, Val15]. 
Schröder [CFM15, Sal05]. 
Schröder-like [SSH20]. 
Schroder [GL20, SSH19b, SSH20]. 
Schroder-like [SSH20]. 
Schroder’s [PP18]. 
Schrodinger [Val14, Val15]. 
Schur [Cao12, GI10, TA13, ZS08]. Schwarz [CZ95, BLS19, Cal20, CTS09, CG13, DL09, GD15a, GL15, Hei06, LS14, Lui02, Rah11a, ST09, SME03, ZJ14]. science [Ste20]. scientific [CR00, Che94, YZ17]. SCLCPs [SD20]. SDE [AH15]. SDEs [HH11, HY21, VH12]. SDFEM [LZ18c]. SDIRKN [FGR01]. SDO [Khe12b, WZ11]. Search [GPP01a, LPV03, AAN14, AK15, BKR18, DW12, Deh20, GZ11, HWC15, KJ15, LZ18a, LLL18, Liu11, LM13, MS11, SD20, SW11, SM10, TH19a, WZ16]. searches [GS21]. seawater [SMNZ20]. Secant [AH12, KGMH21, SXH20, And10, Arg10, Ari98, Zha20, AR09]. secant-like [Arg10]. Secant-type [AH12, KGMH21]. Second [BH05, Fun01, MHA16, The97, OI14, PW04, Si12, ST03, Xu19, AK12, AM16, Arn97, AAD14, BK13, Bra07, BV09, CE14, CW14, CQ15, CC18, CKKT16, VV07a, VV07b, DB06, DK00, EGSHV15, HH11, HP18a, Hea10, HSTW14, Hun95, IR13, JL12, KZ18, KS20, KK17, LW13, LW16, LR18, LHR20, LHZ+12, LiLZ21, jLvLyW17, LW18, LDL+19, LXP20, LV18, ML20, ME95, Mic93, MWWY13, Pan18, PP18, RSMS16, SW19, Sh18, SYLT14, SZ20, SzS21, WX19, WK16, WHZ+18, WWW21, XYZ24, YYY15, YYY+14, ZP17, XZLF15, vH198]. second-derivative [CKKT16]. Second-Order [Fun01, Xu19, CQ15, VV07a, VV07b, DB06, HP18a, KZ18, KS20, LW13, LW16, LR18, LHR20, LHZ+12, LiLZ21, LWS18, LDL+19, LXP20, LV18, MWWY13, Pan18, SW19, Sh18, SYLT14, SZ20, SzS21, WHZ+18, WWW21, XYZ24, YYY15, YYY+14, ZP17, vH198]. seepage [CW17]. Segel [KKW00]. Segmentation [GLV05, dADRC04, FLG08, GLRSG08, LAG05, RC14, SMA99, XD17]. segments [CCV07]. Seidel [RWTM21]. SEIR [ALB+18]. Selected [MIL13]. selecting [OOO11]. Selection [CVA01, Cse04, MT04, ABT07, BG11,
CPZ14, Kac18, Len93, LXP20, Moo07, SS21, WCM94]. selections [HWC919]. Selective [HT19, RC14]. Self [AV19, Bno21, CHY19, HK14, LG95, TG20, TA13, TN10, ZH19, ZW15]. Self-adaptive [AV19, Bno21, CHY19, TG20, ZH19, ZW15], self-adjoint [LG95]. self-consistent [HK14]. self-referred [TN10]. Semi [LW04, LZ15, LZ18b, LDC10, SS03, CC15, CL13a, CLWH20, Cro92, tFZyZ16, FM93, Van12, HDP18, KH11, KR07, LPXX19, MAj13, MM08a, MFK+15, MS12, SS12b, SH21, TO21, TB19, YWX14, Zah09, ZZ19]. semi-analytical [MFK+15]. Semi-Classical [LW04]. Semi-convergence [LZ15, LZ18b, CC15, CL13a, YWX14]. Semi-definite [LDC10, tFZyZ16]. semi-finite [MAj13]. semi-implicit [TB19]. semi-infinite [Cro92, FM93, KH11, LPXX19, SS12b, SH21, TO21, Zah09]. Semi-Lagrangian [SS03]. semi-linear [CLWH20, Van12, HDP18, ZZ19]. semi-porous [MS12]. semi-regular [KR07]. semiclassical [AKKT16]. semicoarsening [PV00]. semiconductor [NAR05a]. semidefinite [HBP13, Ke21, Kheel2a, LIn16, MR09]. semilinear [CJ20, HZX20, KLL10, LSW16, Vui97, VTI0, WW19, XH20, YZ11]. Semilocal [CWL16, HVM17, HM14, Jai16, WGK11, WKG11, WK12, WK3, VK16, VK17, ZG12b, HVM15, Hua94, Iva17, ZG12a, Jai17]. seminorm [Zha95]. seminorms [HS12]. Semiseparable [FG30a, MVV5a, VGV06]. semismooth [SR06, SZX11]. sense [CSI17, Dax99, HMS11, Leli15, TS18b]. sensing [SIO20]. sensitivities [CE17]. Sensitivity [Kow00, MW98, Hua18]. Separable [FLMR00, MM12, SY20, SXH20]. separated [BD17]. separating [AK15, CL10a]. separation [ZS19]. September [BV96]. sequence [BDJ11, Ben97, BS92, CHHL18, DM92, GM96, Hom94, Hom98a, MdR08, Mial9, SS12b, Wen92]. Sequences [CP01a, AH13, AG13, BD20, BHJTM92, Chik20, CL13b, Don12, EHTSM21, LM08, LM12, Ngu16, Osa92a, Osa92b, PP06, Sab91, Sab92a, Sid20a, Sza92]. sequential [CM16]. seriation [CFR919]. Series [Boy05, Bre04, FHAL15, LFW04, Mas05, Maz02, Miul00, NK904, SVZ01, BBM08, Bou06, But19, CGV92, Cha14, CW08, Esp05, GL20, HGVP92, Hom92, Hom98a, LG9+00, Mil95, Mor11, NW17, Now19, Pas95, Pas08, Piy98, Sah92b, Sid07, TBA94, VGM96, Vep08, VISA12, dDL92]. Set [BL04, Gom01, AHL20, ABM10, AH08, Gom99, GLV05, KD18, LAG05, Nor00, PCDH20, Pop15, Pop18b, San19, SSH19b, TS18b]. set-valued [AH08]. Sets [FH04, KLT03, MKO04, ASW06, Buo17, BF93, Cacl0, CG09, CDD13, dYDG18, DMD16, FHH05, GGN14, GVJ17, Kol06, Mar92, PLe12, Tan20, Wan18, dBo07a]. setting [HL06]. seven [Kim21]. seven-direction [Kim21]. Seventh [WZQT15, NBK17, SA14, WZ13b]. Seventh-order [WZQT15, NBK17, WZ13b]. several [APPR14, AT17, Chen13, DFP+10, DGP15, Gal18, ZW FY19]. shadowing [CKP97]. Shallow [vdHS02, PS20]. Shanks [BRZ19]. Shannon [Tam10]. Shape [BG91a, CP01b, LM01, EII93, FZ07, KK00, LMM97, ZS19].
