Title word cross-reference

(1 + 1) [RF10]. (k) [YC99].
(λ2A + λB + C)x = b [SP02]. (m) [WOW00].
(Re ≤ 9500) [GHTW00]. 1
[GV16, HJLZ18, KNV+16, LW03, MMVW13, RMB00, SSN9, VB07]. 1.5
[KAU18]. 2 [ABST13, ACD+08b, BWV15, BLS14, BH97, BI09, BK14, CMV97, CD01, CGX21, KL15, KW07, KP06a, Kra09, KNV+16, Lamm97, LRP07, LYL+11, LW03, LNS15, MT97a, NN03, Sma01, ZNZ16, ZND18, ZWZ19, vVKA11]. 2, 3, 4 [Goe97].
2/3 [DHPAH19]. 3 [BIA99, BIA05, CP13, CWL+14, CCC18, CDB13, CMSS06, CH11, Don06, FMW19, GH13, GD03, HA01, HHLZ21, KC16, Kra09, LS12b, LFJS14, Min02, PATF19, PTT20b, PS10b, PWGW12, PELY13, PRSS11, RY03, RL18, RH06, Sch05, WZC19, ZCW10, vdSF21]. 3/4
[LDGK20]. 5 [Goe97]. 6 [RY03]. 2 [MW13]. 3
[BOF16]. A [APSG14, APSG16]. A−1
[ADLR15]. α [BFM+04, BMM+10, PR09]. B
[BGK15, KPP+16]. cA−1b [ST11]. C
[LR99, PMH+16]. C∞ [Pla15]. D [AS18].
[MRS18, SvG10a]. ℓ1 [GG19b, CJK10], ℓ0
[APSG14]. ℓ1 [GNZC17, NNT13, CJY16, GLN09, HAS20, YZ11], ℓ1−2 [YLHX15].
ℓ1 − ℓ2 [YSX17]. ℓ2 [CXY10], ℓp
[CG19, CXY10, LMRS15]. ℓq [LMRS15]. η
[CB98]. F [TCWW20]. f(A)b [CAS11]. G
[GXZ21]. H [DMMO05, ACK19, Doh21, HMM+21, Ain96, BH12, CDB13, EOD93, GC97, HTB+05, LM21]. H(curl) [LO11].
H(curl2) [ZWZ19]. H(div) [Tal15, DKL+19,
KV12b, LMM17, WWY09, KLL+.16.
H(curl) [RK19]. H(div) [RK19, WWY11].
H1 [DTTY18, JK11]. H(curl) [JK11]. Hc/Ei [RH09]. HP
[GI18, AGH13, CGP19, EPR10, FHL13, HXB13, PRS12, ZK21, BDK+20, CDG17, DEV16, GL08, HMM17, PDTVM08]. I
[May08]. ILU [ACD18, LSC03, OKLS15]. j
[BF16, RY03]. K [ROO08b, Gre03, Joe93]. L
[HO93]. l − 2 [FNNB05]. L1 [LWZ17]. L1
DGP10, SWU16]. L2 [EAS11, MNvST13].
L2[H1] [Pic10]. L1
[RSNR17, WBS+17, FNNB05, YG15]. L2
[HRT10]. Lp [DF10, Lee21]. LDLT
[ADGP07, DHL20]. LU
[DGH12, LSS03, MG07, VM13]. M
[HW99, Vir07, AMN15, BK17]. R2 [DWM15].
R3 [AB08b, HS99b, PL12]. Rn [CBN02].
CH[SLR+16]. H [DHP17]. H [Bö09].
Hε [DBG15a, HM20b]. Hτ [BM12]. H∞
[BM18]. O(∞) [BMF12]. O(N) [BCK16].
|M| [WL13]. N [Ahn96, BME93, KL00b, AE18, BOF16, BEM94, GMS21]. N log2 N
[FMP06]. O(1) [ABL20a]. O(2) [WAS94].
O(N) [GML4a, OKE14]. P
[CK03, An96, BI00, BB08, CG99, CS97, CS16, FTY15, GC97, HKG97, JP11, MSL13, MP21, PP12b, TB99a, ZK96]. p + 1
[vNL04]. Pk+1/2+ir(x) [GST09]. Pk NC
[Le 05]. Pk [Kan03a, Le 05, WWM03]. Pk
[HM10b]. Q [GMS21, MMRN15]. qd [von97].
QR [But13, BH20, DGH12, DI7b, HvD96, MOHdG17, YTD15, YFS21, Nag93, Wat94, VD10]. r [EOD93, SSN19].
r−λ [CJ05b]. R3 [Atk94]. ρ [CFH+03]. s
[Mon20, SvG08, Son12]. SN
[HSMT20, KR14, Lee10a, Lee12, Lee10b]. T
[LVZ13b]. τ [Ber97]. Θ
[WL08, HWZ19, TSK09]. TV [CKJ10]. V
[BGP94, Kwa99]. ε [BRZ14]. φ [BKT21]. W
[GP18]. W = f(A)v [TE07].
X + ATX−1A = Q [GL10]. xx
[CLQ12, CLW13].

-Adaptation [DEV16]. -Adaptive
[CDB13, FTY15, HMM17, OMSD93, GIa18].
-Algorithm [VD10, von97]. -Algorithms
[BRZ14]. -Approximation [DHPAH19].
-Box [LM21, BH12]. -Conforming
[DMMO05, JK11, DTY18, ZWZ19].
-Cross [GMS21]. -curve [HO93]. -cycle
[BGP94, Kwa99]. -D
[BB17, BIAO5, CCC18, GD03, HHLZ21, KP06a, LS12b, RH06, WZC19, vdSF21].
-Diffusion [SSR21]. -Dimensional
[DF10, Joe93]. -Discrete [LGK20].
-Equations [GZX21]. -estimator [HW99].
-Extrapolation [Ber97]. -Factorization
[VMP13]. -Finite [GL08, PDTVM08]. -Fold
[ROO08b]. -Galerkin [LWZ17].
-Independent [HTB+05]. -Lagrange
[BLS14, KL15, LNS15]. -Laplace [CK03].
-Laplacian [BI00, CS16]. -Level [KL15].
-Matching [KPP+16]. -Matrices
[BM12, Bör09, Vir07, May08]. -Matrix
[DHP17]. -Method [PR09]. -Methods
[TSK09, BGK15, WLO8, GP18].
-Minimization [HAS20, YG15, DGP10].
-Multigrid [HMM+21]. -Multilevel
[BK+20]. -Norm [BR08]. -Optimal
[APSC14, APSC16, AS18, HM20].
-Refinement [FHL13, TB99a].
-Regularized [CJY16]. -Robust [MP21].
-Scheme [HWZ19]. -Sparsification
[APSC14]. -Splines [LZ13b]. -Step
[Mou20, AMN15]. -Symmetry [WAS94].
-Tensor [MMR15]. -Tensors [GMS21].
-th [PP12b]. -TV [GL09, SWU16].
-Version [AGH13, CDG17, CG99, CS97, ZK96].

[EO15]. 14 [BEM94]. 1M [Van20].
2 [EO16a]. 2000 [vdV01, vdVDE+02]. 2002
3


3 [Bur97, NKTY08]. 3-D [Bur97]. 3D [vLH14, Sar98].

4th [MCV17]. 4th-Order [MCV17].

5/CM [BP97b]. 500K [ROM18]. 5E [BP97b].

60th [PS97].

754 [MRV06].

860 [Rot96].

94e [BEM94].

A-Optimal [HAS20].

A-Posteriori-Steered [MPV21].

A-WENO [WDGK20]. AAA [NST18].

AAAtig [Bad21]. Abel [HFL+16].

Ablation [CBK18]. Abscissa [MG12, Ros15].

Absolute [VK13, YYWY18]. Absorbing [ABK11, BHG14, FJ09, HY14, LZZ18, YWWG21].

Absorption [LP96, MMMY96].

Accumulation [RW97]. Accuracy [ATWK19b, ALRT17, AIV98, BBMZ20, BP97b, BCCI98, BRK16, CGAD95, CFKM18, CLAT10, CK94, Cor98, DMPV08, DS95b, DS97, Dor10, FO19, JZ00, LS09, LB06, LT20, MR02, MKRK13, NN03, NL20, PQOB14, RX17, RGOY10, RF07, Sch96, SMYS21, SZS97, Srk00, ZKK15, ZLTT15, ZMK17, ZLJ96, Zin00, vHBTC12, vSRV11, Hig93]. Accuracy-Conserving [MKRK13, vSRV11].