CG19, CJ20, CVX16, Das19, EA12, GO06, HCXL20, KS20, KK12, KK16, KK17, LS15b, Lin09, LRZ12, LLC20, MN11, NMM18, NV21, OQ12, Rad08, RS20, RBN14, ST99, Tem08]. Sites [KV04]. Sivashinsky [MK17]. six [KS20, Poc14]. six-step [KS20]. sixth [CHMT10a, He16, KCBT21, KL06, MClXzJe16, RWB09, WKG11, ZG12b]. sixth-order [He16, KCBT21, KL06, RWB09, WKG11, ZG12b]. Size [CVA01, ASHF21, CMR93, CO19, FEL15, JR20, KJ15, KS06, KLR07, Lc18, Ma20, Mal21, PRV120, TG20, VH10]. sizes [MJ20]. sketching [RN21]. skew [BCW13, Don10, tFZyZ16, GV00, HM18b, PG15, WL17, XHZ07, XM16]. skew-Hamiltonian [BCW13, XHZ07]. skew-Hermitian [tFZyZ16, PG15, WL17, XM16]. skew-symmetric [Don10, GV00]. Skewsymmetric [HR03a]. Slevinsky [SS14]. slicing [CR12]. sliding [GGN18]. slightly [LCW20]. slowly [Sab92a]. Smale [MA15]. Small [DXW17, FLT09, PW16, VH12, VGO6]. Smith [GSA03, LwWc13, MK94, MK97]. Smoluchowski [Str05]. Smolyak [Ga05, Pe01, PW04]. smooth [BDH+13, DLR12, Lam09, LLS11, MMLM20, Smi06, SC18, Wan19, YL16, ZA20]. Smoothing [CR14, DXY18, WD96, BL93, BL95, BP93, FY19, HLC15, MRS93, SG18]. Smoothing [CR14, DXY18, WD96, BL93, BL95, BP93, FY19, HLC15, MRS93, SG18]. Smot [RZ12]. Sobolev [ADA07, BBR03, BHS17, CMG12, DM14, DHI12, DGP15, God15, HSL19, Kow00, Rei97, Ron92b, YZ21]. Sobolev-type [DG15, HSL19]. Software [BHNS16, But02c, Coo03, Emr02, Vig04, ATM19, BRZ17, CDW95, DCm+13, DCM13, DHIJJ10, KP96a, LP13, Mac96, Mil20, Rz99b, Stu97]. Solar [Sha02]. solenoidal [Han93]. Solitary [Nat07]. solitons [ZTZZ19]. Solution [AEG02, Bogo2, Boy05, CM01, CMR03, FKM01, GMT92, Jay02, Mar04b, MN08, PV03, AAH20, AR13, AHC05, ASS13, ABI20, ASG1+20, AH11c, AH18, AAD14, BOP98, POL98, BC06, BEQOR14, BT14, BBP17, Bra07, BE98, BM19b, BM19, Bru93, CGP00, CB16, CA07, CLGS17, CL05, CW14, CFL19, CNN15, DMA99, DmD16, DWO7, DB06, DI11, Fab16, FWC16, FH15, FS01, FH00, Gha16, Gha18, Gk20, Gm99, HT16, Han96, Han94, HYW20, HCL21, HP18a, jHyP1Z06, HFZ19, HR16, HM18a, IJE15, IJSS16, JH15, JRRS08, KP16, Kac18, Kamb15, KEL17, KS20, KS12, KS18b, KR20, Lee94, LIIYD07, LM14, LTFL10, LG95, MB09, MKA14, Mar93, Med10, MZL20, Mil20, MDL15, MA13, MMLM20, MR96, ML10, Nac99, NL121, PED15, PV00, Pis16, PR15]. solution [Pop15, Pop18b, RC14, R20, RG10, RM11, RMT13, RT19, RR98, RR10, SW00, SLA11, SY20, SS15, So18, SKE19, SMDMM18, SMA99, TS18a, USAF14, WLL12, WK93, YHQ19, YLD11, YYD14, ZR17, ZE12, ZM94, ZZY18, ZL07, ZE10]. Solutions [BS04, CGL01, EKM03, Gra03, HEOS04, MO04, NO04, Rec01, SFT03, WWD12, AGS08, AS10, AAIT94, AAI196, Arn97, BDN17, BD18, BC14, Bel94, Ben99a, Bou06, CaC10, CLWH20, CMWP20, CZL18, DS09a, DGST15, EG10, Eba18, Eft15a, Eft15b, HAL15, FS16, Ghe13, Ghe15, Ghe16, GCPG99, GPA14, Van17, GL19, HJ18a, HV15, Hua96, HM18b, HM19a, HZX20, ICR06, JI14, JS21, Kan15, KS15, KSK07, KKO17, LS15a, LM21,
MV13, MV14, MW98, Met19, MS11, Nat07, NJ13, OKP21, hPwL09, Pen13, PV98, QLZX11, Sho18, SKTGR19, TY21, Tom11, TN10, VSA12, VN18, Wan19, YHZL21, YXL18, Zah09, ZA20, aZ19b]. solvability [Le 98, WCM20]. Solve [PG05, AS11, ANA14, KSB08, MD21, NAA19]. Solver [Pop04, Som05, AF13, AR10, AV97, BW15, BBd95, EH97a, JRB17, Kub15, LLL20, MC05a, PV00, TY96]. solvers [AMKV96, DSS14, EY10, GH09c, GRT97, HL20, Jia20b, NAR05a, NB16, PSW11, Yal01]. Solving [ASS11, BAV18, BQ099, BH11, BD17b, BCV03, BKM03, CSFC04, EGSV04, EJR02, FY19, FT05b, GL04, Gom01, HS03, KM04, KSCS08, Kol04a, Kol04b, LZ09, Mai01, MM99, Mar04a, PL04, Pie99, Pry98, SGM02, SM21, TRRD02, ZS13, AAA18, AD17, ATC16, AK12, AZ19a, AG19, ATT21, Arg10, AH10, AGS20, BMA16, BLW09, BD17a, BNN16, BB14a, Ben99b, Bhrl16, BM97, Bla15, BS19, BSF17, BC16, BK08, CS16, CQ16, CMD19, CS94, CHH10, CCL18, CL06, CM16, CC16b, CC18, CW19b, CH11, CRN19, Cho16, CPS12, DWC18, zDYG18, DSI11, Dax09, DS20, Den14a, DHL21, DLYH17, DJG18, DL1D17, Dzu13, Ena96, EH97b, ES19, EM07, Ess98, EGSG13, EED19, FMY14, FHS12, FR18, hGzS17, GPCG98, GP99, GH90, GM97, Hai09, Haj16a, HT19]. solving [Hem94, HVMT17, HSTW14, Hey99, HSE16, HWXC19, Hua20, IY15, IDS16, IS17, Jbi03, JR20, JI13, JMI18b, KBCG13, KKB16, KCT21, KTO7, KPA20, KLZV95, Lei15, LMV00, LP18, LW13, Li17, LJ11, LZZ19, flxX12, LWS18, LHW13, MB17, MB06, Meh11, Mil18, MD16, Mio07, MLM19, MS13, NIK17, NM14, NHP06, NEMS14, PK18, Pea13, PS16, Pie96, PS09, Pop21, RO1B17, ROB18, RKMS16, RSKB17, Rec92, RZ16, RT20, RTD18, RAH11b, RB17, SS99, Sa99, SC021, SP21, SS11a, SEG14, SB21, SA14, SIE16, SI18, Sh196, SCDM20, Sm09, Sm13, Sol11, SXHZ20, SC18, TAM21, THF21, TG20, TH19a, TH19b, TLL20, TSD12, TDC21, THT19, WZ15a, WZQT15, WDL16, WB17, WC13, WWM21, XW18, XLW20, wYN18, YL19, YLL20, YZ14, YJX15, YP09, ZTW19, ZLG13]. solving [ZY13a, ZFC18, ZYX19, ZLL18, ZL1V7, ZV19]. Some [BO03, BS92, BR20, CC07, Cro03, Dum03, GP14, HM18, HSS04, IMT02, Le 98, LZ14, LC1L18, LLD19, LM15, Lu15, MAL04, MM08b, MM09a, Mat96, MS13, Pas99, Pas03, PV03, Sma09, Th19b, VC92, XZZ19a, ZW15, DKG15, AHJ17, BD09, BBC21, BF17, BV99, BDS00, BRZ96, CK05, CS99, DL08, DSI11, Die08, Dra00, DJL1D17, EDH12, EP97, GEP99, Gau11a, Ghe15, GCF95, HH11, HR00, Hua96, Hay21, JJK7, KK16, Leo08, Lin98, LSG15, MSC19, Mon96, NHP06, Now06, Now13, OQ12, Osa92b, PS16, PP92, RR08, Sab92a, ST18, SKTGR19, Sid20a, SX00, Tam10, Tem08, WG99, Win00, Yal01, dAR06]. sonar [BKPS93]. SOR [MSZ20, Nie00]. Sormani [BD10]. sound [DR07]. source [KL10, LSZ19, LL20b, MT93, PED15, SMNZ20, YPL21, ZR17]. sources [CK16]. Space [And14a, CP01b, DG05, ADG10, AR13, Bag16, BA18, BKF20, BZV16, BHS17, BIM19, Cal20, CE94, CY19, CX20, CL21, Dmb08, FZL16, GSV96, HCL21, HLT16, HL17, HLD20, JZF18, KL17, KMA13, Kuh13, LL20, LKBF17, LZ09, LWJ21, LRM16, MDL15, MSS11, PNW17,
Pot19, RZ16, SLA11, SYLT14, TM10, VLCL16, WLMA21, YL19, YZL20, YPL21, ZW FY19, ZJWF18, ZJZ20, ZZZ20, ZYL18. space-fractional [BKF20, CL21, HCL21, HLTA16, JZF+20, LKBF17, Pnw17, ZZZ20, ZYL18]. space-Riesz [CY19]. space-time [BIMR19, FZL+16]. Spaces [Mar04c, All18, ATT21, AT21, Buo17, CSi16, CSi17, CA07, CRN19, Cho16, DLR12, Dah93, DL18, DHF21, DKL15, ER19, GGNF17, God15, HKPW19, HM14, IAH20, IUM+19, Jai16, Jai17, JMI18b, KD18, Kow00, LP18, LCL21, MWsC19, MAL04, Maz99, Maz09a, PKC18, PG12, PDRG19, RT20, Re97, SSI14, SCD+21, SIE16, SL20, SC18, SCS18, TAM21, Tak17, Tan20, TB19, TH19, VA20, WGG11, WK11, WK12, WK17, YAT20, Yse99, ZG12a, ZG12b, van93]. SPARK [Jay02]. Sparse [ABG97, BP19, CP00b, De02, DR01, HL03, HL15a, NZ19, The97, AA15, BDN17, Bai97b, BF99a, Bou17, CCW21, CL96b, DDRT97, FS20, FP18, GG98, GHP00, GLW13, HL06, HP18a, HK17, Jón93, KD14, KMA13, PLH20, PW16, PWCsL18, RWTM21, SS99, Sch14, ST18, SI13, Spr98, Spr01, TSY20, UL18, VB96]. sparse-grid [Bou17]. sparsity [DHMS16a]. Spatial [KK00, DZ13, FNS19, FHC21, He16, OKP21]. spatially [GA20, SYLT14]. spatio-temporal [HOW95]. Special [Ano95b, Ano17, DJS20, FH05, GSt03, CP93, CP95b, CJWT96, GG08, HVTM17, IY15, LH10, LW16, Tom92, XX16]. Special-purpose [FH05]. specified [ANI15, KP96a, LM97]. Speckle [WHZ+18]. speckled [CTS09]. Spectra [BG03b, PP05]. Spectral [ALZ20, Ano05b, BD09, BO03, BK04, BFGM03, DG05, DR01, EKM03, GHMO8, Ghe16, HM19b, LS03a, jLyLqW17, LRGH20, MR02, NE214, PR10, PG05, TC05, Ten08, XZW13, YSXY19, Ahu09, AM21, ABI20, ABM10, AHC13, ACH17, ACH19, BD10, Bh16, BZV16, BK18b, BMR19b, CMR16, CG07b, CB13, CSC13, CFF19, CKF+20, DB06, DA09, DS09c, DK00, EED19, GS16b, GU20, Hei06, Hei07, HPS07, JRS08, KP96b, La17, Lam09, LRL19, LZL20, LCH20, LW16, Lya97, MR12, MT18, MG11b, MS215, SL13, SM14, WLMA21, WZ15b, YH21, YW19, ZA20, ZHT15, ZJWF18, ZJZ20]. Spectral-Galerkin [ALZ20, DB06]. Spectrally [BIMR19, GH06]. spectrometry [MvS09]. spectroscopy [MvS09]. spectrum [ACE99, CR12, Cao12]. Speed [FS01, BGRS09]. SPH [MFK+15]. Sphere [ASS03, NSS03, IP16, LD20, Le07a, TV19]. spheres [HL15a, Sun94b]. spherical [ALZ20, Xue95]. spheroid [TCA19]. spheroidal [SHF15]. Spline [CMRS01, NS03, Wri95, AB06, AZ19a, ASS11, ASS13, ART19, ACM93, AGN07, BD18, Bia94, BK13, BF17, BFSM20, BL93, BL95, Bra96, CFR06, CW14, CDD10, DL12, GGN14, GGN18, GZ18, Gau17b, Gau16, Han93, HM07, KS18a, KR11, KS12, Kim21, Maz05b, Mil17, PZL15, Pl093, Pl094, Poc14, RB21, RM11, Re97, Tra93, UTO07, WZ19, WD96, XL14, ZR17, Zal09, ZE12, van93]. Splines [FKMS01, HL02, Kva01, MSCB93, NS01, PSo1, AHR21, BKP93, BCM19, BV21, BR07b, BLS06, BM14, CH95, DDS93, DS15, GLRS08, Gre96, KKK00, KP09, Kim21, Kob97, KR07, KL91, Kva14, Lai92, LMM97, Lev95, LRZ12.
MRS93, MS01a, MST03, Maz09b, Maz11a, Maz11b, Maz12, Maz18, MRU91, MT06, MS96, Pow93, Rab92b, Rab92c, Rad08, Sch08, TM05, WD95, de 93].