Accurate [AdWR17, ABMR11, A007, ABIGG16, AP12, BOB+19, BS18a, BWV15, BM18, BHM20, BR09, CH17, CCL+20, Che05, CCC18, CSZZ20, DH03, Drm97, DKKM14b, EE14, GBCT10, GST12, GCG+19, HG02, HT13a, HLW00, Hen06, HSY20, JL11, JF16, Kou09, KP05, KM12, KR12b, Ky12, LG09, LD16, LFBO08, Lnu15, MC10, Nit99, OR05, PK+13, RO08a, RO08b, Rum09, SL20, Sha21b, SL09a, SC02, TB22, TB99a, TW22, VPP05, WL07, WM05, WRS17, WS20, Wu21, Yan21, ZCL+11, ZJC12, ZXY21, ZCF06, Zin14, ZPE12, vdVXX19, vSRV11]. Achieving [BS13, Ros05a].

Acoustic [AM19, ACHN21, BC06, BS06b, FKTW10, Kös07, LLSX21, LH19, Mal07, Z294, QRV21, RZ03, SBW16, Smi97, Str99, YWGW21, YBM+18].

Acoustics [BGH14, Nat98].

Across [CYYV15, KM18, TLLK09, Lay06, LP06].

Action [AMHI11, AM18, Ber98a, HK17, KR17, RX18, WZ21a].

Actions [ACG20].

Active [BBK21, CDW14a, CDW14b, CKBT16, DTR21, HSW08, KP11, LZW20, PST15, YYY16, ZJKX14]. Active-Set [PST15, YY16]. Active-Set-Like [KP11].

Activity [RC06].

Actor [ZHL21].

Actor-Critic [ZHL21].

Actuator [ABD+17].

Acyclic [GTMP07, HOU+19, MZW09].

Adaptation [AFMP15, CCP20, Che94, DPP15, DF10, DEV16, DMRR19, Hua05, RH06, Wal99].
Adapted [AMP00, CCA03, DZ12, GHK14, Lab05, RHSK11]. Adapting [DBA19, HHMDC18]. Adaption [MP08]. Adaptive [AB02, AGI10, AHK+17, AMM+11, AD18a, AD19, ARM+19, AFOQ19, ABIGG16, AW15, AGL13, AD06, ABI00, BBSV10, BB13, BMNV20, BMNV21, BB17, BLH02, BG14, Ban08a, BH00a, BL04a, BO07, BM17a, BBC+01, Bas98, BC06, BBSW94, BBC+16, BC09a, BK06, BS16b, BZ12, BB15c, BB05, Bör07, BFM+04, BFM+05, BMM+10, BMV11, BTGH12, BWG11, BH16, CHR99, CSW99, CP03a, CHW20, CD02, CW207, CCCZ10, CKL16, CVK13, CDB13, CHH10, CGP19, CM13, CVE13, CPB19, DMS01, DMM+08, DM13b, DDGS16, DHJW08, DL19, DKKP14, DLZ10, DO8, DMD+12, DLSL1, DGvdZ18, E8LS21, ES17, EV13, EHW00, EMT09, FUN18, FLU+20, FTY15, FL18, FL02, FNTB18, FKK+14, GT98, GG19a, Gia18, GB06a, GCC+19, GGS08, GM19b, GC17b, GML+21, GG10, HHM08, HS05a, HSK19, HMM17, HBB+16, HH02, HR99a].

Adaptive [HW21, HKKR19, HKKW19, HKLW21, Hof05, HK21, HEGH14, HJP04, HXX18, HSO1a, HB97, HBF+19, HLZ19, HS94, HC20b, IJ08, JS93, Jah10, JZT08, Jam98, JF11, JK11, JHJ12, JL19G220, JP07, Jr94, JZG06, KKV13, Kawi17, Kaw18, KGGS10, KV05, KK16, KRT16, KY05, KHRvBW13, Kui12, KPP07, KO19, LG97, LMPQ03, LNP15, LS16b, LM14a, LZ21b, LJ98, LCL18, LKK18, Liv15, LT14, Log03a, Log03b, LFLS08, LK04, LRR98, Mac98, MNNR19, MS13, MT19a, MH17, MV09, MF19, MK08, MRW15, MPV21, Moo00, MT16, MS20, MGH21, NKLW94, NZGK21, NJ14, OB21, OPRB06, OS15, PBP14, PDTVM08, PZZB15, PW15, Peh20a, PTT20a, PP03, PCL+16, PD15, QZT11, QDKW18, Rav02, Rüd94, SP03, SDNL10, SYZO15, SR18, SNB16, Spil16, Ste00, SMN10, Str94, TW12, Ten98]. Adaptive [TLT12, Tra95, TPW09, TY11, TLE12, WMC11, WMC12, WG18, WLLL18, WDGK20, WCL+21, WCH14, WM11, WMU13, Yu01, ZT17, Zas95, ZJC12, ZAD+16, Zha20, ZMS10, ZRK15, Zie12, aKT18, dVPS+17, dLRT09, vdDA12, EOD93, FF94, HL97, NP96].

Adaptive-Krylov [LT14]. Adaptively [BCGR98, HG00, Lee14, RKLN07, TT06].

Adaptivity [BP13b, CGKM16, CEJ+10, CPB13, CM99, FDE+06, Har08, KMW15, MCB18, MHS98, SV08a, WvdZS18, Yan18, vdZVdB10a, vdZVdB10b]. Add [BHL+20, Goe97]. Added [SBHS19].

Added-Mass [SBHS19]. Additional [UG19]. Additive [AP99, BV16, Bre00, CS99, CL11, CGG07, GC97, HJN17, HL20, HMR09, Jay98, Kra12, KLL+16, LJ19, LSC18, LKBJ18, NT18, PS08, SCGT07, Vil14, Wan12, WGT14].

Adequate [FH06]. ADER [AGI10, TM14]. ADI [DMML05, TV98b, ZSp1014]. ADI-Like [DMML05]. Adiabatic [Jah04].

Adjacencies [SRI+18]. Adjoint [ATK12, AHHR16, Bon01, BCCX21, CLPS03, CP04, CEJ+10, CSW14, FHF13, FR10, HTMM15, LQH21, Sch05, SU15, TW13b, WLE+00, WM09, ZS14, GGS19, Sta97].

Adjoint-Based [ATK12, CSW14, SU15]. Adjoint-State [LQH21]. Adjoints [FHFR19, HM10a]. Adjusted [CHW17a, CHW17b]. Adjusting [Ste02, Zha18a]. Adjustment [CLP08]. ADM [CE17]. Admitting [DMR17].


Advective [ADR14, ALLK15, AHH12, BSMM16, FL19, GH007, GGS08, GSM20, HDF+19, KG14, LW12b, LSV13, MRFV18, MS98, MYN20, NN03, PDH09, PH13, SBF04, SWN20, SSR21, TZ18, TM14, WKL04, WDE+99, WL01, YVB98, ZK14a, Zbi11, ZJC12,
Advection-Diffusion [ADR14, AHH12, GGS08, LSV13, WXK04, WDE+99, ZJC12, ZTM+16].

Advection-Diffusion-Reaction [GHH07, PDH09, SBP04, TM14, ZRTK12].

Advection-Dispersion [ALLK15].

Advection-dominated [PCDB96].

Advection-Diffusion [ADR14, AHH12, GGS08, LSV13, WXK04, WDE+99, ZJC12, ZTM+16].

Advection-Diffusion-Reaction [GHH07, PDH09, SBP04, TM14, ZRTK12].

Advection-Reaction [GSM20, WL01].

Advective [XCS16].

Advective-Spectral-Mixed [XCS16].

Adversarial [YZK20].

Aeroacoustic [Dor10, RSA05].

Aerodynamic [Har08, HS06b, Haz08a, Haz08b].

Aerodynamics [SD21, Tsy99].

Affine [KA95, Kor93].

after [GB98].

Age [BF13].

Agglomeration [BCDE21, JV01].

Aggregated [BMV18, BMNV21].

Aggregation [BFM+04, BMM+10, CM09, Cho05, DMM+08, DMSW10, DMM+10a, FKK+14, GaP08, GV16, JKKM01, KW10b, MN08, NN17, Not12, PoH09, ST08, TAY+19, TY11, TY15, DS96].

Aggregation-Based [FKK+14, JKKM01, MN08, Not12, TAY+19].

aggregation-disaggregation [DS96].

ahead [FGN93].

Aided [HOY03, YTT21].

AIR [MRS18, SSR21].

Airfoil [Yiu95].

Algebraic [MRS18, SSR21].

Algebraic [MRS18, SSR21].

Algorithm [AKA13a, AKK14, AM18, ALLK15, AFK15, AFS19, And99, Ash95, AHH16, ABL+20b, Bad21, BB17, BS99a, BS02, BK98, BK99, BS05b, BS98, BDF01, BDKR21, BG17a, BG17b, Bi00, BC09a, BK06, BZ21, BR05b, BR18, Boz09, BZ97, BVW03, Brui15, BDR18, BLNZ95, C20, CD15a, CMS94, CC08, CC10, CP03b, CK19, CDM+13, CHO12, CP15b, CRT11, CWD13, CSW10, DH17, De 12a, DM13b, DZ12, DL20a, DP07, DDF00, DTR21, DF20, DPV05, DP20, DTV13, DPAH19, DGLW16, EW00, Ein19, EL19, EH21, EAA21, EBBS+11, Ett16, FL18, FS11, FP07, FJP99, GN16, GKRNS19, GS19, GKS20, GL21, GH07, GH15b, GVP06, Gar07, GM21, GAMV13, GV13, GL03, GLR07, GM13, GS05, GKK10, GLC21, GMPZ06, GLN09, GrM10, HJ17, HL12, HT14a, HO18, HSM11, HSM15].

Algorithm [HJ07, HHSW11, HKO99, HL95, HvdG96, HWD02, HS06d, HOW17, HH16, HWV95, HR98b, HS01b, HHL15, HCY16, HvdG18, HSW08, HGPM14, IO08, TOK7, JK15, JN10, Jou94, Ka20, Kas95, KV12a, KHrWv13, KHrWv14, LV98, LRSV11, LC14, LLS13, LT09, LH96, LZ99a, LZ99b, LGP14, LFS14, LXV+16, YLY+11, Lo16, wLxY00, LTzT21, LB06, Liv08, Liv15, LWW+16, LR98, Lyo11, MG07, MG09, MG11, MMR+94, MK00, MBGV16, MV16, MN11, NST18, NK15, NGX14, NCT99, Nov15, Oet09, OKF14, PKR+13, Par17, KR18, KKV13, KY03, Knu01, Kra08, KMRW97, LO11, LB12, Liv15, MO08, MFJ19, MOSS17, MRS18, MS19, MMRS19, MV94, MB00, MBT21, Mis01, NN12, NN14, NAC+15, Not12, Not17, OS07, OT11, PRM97, PBV18, Pul08, RX17, RMB00, Sch05, Sch09, SS10a, SSR21].
Algorithm
[Wan13, WLLZ18, WMSG09, WYGZ10, WMBT19, WL13, WWJ12, WC17, Wu18, WZ19, WZ21b, XK08, XYZ05, XAW17, YMW07, YZY09, YCC10, Yin09, You94, ZTK19, ZZ18, ZY05, dMHJM00, von97, Alu96, BZ93, BPT93, BDP96, CGS94, DS93, EB96, FGN93, Fre93, Kor93, Lan93, LV94, LL93, MMM95, MMMY96, MS93b, NT20, NP93a, OS95, PS93, Saa93, Smi93, Wat94].

Algorithmic
[APvDG12, HT16, Moo00, NL20, PXYY16, SW17].

Algorithms
[AB08a, AdVC00, Ain14, AMH12, AMHR15, ACD95, ACK19, BCGR98, BDS98, Ban10, BH00a, BH20, Bar00, BHT09, BM05, BF95, BFK03, Bit99, BB15c, Bja19, BT97, BHM20, BTK19, BtVC9+10, BM95b, BRZ14, BM11, BHM19, BDG20, BWG11, CGK+98, CK92, CJH11, CGS02, CWC08, CCS03, CH02, CKY98, CD15b, CLLW20, CD01, CYVK15, CWY17, CRR18, CMM95, CDFQ11, DJ07, DAE02, DW17, DSC05, Dor98, Dor10, DW94, DGG99, EHN12, EOZ94, EY07, FLX21, FMYT16, FWA+11, FSvvdV98b, FW97, Fra98, FFS07, GaP98, GJSZ13, GLxy19, GTMP07, GST12, GGLT00, Goe94, GY90, Gon15, GG21, Grit94, GE96, GZT+99, HRV11, HM10a, HV01, HOU+19, HK95, HW09, HMW97, IBW15, IMS96, Jia14, JY21, JY97, KKK16, KCL16, KM07, KT15, Kar96, Kea97, KS94, KPL13, KK02a].

Algorithms
[KPP+16, Kir14, KEF11, LS99, Lan08, LS94, LXS19, LZ21b, LK15, MCL19, MS07a, MNBK10, MO00, Mar09, MH16, MRS16, MT06, MZW09, MS07e, MG+18, MW16, NH13, NKKG21, PVK16, PH13, PSSW15, PBJ+96, PBC05, RNR13, RT05, RMD08, RKvdDA14, RG95, Ros15, SKMF15, SIDR15, Sch19, SR16, SIS96, SDH21, SSK17, SrG08, St01, ST98, SWU16, SW15, SW10a, Sun95, Ten98, TAH15, VMV15, WLX+13, We99, WNC08, XB16, XJS13, XCLQ20, YG15, YZ11, YFS21, YSZ14, ZT17, ZLLT15, Zha20, ZMQCS21, dWPR20, vddDA12, BGP94, BME93, BEM94, Car93, CG93, EG93, Gt94, NF93b].

Aligned
[GH14, GHS+09, MB13].

Alignment
[NKGG21, ZZ04].

All-at-Once
[ILN21, MPW18].

All-Speed
[AIP19, CLLY20].

Allen
[AL19, HX21, HYW20, iltZ21, ZD09].

Allmaras
[DHE13].

Allocation
[HS99a].

Almost
[CP15, DL17, FD03, Jah04, NV98, PWZ10].

Almost-Adiabatic
[Jah04].

Almost-Invariant
[FD03].

Along
[ODN17, BBT19].

Alternate
[CJ95].

Alternating
[BF06, CG18, DS14, GKK15, HV96, HRS12, LPS13, LDM00, Lui00, Lui01, NWY10, NWY11, Rak21, RDB16, SL11, SMYS21, Sta94, WY12, WY13, YZ11, YYW18, ZNZ16, Gar96, Li94, ST96].

Alternating-Direction
[BF06, HV96].

Alternative
[JSZ13, May05, Rah13, Wal14].

Alternatives
[HvdV03].

Ambiguity
[BBC+21b].

American
[AO07, GMP19, HY08, HFL11, IT09b, KL11, Toi08, dFL05].

AMF
[GPHAPR18].

AMF-type
[GPHAPR18].

AMFR
[LSPRV21].

AMFR-W
[LSPRV21].

AMG
[BFJ+15].

AMG-DD/AMG-RD
[BFJ+15].

AMG-RD
[BFJ+15].

AMGe
[BP97, BBKL11, DDF21a, Ema10, HV01, IFSJ21, KV12b, LS94b, PS11b, Vasi10].

AMP
[SBHS19].

Ampère
[PTvR+14, TKCC13, DL19, BW09, Fro12, NN19, PBtTB+15].