Split
[PKC19, WZ19, AAA⁺18, Anh19, Buo17, CCL18, CRN19, zDYG18, Den14b, HH12, HMT17, HS20, JUM⁺19, KAF18a, KAF18b, KPC20, KD18, LCL21, MWsC19, MN17, MG18, RIAA19, RT20, SCD⁺21, SIE16, SDMMK18, TAM21, Tak17, THF21, TG20, TDC21, THT19, Wan17, Wan18, ZH19, ZW15, CGH12].

Split-step [WZ19, HH12, HMT17].

Splitting [Li95, LHW13, PT17, vdHM98, AG19, AKT15, AKKT16, AKQ17, BC16, CW19a, Che16b, Cho16, CKH14, DS20, tFZyZ16, GS19c, HWXC18, KM17, KMZ18, Ke21, LY17, LM17a, LM19, LKB17, MPS20, Met19, MG20, MG21, Mor17, PG15, RWTW19, Sti18, Tai92, TOA19, WL17, WPL18, XM16, ZWWW20, Zha11, ZFG18, ZY13b, ZLV17, ZV19, ZV21].

Splitting-integrating [Li95].

Splittings [GV00].

Spot [BvLP16].

SQP [GZ11, GZP18, LL07, mTLbJL14].

Square [LL05, Mar04b, MST03, DM97, Gau12a, Gau13a, Hig97, SHLY18, WCHK21, YCW⁺19].

Squared [RVF07, CS94].

Squares [BCV03, DG05, LV01, PG05, SK04, AAH20, AAD14, BRS09, CR20, Dax09, DMA19, DWX17, Ell93, HYW20, Hei06, Hei07, jHyPlZ06, HM19a, LV15, LDN16, Lei15, MMV19, MMGH17, MRS93, MZW20, NC94, NK21, OL94, Pen13, RAH11b, Rum14, SEG14, ST18, SM21, SXHZ20, TV19, VZ93, XXW17, Yua21, ZLWQ09, LMV00].

SSOR [LZ16a, Tan17].

SSOR-like [Tan17].

SSS [Sha19].

stabilisation [MT12].

Stabilised [GM03].

Stability [Bea98, BBd95, But02a, BH02, BJ04, CMP21, LC14, ILJV17, LERO3, RW11, Wei17, Wri02, ZCT19, ZD21, ZKD04, iV12, But96, BH05, CC12, CJ12, CCJc18, DL18, GL19, HH11, HKE97, Her96, Hom98b, HCH18, IJ19, CBPT21, LM17b, LWS18, Lœc20, Lya97, MV17, MHA16, Smi97, Tom11, Yal01, ZY14, ZXL15, dC16a, dC16b].

Stabilization [Asc97, Axe99, YJ18].

Stabilized [WSY12, LL20c, TX19, ZD21].

stabilizing [DI11].

Stable [AMCM06, BOL98, BGL07, CCG01, Hig97, Kob97, LJW17, PT18, Ver99, Bec96, BQ099, Con93, CKK16, VV07a, VV07b, FYYW19, FGR01, He16, HP18b, Hii10, HNY⁺18, HY12, IP16, KS20, KP09, Kim21, LS20, Liu21, Met19, Mon96, NL97, PSS10, PFT98, RHG15, SCDM20, SKTGR19, SSP15, Sol15, Tou98, ZLT⁺17].

stage [Ba197a, Bait97b, BZ13, CM16, FGR01, KM19, LG14, NB16, SFTG19, VV11, Ver14, WW19].

stage-order [Ver14].

Stancu [LQ16].

standard [WT08].

Standardization [DHL⁺04].

starlike [NP08, Ron92a].

start [SW10a].

Starting [HR00, CL19, MM19].

State [GF02, KW04, CL21, GSV96, KG14, LCH20, MB09, MO06, OMW21, PNW17, QZG⁺19].

state-constrained [OMW21].

state-dependent [KGH14].

stated [SL15a].

states [Sm197].

static [KKPT16, PS20, ZS10].

Stationary [JWL20, CV15, MP13, SKSS21, SW07, VV18, WZZ15, ZH17].

statistical [DWX17, TA96].

Statistics [KPGF04].

Statistics-Based [KPGF04].

steady [BRY14, CL21, MB09, PNW17, QZG⁺19, Sm197, ZH15].

steady-state [CL21, MB09, PNW17, QZG⁺19].