Amplification
[DMBB10]. Amplitude [AIL05]. AMPS [YPHH17]. AMR [BH17]. Analogue [RT11]. Analyses [MTT15]. Analysis [AV14, AdVC00, AB19, AA00, AKW17, AW20, ABC00, ASZ07, AFC09, ABTZ14, BA05, BHN10, Bar12b, Bar05, BW00, BPB07, BW11, BM05, BBR04, BHL+20, BCM11, BR18, BVV08, BGP94, BHM19, BHM+21, BS06b, BT16, BDS20, BDW11, CKOR16, CLPS03, CH17, CRS+18, CP03a, Cj09, CDF18a, CW97, CFKM18, CGSR20, Cha18, CRS21, CL18c, CV94, CIZ16, CWY17, CG10, CLN12, CAG+19, CHM21, CWG10, CBFI17, CE16, CHKsL20, CSW14, DHL21, DEM+20, Den97b, DJ07, DH95, Di95, DKKP14, DFH+19, DT00, DTM05, DHP17, DKSW19, DMSC18, DP03, DMM19, DMM19, DHE13, DP16, EH18, ES18a, EMT09, FUNB18, FMRR13, FCEZ14, FDI+20, FMB13, GS98a, GV07a, GJS21, GN16, GHL15, GGL09, GLS08, GB06b, GKM07, GKT09, GV07b, HMST11, HMTM15, HRD21, HHvR03, HO96a, HSN+20, HM19a]. Analysis [HM20a, HL98, HLT16, HLNS19, Hôs94, HK95, HV04, Huo08, IHTR12, JM01, JG02, KO05, KSB11, KY03, KGR16, KH18, KRGO19, LQ19, LS17, LRRW96, LNP+07, Le 05, LRP07, LP08, Li09, LSN17, LZZ18, LZ21b, LW15, LS05b, LC05b, LW04, LR20b, LX16c, MPM09, Man95, MRVFI18, MB02, MSA10, MBT21, MEHL16, MW08b, MMS05, MN08, MNZ15, NM13, NN05, OC03, OW02, PMCA15, PVC17, PV15, Re20, RWKW14, RG0Y10, RGG15, RX18, RLC08, SBHS19, SKJ+13, SVO8b, SV11, SNBO8, SD21, SW15, TW13b, TV93, TW93, VXC16, WC03, WL08, WRSZ18, WB00, WOW00, WOO1, WW03, WTB909, WE06, WZ15, WX17, Xie05, YPN+01, YFS21, Yiu05, ZTK19, ZCZ04, ZMS21, ZF09, ZPE12, dLRT09, dRRG19, vGEV07, MP94, SA97]. Analytic [Bar14, KBV09, LCD14]. Analytical [BK04, CFH19, PHA18]. Analytical-Numerical [CFH19]. Analyticity [GJ05]. Analyzing [SAY03]. Anchor [BT08, LT09]. Anchor-Free [BT08, LT09]. Anderson [BCK21, DH21, EMM+99, FZR20, LSV13, SBR06, TEE+17]. Angle [DDF+21b, KR18]. Anisotropic [ABBM98a, ABBM98b, AFMP15, AP99, BS08, BP13b, Ca07, CPB13, CMK11, CDM16, DPF15, DMR19, DFL20, DW05b, DK03, GJS18, ISG15, KLY19, KKR21, LZZ1a, LPP09, MS13, MV94, MP08, MK96, MMV98, Pic03, Pic10, PABG11, Sch08, TLE12, WH15, WYT18, WY19, Win10]. Anisotropically [GHH07]. Anisotropy [BT99]. Anomaly [CK17, CLAT10, CHL16a, CHL16b]. ANOVA [ZCK12]. Antenna [ATV07, Bh07]. Antidiffusive [BCV13, MS98]. Antipersonnel [XK08]. Antiplane [GT98]. Antireflective [CH08b, SC03]. Any [Ain14, AGK18, Bja19, CFC14, PCFN16]. AP [Jin99]. Aperture [BL03a]. Application [AdSGC12, ABdSF15, AKW17, AMH11, ACG20, AH20, AHDK14, AWA+18, ACCP13, BL17, BGL+21, BBH18, BCC20, BG05b, BHL+20, Bla03, BLGL11, BBMR03, BCY21, BDR18, BTGH12, BTGMS13, BG13, BFS08, CGL+12, CCG14a, CTB15, CM98a, CM08b, CH17, C18b, CB18, CHKsL20, DMS+08, DKL+19, DKO12, DCS010, DKS21b, EBSS+11, FVV17, FDFW07, GTMP07, GM21, GSV20a, GG0Y20, GV13, GRL10, GW98, GJ07, GL10, GIC16b, HKA+21, HSS08, Hen05a, HDZ26, HPZ19, HBCS97, Hua05, HTH+16, Hwa07, ISG15, KO15, Kra12, LQ19, LCH09, LSV17, LLS13, LW12b, LW14, LYL+11, LBJH, LCH99, LPP09, MR04, Man99, Mar01, MWBG12, MMV98, OS14, OW00, PGLD96, PS19a, Pel18, PMSG14, Pic03, PQR20, PP13, PS10b, QZ219, RWA95, RDB16, RSA05, SBK13, SCM10, SP02, SO10, SF99, TP18, TET10]. Application
Applications [AE18, AKM14a, ACK19, BF01, BOR97, BTY08, BR09, BC09b, BGMW17, CB98, CER18, CIZ16, CWY17, CL08, CL21, CFM96, CG11, CDW14a, CDW14b, CGMV05, CST16, DEM+20, DF20, DTV13, DGSW10, DMM20, DRW20, DW05b, DSL21, ERSZ17, Ema10, ES00, FMYT16, FKTW10, FFSS13, GaP08, Gar00, GRPG01, GU17, GLW18, HT09, Hri03, Hri05, HiH18, Jia14, JZX+21, JED10, KK18, KR17, KPÇA12, KVKM01, KLL+16, Lee13a, LZ01, LWYxY18, Log03b, LD04, MRFV18, MSL13, MSW05, PH13, RGG15, Rub12, RCLO18, RWK20, SM17, SPS18, SZ06, SY10b, SY12, SW16, SW00, SS03, SS07, Smt07, TPT+16, WS07, WS06, WM05, XZ10, YMM14, ZWH+14, ZWZ19, Zyg11, CC96, LCW95]. Applied [AA13, BLS14, BMV13, CV07, CBS00, DDGS16, DLM16, DHJW08, DHE13, GLOR16, HML+04, HLP08, KM98, MNS07, MP20b, NM13, PKD13, Ser06, VSBH99]. Applying [CHH19, Che16, DJ07, SS10a]. Approach [AK09, AP97, ATV07, ACW12, AB21, ALZ14, AdS19, ALDW19, BCS07, BDM+18, BO06, BC02, BMLS21, BTY08, BHST08, BCX21, BGR16, BP06, CF07, CW14, CS18b, CV94, ICCVEK17, CN10, CH09b, CRV13, CE17, DGS08, DTR21, DMN08, DP03, DCL+21, ELVL17, EK14, EK10, FR10, Fli13, For95, FGH+08, GMP19, GB98, GM20, GKH+08, GLT09, HFLK21, HHvR03, HW03, HTP12, HSTH18, Hor10, HC98, HLSZ13, HSY20, HSSZ09, IT09b, JK12, JR19, JZ13, KV20a, KHE07, KSD10, KY03, KLT06, KL13a, KS15a, KRDL18, KSW20, KZ16, KBP17, LG21, LLP19, LS17, LSLX21, LW15, LW12b, LL20, LW20a, LB07, LB08, MT19a, MFJ19, MKWG15, MO10, MDM15, Mis01, MR18, MM07, NL20, OS14, OB08, PVV11, PSLG14, PQoB14, QGWV17, RWDL19, RS02, SCC17, SB15]. Approaches [TGS08, TPT+16, VS17, VO19, Vog16, WL04, WE13, WBS+17, WP98, Wic17, WB08b, YY18, YMB+18, ZK14c, Zen16, ZC106, ZH09, Zim14, ZVF18, dFL05, dSK11, vdZvBdB10a, vdZvBdB10b, LL94, RG94]. Approaches [CSW14, KY19a, LZ04, SW09, ZLTL13, DS95a, Rot96]. Approximants [GSS12]. Approximating [SS93b]. Approximation [AN17, APZ13, ARM+19, AT19, ADS21, AFRV19, Bad21, BG14, BGMN07, BG08, BW20, BG98, BBKT15, BG17b, BB15c, Bja19, BKS16b, Bör07, BP13b, BHW99, BTGH12, BF07, CGGP19, CGGGS15, CLL20, CZA15a, CNP12, CH08a, Ch07, CSZZ20, CL08, CL21, CKO15, CM95, CE16, CPB19, DU19, DLY16, DB94, DP20, DQQ13, DPAH19, DK21a, DF21, DGB15a, DGB15b, DHO12, EL02, EIJH20, EIL01, FV06, FS05, FNTB18, Fis19, FT03, FD07, GJ08, GSW20, GTKH15, GM18, Gee19, GI17, GN19, GC19a, GOS12a, GG21, GT94, GGO9, GOV06, GCD18, GPSY17, GNPT18, GdLP+18, GNYZ18, HVK18, HLW00, HC18, HR99b, ILW17, IM98.

**Approximation** [KG18, Krn12, KLL+16, KKK18, LMM18, LIW16, LZ18, LSY19, LWW20, LCL18, LYLC21, Mar01, MRT00, MNvST13, MR94, MNZ15, NZZ06, NST18, NJ14, NSK10, PSA99, PPT11, PSSW15, PC17, PC98, QRV21, Rah96, RO15a, RW07, RAT18, SY10a, SY08, SX16a, SX17, SZ00, SP16, Ste99, ST11, Str00a, TE07, TWK18, TYUC19, WR13, WLE00, Wan12, WH15, Wat04, WY09, WSX17, XL18, YSX17, ZKN20, ZRK15, Ain96, AE95, McG95, NT20, NCV06].

Approximation [KG18, Kra12, KLL+16, KKK18, LMM18, LIW16, LZ18, LSY19, LWW20, LCL18, LYLC21, Mar01, MRT00, MNvST13, MR94, MNZ15, NZZ06, NST18, NJ14, NSK10, PSA99, PPT11, PSSW15, PC17, PC98, QRV21, Rah96, RO15a, RW07, RAT18, SY10a, SY08, SX16a, SX17, SZ00, SP16, Ste99, ST11, Str00a, TE07, TWK18, TYUC19, WR13, WLE00, Wan12, WH15, Wat04, WY09, WSX17, XL18, YSX17, ZKN20, ZRK15, Ain96, AE95, McG95, NT20, NCV06].

Approximations [AD19, ABBT+20, BH14a, BKS16a, BKG19, Brui5, CKN20, CAS11, CJ95, CM13, CH101, DD13, DL20a, DSMC18, DF21, EZ11, FLU+20, FWA11, FJHM19, GP99, GHS09, HN19, KMV99, KZ16, LYZ20, RMB00].

Approximative [KKS08].

ArbiLoMod [BEOR17].

Arbitrarily [DS16, GZW20, GHS+09, HN19, KMS09, KZ16, LYZZ20, RM00].

Arbitrary [ADR14, AAD11, AS16, AD18b, ACK19, AI98, BEOR17, CL10, GPSY17, ISS19, JH19, KPS19b, MBGV16, MH16, MYN20, NK10, PP97, RT99, SG04, TC12, WK06, YY11, DB93a].

Arbitrary-Order [AD18b].

Arbitrary-Precision [JM18].

Arc [CDM+13].

Architectures [AHK+17, ABC+14, CP95, DBA19, GV15, Gon15, GKN18, HWD02, LD11, PDE+17, PK19, Pip13, PR96, RTR+16, TD99, YS16, BPT93].

ArcLength [LMR97].

Area [KEF11, PP97, SCDM+10, ZF14].

 ARISING [ABB+20, BGL08, BSSW13, CCQ16, CHH10, FGS14, GH101, GV98, HL10, HZ16, HL17, HLM16, PWN16, PS13, RG07, RH09, Slo02, WW03, ZFwCW15].

Arithmetic [AT15, CJ09, Drm97, GLC21, HJ18a, HP19, HP21, JK12, JF16].

Arnold [CGP12, GK18].

Arnoldi [BS05a, BG17a, DCP11, EPE05, ELM21, GN14, GT94, JMR17, LPS10, MY18, SSW98, TT96b].

Arnoldi/Lanczos [GT94].

ARock [PXYY16].

ARPACk [WT01].

Array [IS17].

Arrays [BBH+16, KK09, ZMQS21, OA93].

Arrival [RMD08].

Assessments [CGP12, GK18].

Assessment [BS05a, BG17a, DCP11, EPE05, EL21, FWA11, FJHM19, GP99, GHS09, HN19, KMV99, KZ16, LYZ20, RMB00].

Asymptotic [AIP19, AT20, AKLP10, BKL14, Bur97, CKN20, CH101, CGK13, CDN16, DGS08, DH21, DLY17, DPS18, GK00, HG98, HT14b, HW14a, JMN01, Jin99, JS10, JW13, JLP18, Kla98a, KH18, LS12a, LFH19, LM08, Liu20, NBA+14, PL21, PDA09, SL09a, SM18, SZW20, TWZ21, WY19, YJ13, BW93, TR93].

Asymptotic-Induced [AKLP10].

Asymptotic-Numerical [GHS09].

Asymptotic-Preserving [AIP19, AT20, AKLP10, BKL14, Bur97, CKN20, CH101, CGK13, CDN16, DGS08, DH21, DLY17, DPS18, GK00, HG98, HT14b, HW14a, JMN01, Jin99, JS10, JW13, JLP18, Kla98a, KH18, LS12a, LFH19, LM08, Liu20, NBA+14, PL21, PDA09, SL09a, SM18, SZW20, TWZ21, WY19, YJ13, BW93, TR93].

Asymptotically [APZ13, BV98, HM20c, WZ18].

Asynchronous [AAC09, FR19, GBC+20, GKL08, HKT01, KN21, LMPQ03, MGB18, PXYY16].

Atmosphere [GKC13].

Atmospheric [BS05a, BG17a, DCP11, EPE05, ELM21, GN14, GT94, JMR17, LPS10, MY18, SSW98, TT96b].

Atomic [CD98].

Atomistic
[OZ16, Sha12, WLLZ18]. **Atomistic/Continuum** [OZ16, Sha12, WLLZ18]. **Augmentation** [KN12]. **Augmented** [AVBTG17, And17, BR05a, BW21, BO06, BW11, CJY16, DGRZ15, DLP21, FMW19, FGO20, FGM08, FL08, HVK18, KS13, OB08, PSLG14, Vog16, Wic17, XXZ20, YPHH17, AF15]. **Augmented-RBF** [AF15]. **Authority** [FLM05]. **Auto** [Der08, MW13]. **Auto-accelerated** [MW13]. **Autoassociative** [SAY03]. **Automated** [BL04b, DJ07, FHFR13, FHFR19, GGOY02, KXS18, MGG19, MBM16, ØLW08, RL13, VR16]. **Automatic** [Bal00, BBR04, BV00, CJK10, CV98, DM16, GM00b, HS18, HBSC97, JK15, PT08, QDKW18, Sar97, SSW18, Sch18, SIS96, XC13, AMB94]. **Automatically** [ADGM98, Gu93]. **Automation** [FCF14]. **Autotuned** [DCP11]. **Autotuning** [HEGH14]. **Auxiliary** [BBH20, CS18b, CS20, Fu21, HSY20, JY21, KV20b, KV12b, Lee13b, LL20, WHCX13, HS21]. **Avascular** [BCG10]. **Average** [DSS20, Kaw17]. **Averaged** [DHE13, GG05]. **Averages** [ADH99, BBT11, KOSB16]. **Averaging** [CP05, CP07]. **Avoid** [May08]. **Avoidance** [AS21]. **Avoided** [BG11]. **Avoiding** [CKD13, DFD+11, FDMD19, GM15a]. **Aware** [AAB+16, ABST13, GMPZ06, LGH+13, Til15]. **Axis** [Zhe07]. **Axisymmetric** [GGZ02, KCL16, Kup98, MCT+05, NIt99, QRV21, Ros05b]. **B** [CML+18b, KFR21, Red99, VHSP20]. **B-Spline** [Red99]. **B-Splines** [VHSP20]. **Backprojector** [DHHR19, EH18]. **Backscattering** [TBKF14]. **Backward** [BM17a, BGS17, BPR16, BRR18, CKOR16, CHM21, DP16, GGL07, GM11, HM20a, HLY13, Kas95, MO10, MTO6, PS02, ZCP06, ZFZ14]. **Backward-Facing** [GM11]. **Balance** [BLMR02, DKDH20, KW10b, SSB08, PSB+06]. **Balanced** [ABB+04, BKS16a, BMMM08, BL05, CCKP21, CCM08, CK15, DEN21, DRFNP07, GCD21, GdLP+18, HSS08, KPS19b, Liu20, LXL11, PN19, TKK16, Gos12b]. **Balancedness** [WX21]. **Balancing** [BMP14, BMP16, BO17, Bas98, Ben01, BM19, GPTV15, KR12a, KG+20, NV05, Ten98, WC00, ZT17]. **Ball** [BT20b, LLZ09]. **Balls** [BLMS21]. **Banach** [NS21, YZ05]. **Band** [BF01, DJP00, GG09, Wil09, CN03, CT94]. **Band-Limited** [GG09]. **band-Toeplitz** [CT94]. **Banded** [Lan19, LNC05, MKSG10, PS18, BW93, Lan93, Tre93]. **Bandlimited** [BR14]. **Bands** [GT98]. **Barotropic** [CDF18a]. **Barrier** [BK20, DMM+16, KM18, Lu95, ZK14c]. **Barriers** [LM21, MJR05]. **Barycentric** [AH18, BHK14, FNTB18, SV13, WTG12]. **Based** [ACVZ12, AGI10, AGSS19, AMM+11, AdVC00, ABC+14, AKA13b, ALLK15, AHT12, ALMR17, AT19, AdWGV+20, AB08b, ABE+17, AWA+18, ADH99, ATK12, ACF09, ADLW19, BQ08, BMN20, BMN21, BF01, BCR11, Bar12a, BCMW20, BMaK19, BS16a, BO08a, BOF16, BN98b, BzCS11, BSS09, BSSW13, BG21, BO06, BW11, B09a, BPS13a, BGPS21, Ber00a, BV20, Ber98b, BCJ+21, BL14, BDvdG05, BI09, BHST08, BG20, BCCK16, BS05f, BZ15, BBT11, BCF+00, BTGH12, BGL06b, BH17, BGMW17, Bu20, CCM05, CL11, CDBH16, CHV+18, CCl21, CQP+17, CB98, CHR02, CGC21, CEJ+10, CBG12, CV07, CKD13, CHP20, CKAK11, CD13, CGM99, CMM00, CC03, CKXXZ18, CD20, CL18c, CCA20, CBS00, ICCVEK17, CJK10, CAG+19, CBF17, CDN16, CSW14, AGJT21, Dk00, DL20a, DMBB10, Doh03, DPW19, DHP17, DGB15a, EHS+05, EOZ94]. **Based** [EOV05, EN08, EK14, EHLW20, FO08, FLX21, FWA+11, Fra98, FV01, FN94, FO07, FLX21, FWA+11, Fra98, FV01, FN94, FO07,
Based [Not12, OS14, PKR +13, PL21, PQOB14, Pic03, Pla98, PMSB12, Rad16, RW21, Rei21, RBH06, RG98, RSW10, RNR13, RS13, RL14, RAV18, ST16a, Sco17, Sha12, SM18, SDN20, SP16, SZP19, SSF16, SU15, Ste00, SL09b, TLN14, TW13b, TCDS21, TAY +19, Tl15, TY15, VHS920, VMM13, VO19, VW94, WWY09, WZET13, WD9 +18, WDGK20, WNC08, WYGZ10, WZSL12, XBC96, YJ13, YBHY15, Yan19, YC99, YZZ19, Yu01, YSZ14, ZBFN17, ZCPM20, Zha07, ZCZ04, ZZY20, ZbAF20, dLRRG19, ABS96, BST08, BBSW15, CMV97, DHO12, FFS07, GKM +17, GJ21, Jam06, MOKS12, NP96, Pir16, RR98, ZD92, ZZ18, ZHL21, GMM15, HS06d, KOB20, RS13].