steady-states [Sm197].
steepest [BN18, HSK20, Maj13, SS12b, You16]. steering [Hag13].
Steffensen [AHVR17, EHHRV14, WZ13b]. Stein [FWC16, IWWCL13].
Steiner [FM04]. stencil [ABT07].
Stein [FWC16, LWCL13].
Step [BO02, CVA01, AG15, ATC16, ANI15, AMH10, AMA21, ASHF21, BKA19, BD09, BCST14, BC94, BJ98, BV09, CM93, CW19a, CS94, CJ17, CHMT10a, CO19, DJ10, DFP10, DS20, FHL21, FR18, GA15, HH12, HMT17, HVMT17, JT96, KNBVG18, KS20, Khe12b, Khe16, Khe17, KH20, KS97, KS06, KLR07, LW16, LG17, Li17, LDW18, LYY12, Lj01, Lj02, MA21, MBJ17, Mal21, MR09, MJ20, Mat15, Meh11, NSM20, NW19, NB16, PR120, Pot19, QZG19, RKMS16, RR20, RWTW19, SW10a, ST17, Sha99, SSH19, SS15, Sho18, SKTGR19, TG20, TS15, T198, VH10, W139, XW18, YAT20, Zha11, ZV21].
step-size [Loc18, VH10].
stepping [Sod02, IJE15, ZZ18].
steps [ALV20, BGL07, HVM15, KH20, LlLZ21, WZZ16, Wan17, vSv94].
Stepsizes [DZ01, ZQL19, ABS19, BC01a, JT96, LM17b, LL18, MN92, PLH20, VH12].
Stetter [GPGVS92]. Stewart [HC03].
Stiefel [CO03, DW12, ODL21]. Stieljes [Not95, TBA94, Van92, Van03].
Stiff [AHKW05, Che02, FG03b, AHP20, AMCM06, AH15, AM98b, BC01b, Che14, FYYW19, HH12, NB17, NB16, TX19, WCM94, vSv94].
Stiffness [ST02].
Stirling [Mor11]. Stochastic [ACM04, MAL04, MHZ05, Vig04, ZS03, ABB15a, ABB15b, AH15, BD17a, BM09, BB14b, CM96, DS21, DI11, El 18, ES19, FWC16, GZ18, GL19, HH12, Haj16b, Hab14, HLZ14, IJE15, JLP20, JW120, Kar15, KJ18, KLL10, KL17, KLR07, LLS11, LHL11, LM17b, LWZ21, LXP20, Mal21, MKBY19, Mii19, NAA19, Prz16, ST17, SS16, SZ20, TX19, TS15, VH10, VH12, WG13, XT16, ZL17, aZ19b].
Stokes [ZD18, BK18a, BRY14, BW13, CW21a, CC18, DSS14, FRJT09, He106, HM18c, JM00, KM17, LL05, LHR20, LC21, Med10, Oua99, PV98, PV00, PG05, SW10b, Si12, Sl06, XM16, ZS19]. stopping [CL19, RS20]. storage [LXQ15, Pol10]. stories [Maz05a].
Strang [GZ20]. Strategies [CR12, HR03b, NPS09, CR20].
Strategy [MT04, Aih17, AN14, AK15, ABM10, BRZ96, KH18, KSW07, TS92, Wan15a].
Stratonovich [XT16]. stream [ZHYV+20]. streamline [ST98].
Strengthened [AAAS03]. stretching [FHAL15, Mot14, NZ11].
strict [LCL21]. strictly [GM92]. string [BRZ18, MD21, RZ16].
string-averaging [BRZ18]. strip [ZW14]. Strong [CSI18, KLL10, LQ20, SI17, TTL20, YL19, ZW15, H19, IJE15, J19, JLP20, LLQ17, ST17, TH18b, TVC20, TS20, TDC21, XT16, ZZZ19a, ZZZ19b, ZW12b]. stronger [SI13]. strongly [Hie18, LYL15, PT17, QLZX11]. structural [CDS20, GHP+00, Pis16]. Structure [BH17, BB14b, KL04, ANI+17, AR10, B15a, CK20, CMWP20, CV92, DS21, Guo16, JL16, KW00].
Structure-preserving [BB14b, Guo16].
Structured [CP04, DP16, FG07, LMV00, LV01, Buc21, EP97, ED13, JK19, LAN18, LDC10, RZR12, SL15b, SKJ+18, YHZL21]. Structure [HHL21]. studies [JJ97]. Study [CGN03, QLZX11, dSCS04, AM16, CM98, CB13, CN17, DL97, FS20, GH10, Gau11a, GL20, JCF15, Kar07, Ma20, Man10, MWWY13,
PP18, PH20, SHF15, SW14, Sid20b, SS12b. studying [Bel99]. Sturm [AS10, AA12b, GHC15, LR14, Mar93, TBY13]. Sub [Gau12b, Bhr16, CLTA10, LR18, MM09b, MA12, YWZ19, ZP17, Gau17a, Gau19]. sub-diffusion [Bhr16, CLTA10, LR18, MM09b, MA12, YWZ19, ZP17]. Sub-range [Gau12b, Gau17a, Gau19]. subanalytic [Ple12]. subclasses [CK06]. sub-differentiable [HSK20]. sub-diffusion [CLT+13, CC16b, LLL21, LLLVZ17, YJX15]. Subdivision [CJ04, MM04, ARTY20, CCS05, DL08, DXY18, PT18, le 91]. subdomains [Cal20, GL15]. Subgradient [AT21, AN17, DJG18, TH18a, PT18, le 91]. sub-interval [CJ04, MM04, ARTY20, CCS05, DL08, DXY18, PT18, le 91]. Sub-intervals [CJ04, MM04, ARTY20, CCS05, DL08, DXY18, PT18, le 91]. Subject [LZ18a]. sublinear [AK00]. sub-matrix [LHZ10, Pen13]. Sub-quadrature [KV12]. subrange [Gau18]. subroutines [Lai92]. subset [Sab91]. subsets [Dam08, Loc20]. Subsonic [Lui02, KLB10]. Subspace [EJR02, MM04, ARTY20, CCS05, DL08, DXY18, PT18, le 91]. Subspaces [Amo02, BCN+16, AC19, BM19, HPS20, LWG18, MVV05b, Oar94, RR00]. subsurface [Hol98]. Subtraction [YKY15]. Subtraction-free [YKY15]. Subscript [LZ18a]. Subtraction-type [ZFC18]. Subtraction-free [YKY15]. Subranges [Cal20, GL15]. Subgradients [SR06]. Sub-intervals [XL14]. Sublinear [AK00]. Super [WGK11, WSK14, WK16]. Super-Halley [WGK11, WSK14]. Super-Halley-type [WK16]. Super-consistent [Fun01]. Superconvergence [FHC21, LS20, SL21, Bac21]. Super-convergent [Bac18]. Superfast [CL92, KV00]. Super-implicit [FH15]. Super-consistent [Fun01]. Super-linear [AK00]. Super-nodal [FP18]. Support [AS04, MST03, BP19, PW16]. Supported [GHM08]. Supports [HPS13]. Suppression [HFV+21]. Sure [GL19, LM17b]. Surface [KGD03, AG00, CLMM05, FRR07, Gal93, HLS10, NZF11, NPR08, PN93, WZZ07a, WZZ07b, WD95, WD96, JZ08]. Surfaces [KPT03, BE17, BDH+13, BMV09, CDF99, CLaL00, FHAL15, GLRSG08, HmdAES08, HSSB13, LN95, LKW17, Moo20, PT5B01]. Surfaceant [XCY21]. Survey [BFK11, Lor95]. SVD [CFM15, HCO3, JCL16, Jia06, LQX15, MRS06, OR17, RSCH+19]. SVDs [Jia20b]. Sweeping [ZZ10]. Swift [Liu21]. Switched [WZS14]. Switching [BBO21, CDLW21]. Sylvester [BEHS20, EJR02, HM18b, HM19a, Mit11, RS02, TM10, TZW19, ZLL+21]. Sylvester-Conjugate [HM18b]. Sylvester-Transpose [ZLL+21]. Symbolic [Bel09, Ben99a, DVJBN03, INR01, JJ13, Mil17, MCMX20, CHYZ98, CM98, EAB20, MD08, Mdr13]. Symbolic-numerical [CHYZ98, CM98]. Symmetric [ABQ04, FG03b, HR03a, AMM11, AAAA+18, ADL05, AA16b, AL97, ADGP15, BBC11, BOP98, BBP17, BK16b, CR96b, CGV92, CHY19, 


CG17, CC16a, CW19b, CC13, DMC20, DS20, Don10, EG19, FLV14, FP18, FGL19, GV00, HT21, Haj16a, HSE16, jHyPlZ06, HM19a, JRRS08, KKO17, KH18, LL93, LLZ94, LHZ10, LW14, LM19, ILhYD07, LZ19b, Man17, MM08a, MVV05a, Meu09a, MS14a, Mia19, Orb15, PL99, RWTM21, RSCH19, SMZMA18, Sho18, TT06, VGV06, Vos00, WL17, XW18, XHZ07, XLW20, YZLP16, YSLH19, Z17, Zha15, ZD17, ZFG18, ZHY+20, ZYW21, ZFX14, ZXLF15, ZM16, ZCG15, ZS08]. Symmetries [Kha14]. symmetrization [AE18]. symmetrized [Fue07]. symmetry [Vos00].

Symplectic [BI14, MO19, SSH19, AMM17, AMM18, BH09, But15, DS09c, FGR01, MBBY19, MO10, Sal05, WW14]. Symplecticness [Jay21]. Symposium [Ano95b, The97]. synchronous [BZ13, ZXP+20]. synthesis [BR07]. System

[DVJBN03, FKMS01, Sha02, BK18a, AA16b, ACE99, AT17, BMA16, Ben99a, CG20, CW14, Das19, Den14a, FY19, GNH10, GLd09, GPA14, GM97, Gu20, HBP13, HYW20, HDP18, HSE16, HL17, HM19b, KS12, KE16, KVM17, KK12, LHR20, LS15b, Lin09, LCW20, MBJ17, MV13, MW98, Med10, MMU20, MLM19, Pog98, SK19, TY96, TN10, WB17, XCY21, YY11, ZS19, CHY29]. Systems [AZMJ04, AAAS03, Amo02, ABQ04, BHD09, Bre02, BU20, CN15, DMRT03, GL04, GM03, KM04, KW04, Kol04b, Mal01, Pl04, RT12, RST03, SGM02, Sch02, Tvn02, AEH20, ATC16, AAB13, ABC97, AL97, AK15, AH15, ASGJ+20, Ano17, AH11c, AGS20, AR10, AM98b, Asc97, AK17, Awa10, ANA14, BN17, Bai97a, Bai97b, BBC11, BCW13, BHLZ21, BC94, BOL98, BW93, Bar91, BBO21, BNN16, BHNS16, BDV18, BC06, Bel94, BHS14, BH17, Ben99b, BKF20, BBP17, BBd95, BS92, BRZ98, BRS08, BKL10, BRM18, CL92, Cae10, CR96a, CR96b, CS94, Cdy98, CCC16a, CL05, CW19b, CK20, CG19, CJ20, CD16, CBGVN07, DWC18, DS20, DMD16, DT09, DEM93, DP16, Dum13, DMS16b, DNR17, EHTSM21, Es98, EGSH13, FGC19, FP18, FGL19, FHH96]. systems [FT05b, GP99, Gar19, Gar20, Ghe16, Gon16, GO20, GCPG99, GSV96, GPZ18, Hai09, HKE97, Hem94, HR05, Hey99, Hey01, HE05, HZ15, JRB17, JMS16, Jay21, Jbi93, JJ13, KBCG13, KCBT21, Kha13, KSB7, KKO17, Kub15, KK16, La 17, Le 92, LW14, LYW14, LS15a, LG17, LG18, LDW18, LM19, LG19, LC19, LZ16a, LZ19a, LXZZ21, LZ19b, Lin01, LN10, LW12, LW221, Man10, MM99, MS06, MZ99, Mii8, MS11, Mor17, Mii99, NBK17, OOO11, PS16, Pié99, Pop21, PG15, RSKB17, RM13, RW11, RG10, Rum14, Sad99, SW00, Sei98, STCP00, SG13, SA14, Sh96, Sid20b, Sim98, SS16, THF21, Tom92, Tuo98, USAF14, WCG99, WW14, WZQ15, WGG18a, WH20, WC13, WZS14, WL17, XW18, XY19, XLW20, YXW14, YHZL21, ZY+14, YPD14, ZA20, ZZZ17, ZWW17, ZD17, ZFG18, ZYW21]. systems [ZL07, ZM16, ZCG15, DM21]. Szász [AUD18]. Szego [BGVH92c, CBGVPP09, DPS18, GHM08, HLM04, JNW92, N008, Pej14, Ron92a].

[DHS09, KL94, YZBJ21]. tangential [Kao20]. Tanner [PP05]. target [BM12]. Tau
[ED05, BZV16, HMT17, RM13, SW14, EDAM13, GH09b, MG11b, Mok16].
tau-leap [HMT17]. Taylor
[BB14a, Bin18, Her96, NKS04, Pry98, SL18, ZFZ19]. Taylorian [le 91].
tearing [TFPG19]. Technique [RST03, AS11, Deh20, Gás99, Han93,
HWC15, LZ18a, NM14, RIAA19, SPV20, SKK21, WZ16, YD09, YZ17].
Techniques
[DR01, Kun01, Lig93, The97, ALB+18, AT19, BW93, Cro92, JCF15, Li96,
LWT19, LDC10, MB09, PLVB11, SW00, SCTP00, SLA11, TFPG19].
telegraph [He16]. temperature [NM14, ZZZ20].
templated [CDLW21, DZW17, LD20]. templates [FHH99]. temporal
[ALB+18, HOW95, LR18, SzS21]. Tension
[RM11, AZ19a, BV21, BR07b, KS18a]. Tensor
[ACM93, BG03a, GGV02, BJNKR20, BEHS20, BH01, DLDW21, GLL19,
HPS13, LH+21, LZZ19, Rab05, WCW20, wYN18, YXYX19].
Tensor-Product [GGV02, ACM93]. tensors
[BHLZ21, CHY19, IDAV09, LLQ17, San19, WCW20, XZZ19a, XZZ19b].
tenth [EM07]. tenth-order [EM07]. Teodorescu [Ca10]. term
[And14b, And15, BE20, Don16, HZ19, Khe12a, KB10, LSZW19, LWLT19,
LZ21, MKBY19, PED15, Sal17, SSP15, SzS21, WLMA21, We17, YPL21,
ZR17, ZD15]. terminating [CW08, TM14]. terms [Oua99, SIO20, Smi09].
Tessellation [dADdRC04, AT12]. Tessellation-Based [dADdRC04]. Test
[BD04b, LM04, BX19, CKM19, GHN19, Mac96, Mit11, Ste20]. Testing
[LW95, GL12]. Tests [WH04]. th
[BHM05, CL11, CVX16, Fue07, Gaj05, GL20, ZXR11]. Their
[Gla04, Mas05, AR20, BCST14, BL92, BF18, BHS14, BH17, Ber10, BZ91,
BGVHN29a, GMZ19, GL07, GG08, Gau11a, HY20, KCBT21, Km21,
LZZ21, Mar92, MSS11, Ron08, YWS20]. Theorem [MKO04, BGVHN29b,
CS08, Low05, LR14, MA15, Mel14, SK19, Tac12, TCV20, UA09, WZZ16].
theorems [CD00, MW16, RTD+21, TH18b, TSI20, d07b]. theoretic
[DI11, VB92]. theoretical [Sal05]. Theory [AKH04, MT98, BC06, CR00,
CF05, CZ96, CVLX19, CD00, Cuy00, Cve06, Guo16, KP96a, KA18,
Kul10, LG08, MA15, MA12, SS11b, ZY17, dBGKR08]. there [Lev05].
thermal [NZF11]. thermo [DN19]. thermo-elasticity [DN19]. theta
[JWL20]. Thickness [TE03, WWD+12]. thickness-shear [WWD+12].
Thiele [Gen12, LB93, TF00]. Thien [PP05]. Thin
[HM07, ZKD02, ZKD04, BKPS93, Han93, Lev95, Pow93, YXL18]. thin-plate
[Han93, Lev95]. Third
[CMRS01, AC17, BD10, Hai08, Hai09, Hea10, HMS96, JL12, Jat15, KS12,
KM19, ME95, Me11, NLT21, PKR20, PG12, RS97, Tem08]. third-kind
[NLT21]. third-order [Hai08, Hai09, HMS96, KM19, Me11, PKR20].
Thomas [ZZWK12]. Three
[AEG02, GMZ19, GGV02, JKK+07, MST03, NSM20, AK12, And14b, And15,
AKT15, BCST14, BK13, BE20, CMD19, Cal20, CHMT10a, DZ13, Don16, GH06, GH09a, HT21, HVM15, Hua20, KM19, Lai92, LK20, LZ21, LSSS15, MP00, MS01a, Moo07, PH20, PTSB01, PV98, SH12, SHTKR19, SSP15, SW07, TS18, TÖ17, WG99, WZ19, WLMA21, YAT20, ZXL15.

three-

three-by-three [Hua20].

three-derivative [TO17].