Bases [CW16a, Peh20a, SLC01, TW03, ABCR93].

Basic [HM20a].

Basic [AB17, AH20, ACN19, ADS21, AD15, BKG16, BK16, BN98b, BLB00, BEEM18, Bla97, BWS20, BM00, CW16b, COS21, CDS98, CHMR10, CG21, CBNO2, DDMQ18, DFS17, Dd10, DP07, DFQ14, DFW21, DHO12, EPR10, EF15, FM12, FP07, FLF11, Gar00, GV12, GD07, HSZ12, JK10, JK15, JP16, KKS13, KR06, KP10, KL13b, LLHF13, LSH17, LQR12, LW19a, LSW17, MR04, MS13, Mir21, NRMQ13, OS14, OS15, Ong97, Pir16, PS10b, PSS17, QGVW17, Ros05a, TLH21, VP14, VW98, WD9 +18, WSK99, WRS08, XD21, YH19, Yan14, Yan18, Zha20, ZH21, vdBFO8].

Basis/Empirical [BEEM18].

Batch [JLXZ21, LZ20, WRB +15, CC96].

Bayes [BJW18a, JZX +21].

Bayesian [APSG14, APSG16, AS18, AWA +18, BCP15, BTGH12, BTGMS13, CCPS20, CPS20, CG21, CBCR14, CS17, DFM14a, DDE +20, DFU +20, FL18, FWA +11, Hei13, HCHS13, HFL +16, JKLZ18, LM14a, LLSX21, LW14, MFSY19, PMSG14, Rei13, SSC +15, SWC +17, VBA18, WBS +17, WBTG18, YG15, YGCP96].

Bayesian-validated [YGCP96].

BDDC [BPS +14a, DPW19, HSB20, KLR14, KLRU17, PW17, Tu07, dVPS +17].

BDF [JLZ17, WZ21].

Bees [GLL +14, GLMN15, KHU96, TW95].

Beam [CL18b, JILGZ20, QZT11].

Beavers [HLM15].

Bed [JMN01].

Beetles [WP98].

Behavior [AD06, DP30, Sama01, Son12].

Bellman [BHT11, HW13, CCFP12, CCF14, DKK21, HW13, KK18, NZGK21, ZHL21].

Beltrami [ABB09, WLZ18, WkZ15].

BEM [CP07, CSS12, DF20, GH02, LS12b].

Benchmark [GGS19, Ni16].

Bend [LFWP08].

Bending [DZ08, L019].

Benefits [MRV06].

Bermudan [ZK14c].

Bernoulli [KG07].

Bernstein [AAD11, Ain14, BWS20, CW16b, CW17].

Bessel [Bal00].

Best [ABD +17, AE95, GK12, SRS12].

Better [CAB04, D’A00, Dal98, JK08, KU096].

Between [ABLM19, BDK06, CCS +19, GP96, PM15, XC20, GJ07, Gro02, KZ16, NS21, RL18].

Beyond [KXS18].

Bezier [CW16b, AAD11, Ain14, AS16, CW17, DP07].

BFFT [RSG17].

BGK [AKM14b, CL10, DY06, DB99, EH21,
KQW04, Xu04, ZZY20]. BGK-Type [KQW04]. Bi
[GJ17, PM03, CGS+94, Zha97]. Bi-CG
[Zha97]. Bi-CGSTAB [CGS+94]. Bi-Gaussian [PM03]. Bi-Lanczos [GJ17]. BiCG [AdSGC12]. BICGSTAB
[CS18a, MPS09, PS08, PS11a, PS11b, WiOH08]. Bifidelity [YZL20]. Bifurcations [EMSW12, GKD05, GM00b, Kus00, KM05, SSH06, SSH06, SS07, SVG10a]. Big
[DJM16, KY14, YYWY18]. Biorthogonal [BB15c, WB00]. Biostatistics [HBSC97]. Biot
[BBD16, BKMRB15, LMW17, PRM09, Ros06a]. Bipartite [ABL+20b, CL21, DHPAH19]. Bipartitioning [AKA13a]. Birthday
[PS97]. Bisection [AGK18, AMP00, CCS97, HO15, LG95, MC09, Man95, ST97]. Bit
[HJLZ18]. Bivariante [HLL07, PH16]. Black
[BM09, FNL+19, JK07, Yav96, IW11]. Black-Oil
[BMM98]. BLAS
[Lan98, QOSB98]. BLAS-3 [QOSB98]. Blast
[DM+16]. Blast-Induced
[DM+16]. Blendepik [AMT10]. Blending
[OZ16, OSCE00]. Blind
[EK14, SX11]. Blobs
[Ros05b]. Bloch
[HJMS07, LZ17a]. Block
[AKA13a, AAB+15b, ABLM17, ABLM19, ADRS95, AP04, BC03, BGY05, BG06, BDJ05, BHL+20, BS06b, BD05, BHK20, Buv21, CGL+12, CGL+13, CMS17, CST+13, CST+16, DFDM19, DI97, DF99, DDS20, DGRZ15, DLP+21, EHS+05, GWG03, GG03, GG05, HS17, HKD13, IM99, JFG10, JF11, JFG13, KR17, KN21, KL05, Kla98b, Ken01, KR01, LK93, Lin16, LSS03, LW13, MSS10, MM95, MM98, MMN00, NP03b, PL03, PS11a, PMH+16, PEC+14, PVC+16, PV15, RHL+21, RKL07, RWWK14, RRW15, RT99, SZ99, Saa03, SR18, SBX+08, SOC16, SH14, Ste08, SFM20, TSK09, TMA18, VV13, WX99, WYYX20, WG20, WL20, Xie05, Xue18, YDF97, Yan19, YFS21, Zie12, dSL05, AM95, CMV97, CS97, FS96, Jin95, RC94, Rote96, CPV95, KALO07, CMV97]. Block-Based
[Yan19]. Block-Boundary
[IM99]. Block-Circulant
[WL20]. Block-Cyclic
[LI93]. Block-Diagonal
[AP04, VV13, dSL05]. Block-Greedy
[LI93]. Block-ILU
[CPV95, CMV97]. Block-Lanczos
[BCR03]. Block-oriented
[RG94]. Block-Parallel
[GG95]. block-partitioned
[CS97]. Block-Preconditioner
[PV15]. block-size
[CMV97]. Block-Structured
[GG03, RKL07, SR18, Zie12]. Block-Triangular
[Kla98b]. Block-Triadiagonal
[BK20]. Blocked
[MV16, Nov15]. Blocking
[Gup17, MHL+15, RTZK+15, SKJ+13, VMV15]. Blocks
[FFSS13]. Blockwise
[CEJ+10]. Blood
[DM+16, DCS010, SZZ21]. Blood-Brain
[DM+16]. BLOPEX
[KALO07]. Blow
[ADKM03, BG15, BWZ10, BHR96, CGK16]. Blow-Up
[ADKM03, BGK15, BWZ10, CGK16, BHR96]. Bluff
[Ho05]. Blur
[NO98]. Blurring
[RG20]. Bodies
[BC01, CSW99, CP13, MP20b, TUV10].
Body [AE18, BBBV13, BOF16, CL18a, CFSZ08, FHH+18, Ho05, JvGV13, Kra09, KL00b, LXZ20, Sha12, SU15, Ten08, XCS16, Ahu96, BME93, BEM04, CSS93a].

Boltzmann [AB08b, BCR11, BYK05, BKK+21, BLM03, CCM05, CL10, CFY18, CLDS19, Cha18, DMM05, Del14, EHY21, Eil96, FMP06, GHHH17, HYC15, HYC16, JS10, JW13, JK00, Lee10b, Lee10a, Lee12, MW03, PR01, QSM19, Rei18, Rei20, SR16, Str00b, ZZY20].

Boltzmann-Based [BCR11].

Boltzmann-BGK [EHY21].

Bootstrap [BBB+11, BBBK11, BK14, KR18].

Borehole [PDTVM08].

Bose [BD04, BSS05c, BLS09, BMTZ13, BR19, BH08, LC21, TCW20].

Botanical [LB07, LB08].

Both [BWZ21, Ros96].

Bottom [BCCX21, GN07, Liu20, SSB08].

Bottom-Up [SSB08].