Three-Dimensional [AEG02, BK13, CMD19, MP00, PTSB01, PV98, SW07].

Three-Direction [MST03].

three-dimensional [MS01a].

three-field [WG99].

three-parameter [HT21].

three-pencil [JKK+07].

three-point [LK20, LSSS15, PH20].

three-stage [KM19, SHTKR19].

three-step [And14b, And15, BE20, Don16, LZ21, SSP15].

Thresholding [BP03].

Three-pencil [JKK+07].

three-point [LK20, LSSS15, PH20].

Thresholds [PR03].

Thumb [Boy05].

Tight [VW08].

Tikhonov [CRS04, BK13, CHMT10a, YAT20].

three-term [And14b, And15, BE20, Don16, LZ21, SSP15].

Thresholds [BP03].

Thumb [Boy05].

Tikhonov [CRS04, BK13, CHMT10a, YAT20].

three-term [And14b, And15, BE20, Don16, LZ21, SSP15].

Thresholds [BP03].

Thresholds [BP03].

Tikhonov-type [ZZ19].

Time [BL98, DG05, Söd02, ZS03, ZZ18, ZKD02, ZKD04, AD17, ATM19, ADG10, AF13, And14a, AH18, BS17, BKF20, BZV16, BMR19, CX20, CG13, Cui13, DAI16, EG18, Fan19, FZL+16, hGzS17, GHN10, GLS+18, HLS10, HKE97, HDP18, HA16, Hol98, HLT16, HZ20, HTVY13, HL17, HYJ20, HL20, ICR06, IJE15, JZ16, KS18a, KNBGV18, KR11, KS97, KB20, Lam09, LUM19, LSW19, LLX20, LIL21, LAN18, LXZZ21, Lor19, Luc97, LV18, LV21, ML15, MA13, MRS11, MvS09, MAFN16, NPS09, QXGZ20, RS06, Ria16, RK11, Sal17, SLA11, SYYL20, SSH+19a, Si12, SJ14, SYLT14, VCL16, Wan15b, Wan19, WX20, WLMA21, We17, YJ18, YZL20, YPL21, YWZ19, ZFY19, ZXR11, ZLW+13, ZLG+13, ZSF18, ZLL+21, ZHFW21, aZ19b].

time-delayed [RK11].

time-dependent [ATM19, EG18, Lam09, LSW19, Lor19, NPS09, SYYL20, YJ18, ZSF18].

time-domain [HLS10].

time-fractional [AD17, HZ20, KR11, LSW19, LV21, QXGZ20, YWZ19, ZLW+13, aZ19b].

time-harmonic [LAN18, LXZZ21, RS06].

time-independent [Lor19].

time-periodic [SJ14].

time-resolved [MvS09].

time-space [BL98, DG05, Söd02, ZZ18, IJE15].

time-steps [LILZ21].

time-transformations [BL98].

time-varying [GLS+18, LUM19, ZXR11, ZLG+13, ZLL+21].

times [Cas17].

Toda [FYI+12, MN01].

Todd [YZLP16, Khe12b].

Toeplitz [AAAA+18, AA16b, BM94, BC06, BCV03, BMR19a, BBd95, BG03b, BV95, CT93, CO94, DNR17, EG19, HK90, HZ93, Han02, HR03a, Hem94, HW18, HL17, IMT02, JL16, KV00, LVM00, LV01, Lin01, LN10, MA95, SC03a, TT06, TA13, Vos00].

Toeplitz-block [CO94, BC06].

Toeplitz-Plus-Hankel [HR03a].

tolerable [Pop15].

tomographic [AH14].

tomography [ACL11, BG11, BvLP16, RVF07, Wan15a].

toolbox [BMR19a, BvLP16, RZ12].

Tools [GHN19, Han99, Han07, HJ18b, Han94, FHH99].

Topographic [dADdRC04].

Topological [KGD03, BRZ17, FHH05, Le 92].

toroidal [Par16].

Torrey
torus [DL97]. Torvik [Mok16]. Total [LMV00, LV01, Zak17, BG11, CC06, CPZ14, DHJJ10, Den14b, DWX17, FAMA20, Hua18, JHLL15, LHZ+21, MZW20, Sar06, VZ93, WHZ+18, WCH15, XXW17, ZLWQ09]. totally [ANI15, ANI+17, GMP92].

totaling [ANI15, ANI+17, GMP92].

tour [Gau07]. TPS [SB21]. trace [Men09a, WG13]. Tracking [PLVB11, YYD14]. tracking [BHS11, Lle00].

trade [EY10]. trade-off [EY10]. Traffic [FLH04]. Trajectories [LPV03].

trajectory [Lo97]. Transcendental [Kal00]. transcription [BCT15, CB16].

transformation [Bel03, MS06, AL15, AG00, BRZ19, CTD10, CHHL18, CHI+20, DM14, GHM08, HLS10, Hom94, Hom98a, Hom98b, HV12, Li95, Li96, Rog95, Sid20a, SS12b, XV17].

transformations [Ben97, BL98, BS92, CMR16, GHM08, Her96, Osa92a, OOOR12, VC10, VPL97, Wen92].

transformed [IJ19, PRV120, SS21, Val14, Val15, YW17]. transforms [BV93, BD00, Coo09, DM98b, GS95, HIK17, MP08, Nor00, PSS10, PPV09, Sab92a, Sab14, Tas93, WQGZ18b].

transient [CGN03, SW10b].

transistors [NAR05a].

translates [Sun94b].

transmission [GX19].

transport [AM01, Guo16, HHST19, QXGZ20, VSA12].

transpose [BRZ98, Cdv98, CZ20, ZLL+21].

transpose-free [BRZ98, Cdv98].

trapezoidal [For21, OdZdRV13, VPL97].

Traub [AG13].

Traub-type [AG13].

traveling [CMWP20].

traversing [BBBC20].

Treating [Bres04].

Treatment [BZ94, The97, Che13, FRS21, Ghe18, Mok16, SS08].

treatments [MMW20].

tree [ZYW17].

Trees [But10, But19, FM04].

Trefftz [Kar13].

trended [LDN16].

tri [LSG15, ZYW17].

tri-coloured [ZY17].

tri-parametric [LSG15].

triangle [MR12, SLW13, SKJ+18, Wal06].

triangle-based [MR12].

triangles [HV93].

Triangular [DP01, CL96a, HL17, LKW17, LM17a, LZ19a, LZ19b, LZ18c, MT12, Pie99, SLW13, TT06].

triangularization [HM1AE80, Mer94].

triangulations [DLR12, JKK+07, Rip93, Son93].

Tribute [Bre03c].

trichotomy [DS09c].

Tricomi [ZLW+13].

Tricomi-type [ZLW+13].

Tridiagonal [FKMS01, BOL98, CDW95, Hen94, Jia20a, LLZ94, PL99].

Trigonometric [PQ95, CBGVM07, Don13, FKP06, GZ18, Jat15, Khe12a, KH20, NJ13].

Trigonometrical [MKS18, Ixa19].

Trigonometrically [FYM14, JSF13, Li17, LG19, NBJA17, SS15].