Bound-Constrained [BCL99, KFR21].

Bound-Preserving [DWQY19, GY17].

Bound/Positivity [HS21].

Boundaries [Lay06, LL97, LXS+08, NP08, PP97, VB07, TR93].

Boundary [AAA+19, ABLS05, AHZ17, AA00, AFF+15, ABIN20, AP97, BAIK11, AP12, AS94, AC95, ADM+15, BHG14, BCR11, BH00b, BV05, BBSW15, Bar14, BW15, BSSW13, BH12, Ber98a, BK06, BM01b, BV20, BBS19, BF95, BT13, BCH12, BIY500, BT713, Brui18, BKS98, BOPG06, BG04, CDBH16, CGG14a, Car07, CGAD05, CP03a, CGZ99, Che98, CH08b, Coa12, CS12, CBF17, DTV20, DB98, DD13, Der08, DKSW19, Dor10, DHE13, DL20b, DK03, DLM14b, Dur16, EO15, EO16a, EJ08, EN16, EM96, EM99, ES17, EN08, EIJH20, FGMP13, FGMP14a, FGMP14b, FJ99, FDS13, FS02, For06, Fro12, GCS19, Gär09, GG19a, GY06, Giv12, GKS98, GPK04, HG02, HHT03, HS05b, HM14, HT16, HO96b, HW09, HM18, IJ99, JL03, JL05a, JK21, JP01, KKV09, KRW20, KP06a].

Boundary [KJL10, KKS21, KLY05, KC16, KP05, KP06b, KW13, KGT07, LS99, LHL12, LOSZ07, LZ21a, LG97, LR20a, LM12, LL11, LZZ18, LP04, LtzT21, LS02, MS07d, Mal07, MP20b, MT19b, MST15, MS07e, MS09, Nas09, NAS13, Nat98, NCT99, NP17, OSU10, ORST12, PL03, Pat97, PATF19, PTT20b, PS19b, PRSS11, Rei20, RH06, RK07, RS03, RSSZ08, SBS98, Sch09, SC03, SW16, Ste00, SD11, TKW08, TT96a, TY00, Tan96, TW03, TP09, Tsy99, VC00, VV05, VG02, Vil09, VPP05, WL04, WMBH19, WFP15, XEG06, XL20, XG16, YC13, YK03, ZXY21, ZZY20, vdZvBdB10a, vdZvBdB10b, AGC96, DR93a, HG96, Rän93, Tsy97].

Boundary-Element [Nat98].

Boundary-Value [ABLS05, BIYS00, Der08, CS12].

Bounded [BHNPR07, Ber00b, DW15b, GMR17, Gär09, GM94, HS06d, KR21, NS06, Nor07].

Bounded-Obstacle [NS06].

Bounded [KOSB16, KTSB19, SB05, Wil09].

Bounded [BS17, Bre00, Cab94, CHMR10, DM16, FGS00, KK13, LQX14, LK21, Mön08, MRL+17, PS02, PDH09, BP04, SDH21, TBO10, Van00, Yan18].

Boussinesq [LRD+04, HHSW11, MCJN94, Yan14].

Box [JK07, KSD10, LM21, MMS05, BH12].

Box-Constrained [KSD10].

BoxLib [ZAD+16].

BPCONT [Der08].

Brain [DMM+16, HDB08].

Branch [Der08, Kea97].

Branch [Li03, RC06].

Breakage [DHS19].

Breakup [BLGL11].

Bregman [BCC+15].

Bridge [VPP05].

Bridging [ABLM19, PKR+13, RDP08].

Brinkman [VV13, XZ10].

Brittle [AFMP15].

Broadband [ERSZ17].

Brownian [CL03, DMR17, HT16].

Broyden [An93, Jar19, YDF97, vNL04].
[KNP01, KPP07, KP09b, KPW17].
Centrifuge [SCS04]. Centroidal
[BGL06b, DGJ03, DW05b, GCN21, JGZ06].
Certain [BGL06a, DMM20, EJJ08, FFS07, IM98, VK15]. Certificate [Yan18].
Certification [Zha20].
CFD [Ema10, HML+04]. CFL [CKQ14, WL01].

Certified [BKGV16, CHMR10, EPR10, GV12, HSZ12, KP10, QGWV17, Yan14]. CFD
[Ema10, HML+04]. CFL [CKQ14, WL01].

CFL-Free [WL01].

CG [BU15, FM99, Zha97]. CG-Based [FM99].

CGLS [CPP+17, HCHS13]. CGLS-Based [CPP+17]. CGMY [AO07, GLW18].

CGSTAB [CGS+94]. Chain [BPB07, CKBT16, EHL06, FVV21, Kus97, WZGO21].

Chains [BBB+11, BKS16b, CE17, CPR11, Day98, DS00, DMM+08, DMM+10b, DMSW10, DMM+10a, GaoP08, KTSB19, SBM07, TY11]. Challenge [EMM+99]. Challenges [DNP+04].

Challenging [LO03]. Change [PP12a]. Changed [ZK14c]. Changing [BCF01]. Changing-Chart [BCF01].

Channel [Hum96, KWW13, VS03, XL20].

Chaos [BDW11, CGX15, DG95, LL94].

Charges [Ama98, LNZ19a, LNZ19b, OAAM00, NSS96, YS16, Ver94].

Chaotic [CD06]. Characteristic [AH06, AW11, BMV05, CD20, DBC13, EAS08, EAS11, FL19, GC16a, MB02, MYN20, OGO13, SSH06, YCN21, Gos12b].

Characteristic-Based [CD20, GC16a].

Characteristics [BBT19, CLK18, EAOS21, WMSG09, YVB98]. Characterization [LM14b, LNA+11].

Characterizations [SVX15]. Charge [Ama98, LNZ19a, LNZ19b, OAAM00, NSS96, YS16, Ver94].

Charge-Conervative [LNZ19a, LNZ19b]. Charged [AE18]. Chart [BCF01]. Cheap [OB05, TP99]. Chebfun
[HT17, RT11, TT13, WJMT15].

Chebyshev [AC08, AD18a, AD19, AD20, BS98, BK10, DKS21a, DS95b, DS97, FP14, GMP19, HT14b, HMAS17, HP14, Jac03, LV94, MR02, PCDB96, She95, TW09, TT06, VS04, Zbi11].

Checkerboard [Lee13a]. Checkpointing [SW09, SW10a, WM09]. Chemical [CVE13, DHJW08, GK13, IP06, Jah10, LNP+07, PS13, YS16, Ver94]. Chemistry [DF21, JSPC97, LCH09, NK15, SZ06].


Christoffel [And08, BT03b, Ban08b, DK11]. Chromodynamics [SO10]. Chronos [IFSJ21]. CIMGs [WGB97]. Cimmino [ADRS95, DGRZ15, DLP+21, TMA18].

Circle [SWU16]. Circle-Valued [SWU16].

Circuit [BJ08, CCCZ10, MT97a].

Circuit/Field [CCCZ10]. Circuits [BBGS13, MS07c].

Circulant [BBGS13, MS07c].

Circulant-plus-Diagonal [NP10].

Circular [AA00, Ama98, GS21, NH12, SM17].

Circulation [TGS08]. Circulatory [KLJ10]. Circumventing [RLG98]. Claims [LCD18].

CLARE [MGB219].

Class [BM08, BCK+21, BCK21, BM20, BB03, BR09, BBM+15, BV16, BV20, CCPF12, CDG03, Che98, DFN12, GS14, GVMM14, HSS08, KA95, Kl98c, KT08, LY21, LO03, LCR20, Meu01, MG12, MW16, Par17, PP12b, Ser06, TW05, Vir07, WZ03, Wat04, Zan16, ZTBK18, Car93]. Classes [VBA18, VK15].