Trimmed [KGD03].

trinomial [DM92].

triplets [VGB96].

Trivariate [BDIR18, CFR06].

Trummer [Pol10].

Trummer-like [Pol10].

Truncated [Pom93, GMY18, JLP20, Jia20b, KLL10, MM08b, MM09a, MR06, OR17, SH21].

truncating [dOS07].

Truncation [AAA17, HKPW19, Kao20, MW16, Tam10].

Trust [CR03a, HZ95, AA12a, ARY17, BKR18, BE17, CHY19, HZ93, KE16, LZ18a].
trust-region [AA12a, ARY17, KE16, LZ18a]. Tseng [AG19].


TV-based [XYZ14]. TVD [GLL12]. TVD/CBC [GLL12].

TVD/CBC-based [GLL12]. twined [GN12]. twisted [SS08]. Two [AC03, AA03, AAB13, BKFMA11, BKR18, BKA19, BD02, BS21, BCN+16, BE20, BV09, CW19a, CQLY15, CLWH20, DFJP10, DZ01, DRR97, FAMA20, FW13, hGzS17, GGV02, Gom01, GL21, HR03b, HTVY13, JJK97, LR18, LRL19, LZ20, Liu11, MsC20, Mar92, Mil18, ODL21, ST17, SCW17, TE03, TS15, TBA94, TCW14, WY10, WC10, XZZ19b, Yan18, Zha09, Zha11, ZW14, AD17, ASS13, AABM17, AC19, AAD14, Bac18, Bac20, Bai97a, Bai97b, BCW13, BZ13, BJ98, BZV16, Bra06, CB16, CCT16, Cas17, CT10, CLTA10, CM16, CY19, CW19b, CLBT15, Cro92, Cui13, D10, zDYG18, DHS09, DZ19, Dzu13, EAB20, EGGS13, FYM14, FHL21, FPP05, FR18, Gau10, GK20, GCGVH92, GL15, GLS+18, HHST19, HCL21, He16, Hem96, HST13, HLTA16, HFZ19, HL20, J196, KPA20, IWAG08, LL14, LD18]. two [LZ16a, LZ19a, LS15b, LYL15, LSW16, LW17, LD20, MS20, MS20a, MT12, Met19, MP14, MD1, MDL15, MKS18, MS12, NV21, PR14, PCDH20, Pis16, QXGG20, RKMS16, RR20, RGJ10, RhG15, RWTW19, RSCH+19, Ros97, RB17, SW10a, Sch17, SB21, SW10b, SSY10, SL21, SS15, Sho18, ST99, SJW21, Tak17, TS18b, VZ93, W18a, W19, WCM94, YZ21, YJX15, ZR17, Zha09, ZHZ15, ZD15, ZHF21, ZV21, ZD18, vdMRS06].

two-by-two [BCW13, CW19b, LZ16a, LZ19a, WGZ18a]. Two-derivative [CQLY15, TCW14, CT10, F14]. two-dimension [SB21].

Two-Dimensional [BD02, HR03b, DRR97, JJK97, Mar92, AD17, AAD14, Bra06, CLTA10, CY19, Cui13, GK20, HCL21, He16, HL20, KPA20, LRL19, LZ20, LSW16, LD20, NV21, Pis16, QXGG20, RhG15, YX15, ZR17, ZHF21].

Two-grid [CLWH20, DZ19, HFZ19, LYL15, LW17, LS20, MD1, MDL15, QXGG20, SW10b, SSY10, SL21, YZ21, ZD18].

Two-Hydrodynamic [TE03].

Two-Lagrange [GL15].

Two-Level [FAMA20, MT12, ST99, vdMRS06]. Two-parameter [BKA19, WC10, Dzu13].

Two-parametric [CLBT15].

Two-Phase [AA03, HHST19, Met19].

Two-Point [AC03, DZ01, TBA94, AABM17, Bac18, Bac20, Cro92, EAB20, GCGVH92, LS15b, MS20a, PR14, RB17, WCM94].

Two-sided [BZV16, HLTA16, RSCH+19, Sch17, VZ93].

Two-stage [Bai97a, Bai97b, BZ13, CM16].

Two-step [BV09, CW19a, DFJP10, MsC20, ST17, TS15, Zha11, BJ98, DJ10, FHL21, FR18, JT96, LD18, RKMS16, RR20, RWTW19, SW10a, SS15, Sho18, ST99, ZF21, ZV21].

Two-term [ZD15].

Type [AC03, MC05b, MC05c, SFT03, Van02, ALV20, AH09, AH10, AH11b, AH12, AG13, AM16, AH18, BL92, BPR20, BRS91, BRS92, BRZ98, Bre99a, BS14, BGVH96a, BCJ99, Cdv98, CRN19, CGL99, CG19, CJ20, CKKT16, CD07, etc.].
CK06, CHK14, DL97, Die08, DPS18, DHM12, DGP15, EED19, FHH96, FR18, 
FLR01, GGNF17, Gen12, Ghe13, Ghe16, GEA20, HVM15, HPS97, HSM96, 
Hom92, HLZ14, HL15b, HSL19, IDS16, IS17, IUM+19, JSF13, JS15, JFL19, 
Kar10, KAF18b, KGMH21, LW13, LHM20, ILLVZ17, LTFL10, LQ16, LWS18, 
LS20, LMMD05, LV18, MsC20, MP08, MJ20, Mat96, Maz09a, MP14, Moh10, 
MK17, Pas92, PC13, Pej14, PS06, PP92, Pop18a, Pop19, Ron92b, Sab14, 
San19, SH12, SS12a, SKP20, SLD20, SW19, Sol15, SG10, TAM21, Tem97. 
type [Van92, VV11, VdR13, VS19, WZ13b, WG13, WK16b, Wan19, XH20, 
ZLW+13, ZFC18, ZZ19, ZHL21, ZH17, ZWW21, ZG09, dBd05]. typed 
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unconditionally [He16, HP18b]. unconfined [SMNZ20]. unconstrained 
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DW15a, DW15b, DBH21, Don16, HWC15, LLL18, LM13, Lin14, LL18, gOM14, 
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[AG13, Che13, MFK+15, Iva17, WZ11, ZE10]. Uniform 
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Valued [KM04, Mat04, AM21, AH08, ANA14, Den14a, DLYH17, GMT92, LFW92, LWF92, ZFC18]. Values [FH04, AM98a, BG91b, EL01, GQ09, LX17, Lex18, MT19, NN12, SL18, SHLY18, TM20, XL14]. Vandermonde [KN21a, GM92b, KV00, KRS19, KN21b, Tas93, Tom92, YHZ20]. vanished [SKTGR19]. Varga [Ano00d]. Variable [ABS19, BC01a, Che02, CO19, Gau09d, Hua20, JT96, Ngu16, AK12, BK13, BK18b, BL98, BC09, Car92, CLT13, HP18a, JR20, JZ14, KS06, Li00, LW21, LM17b, Lyn08, MJ20, Meh11, Moh10, MK17, Vs09, Mi100, MAFN16, NB16, RT19, SS99, SAE19, SXHZ20, VH10, Wan15b, WZZ16, Wan17, ZW14].

Variants [Aih17, MR02, EGSH13, KKB16, MS14a, RWB09, SS12a].


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