Classical [BH11, BCK+18, BWZ21, DP20, IFSJ21, JP14, TAY+19].
Community [BDHS10, DGHL12]. Commutators [KPPS14, ZLWZ18]. Compact [BDK12, DGLW16, GB12, GCB15, GW04b, GM04, Huc08, KS94, LSW17, LPR00, LMT18, PT08, QNNZ19, SC98, TAHR15, WDG18, XAW17, ZhSpH14, Pel93, PP08a]. Compact-WENO [DGLW16, WDG18]. Compactly [Pla15]. Companion [AVW13]. Comparative [ACD95, BBKK97, CFKM18, GRT05, LL00, LZ04, Ros05b, GMSB16]. Comparisons [Elt96, GZ19, KP11]. Compatibility [AGK18]. Compatible [BHST08, BF10, BCK18, GP99, MNP07]. Compactness [ACD95, BBKK97, CFKM18, GRT05, LL00, LZ04, Ros05b, GMSB16]. Completion [AKW17, ATWK19a, ATWK19b, ATWK20, ACG20, BWB19, Bör99, CGMR05, DFH19, EGLS21, FDH20, GLL01, LGCL21, SYZ015, Tad20, WG12]. Compressive [AK15, HJLZ18, TCDS21, YZ11]. Computable [ABR17, HHS16]. Computation [AP19, ADLR15, AP01, AHHR16, AVW13, BJ10, Bal00, BS96a, BS05e, BAF00, BM18, BLS04, BSV19, BMF12, Bog14, BWS20, BtVC+10, BBK06, BDMFSLO4, CDY07a, CFZS08, CPT05, CBCR14, CV98, CJ99, DS20, DP17, DM16, DLP05, DGP18, Drm97, DGK98, EL01, EltHR00, Fli13, FB19, FDFW07, GH13, GGS19, GS12, GS12, GKM+17, GST12, GST19, GL21, GI99, Gub96, GD03, HT13a, HHLs15, HAG17, Hef05, HKB21, HS18, HKM97, HK02, IM01, Inv02, ISS06, JLY08, JM18.
KB96, Lab05, LCG21, LLHF13, LS94, LX12, LMR97, LH00, LCH99, Lui97, MH16, ML11, NP14, PSDKG13, RO15b, Sch10, Sci95, SLO9a, SWT00, VBA18, WWH17, WT01, XLS18, XD21, ZLBC03, ZZ18, ZLY+18, vVKA11, AD96, BZ93, Tsy97, WM93].

Computational [APS12, AHT12, BB17, BBP13, BH20, BMMR20, BS04, BCG+10, BWZ10, BTGMS13, CHH19, CC98, CHL06, DMM+16, DTT+16, EHW00, EMT09, GGLT00, GM14b, GK05, HP20, HC21, JHJ12, JKR08, KN21, Kou09, Kra08, LCR+16, MW11, NK15, NL20, PMSG14, PDE+17, Rav05, Ros97, SD10, Ste00, TP21, TGS08, TCCK18, Tsy99, TAHR15, Wan07b, Wan07a, WMSG09, ZWH21, Zim14, AP93].

Computationally [DFN12].

Computations [BK07, BP97b, CS94, CDK21, CX08, CSW10, Dul98, Fai03, FLF11, GTK+17, GH07, GCB04, HL95, HJ19, JR96, LKvBW10, MCL19, MRL+17, Nat98, Nie16, OSCE00, SW03, TW96, WRS17, ZCW10, OA93]. Compute [Che16, KR17, TW95]. Computed [HAN19].

Computer [CGDD11, GV15, HKC+04, HTH+16, vdhHCD15, MH95, YGCP96]. Computers [BD+97, HKR02, HW94, Goe97, NP93b].

Computing [AEFM17, AS16, AMH11, AMHR13, AMHR15, Am18, ABB09, ADL+12, AC098, AKB21, ADF+19, AT15, AMB+94, ABL+20b, BBP21, BD93, BCT07, BFKY11, BD04, BL08a, BS09, BMTZ13, BR19, BM12, BMF12, BT20b, BS96b, BGSV15, BGR16, Bru18, CCQ16, CCR15, CAS11, CHJ16, CC18, DR93a, DLY17, DH16, DFD00, FMK19, FGL09, FMYT16, FGM95, FKN+20, GH15b, GWGM03, GTMP07, GMvdV19, GST09, GGGL10, GSR19, GE96, GM96, GM00b, Gug16, HNS08, HV01, HK17, HHL15, IFSJ21, JN10, JSCB20, JED10, JW05, JP11, KV96, KMV99, KMv05, KPÇA12, Ke09, KPU21, LS20, LCN14, LR10, LSU11, LL11, LWZ13, LL20, LC21, LT12, LR98, MV00, Man99, MV16, MB99, MW01, MG12, MvdM21, NH18, OKDSG17, PFS21, PP97, Pet93, PSLG14, PK19, RL18, RM08a, Ros15, RX18].

Computing [SIDR15, SBP04, SBM07, SS03, SXX17, SO10, Str93, Swa02, TS11, TV98a, TWL21, TWW16, VM15, VK15, Wan97, Wat98, WTW17, WTS94, WkZ15, WS15, XS16, XCLQ20, YZ07, YZ08, Zha96, ten95, DS95b, RST93, Tre93].

Concave [LNS96, NNT13]. Concentrating [LL02]. Concentrations [JW05]. Concept [SNB16]. Concepts [GW00, vD03].

Concrete [CST16]. Concurrent [AKBM21]. Condensate [BH08].

Condensates [BD04, BS05c, BL08a, BS09, BMTZ13, BR19, LC21, TWW20].

Condensation [DKL+19, KV20b, SP16, VP14].

Condensed [KV20a]. Condition [AMHR13, AGK18, BH00b, BCH12, BHP98, CCG14a, FH21, GH15a, HLLM15, HR14, KR17, KL15, KL94, KLR98, KKS21, LX08, RL10, SV08b, SV11, WL04, Wan04, Win06].

Conditional [TMM20, YWL21].

Conditioned [BS07, CH17, CCS98, Du16, FKN+20, MFJ19, PS01, WSZ14, Di 95].

Conditioning [BBC07, KR00, SBC93].

Conditions [AHZ17, ABIN20, ABK11, BHV05, BMD016, BV20, BBS19, BK18, BTT13, BG04, CH08b, Coa12, DTY20, Dor10, EO15, EO16a, FJ99, FDS13, Fro12, HG02, HHT03, Her08, JK21, LRD+04, LZZ18, LP03, LS02, MRS04, Mal07, NCT99, NV08, Pat97, QX08, Rei20, RK07, RMD08, RSSZ08, Sch09, SC03, SD11, TVA02, Tsy99, UW94, Ush01, Vil09, WMMK19, WX17, XL20, XW05, HG96, Tsy97].


Conductivity [Du11, EIL+09, Tim19].

Cone [GY05, KO05, ST03, ZYSL15].
Conference [Ben15, MY21, Ben13, Ben17, Tum10, TBC\textsuperscript{+}11, Vas05, Yav19, vdV01, vdVDE\textsuperscript{+}02, vdVDE\textsuperscript{+}03]. Configuration [CL03, LW20b]. Configurations [ACK19].

Conformal [Ama98, DP98, DV98, HQR19, HT09, ISW18, Nas09, NAS13, Por01, SO15, WK18, CDH97].

Conformation [BTY08].

Conformational [MTM08].

Conjugate [ACY\textsuperscript{+}20, ABF96, BMT96, BCT00, BBFJ16, BBFJ16, BCL99, CR99, CB99, GL99, GLC21, HQR19, JvGVS13, Kny01, Not00a, PF12, SYEG00, Spi16, SO97, VP14, NP96].

Connected [DP98, DK11, HQR19, NAS13, NN18, RD21].

Connecting [DDF00].

Connection [GSS12, BP97b].

Connections [KR12a].

Connectivity [BMV11].

Conquer [HLD12, KMR19, LT09, LS13b, NH13, TD99, VXCB16, VTD12, LL93].

Conservation [AB02, AD06, AGH00, BLMR02, BF16, BB19, BPR99, BT20a, BB19, B19, BCG18, CB19, CD14, CW14, CW16c, CLL13, xCWHJ12, CK94, Dk00, DMMO05, DGLW16, DS16, DBSR17, DB07, FMRO6, FK19, FK21, GR05a, GB12, GMS02, HH02, HBL05, HLM\textsuperscript{+}09, HC20b, ISS19, JT98, JSZ13, KL00a, KNP01, KPP07, KPW17, LPR00, LPR02, LLLX16, LD16, LST20, LN03, Mar94, NMAB11, PPR05, PPRs19, QS18, QS08b, SL11, ST17a, Sem10, SMR01, SJD14, TW12, Tor12, TLE12, TW95, VS03, WDG\textsuperscript{+}18, YHQ12, ZD19, ZQ17, dLRT09, BH97, Pem93].

Conservative [AH12, AHR12, AS05, BOB\textsuperscript{+}19, BKM15, BBT19, CH94, yCWHJ12, DS16, Egg18, EL19, FL19, GBCT10, GJ07, LLW16, LW16, LN19a, LN19b, MI21, MRK21, NH14, PPRS19, PM15, Rei18, RG09, STCK21, Sh21a, SL09b, TT20, YHL19, YYY11, ZHQ20, ZCQQ21].

Conserving [AH06, CL97, CD20, DG09, HLMM06, LW12a, MRKR13, vSRV11].

Considerations [CC98, FK97, Moo00].

Considered [Gri94].

Consistency [Lu95, NP08].

Consistent [BPR04, BHP98, BJW18, DTY20, Dor98, DHZ\textsuperscript{+}21, GZW20, HSWW08, LY13, MKW15, PHA18, Sha12, TKCC13, WMU13].

Consistently [BBGS04].

Consolidation [BRBT12, LMW17].

Constant [ABST13, BGM15, BR18, CCS\textsuperscript{+}19, CGX21, DZS99, FGMP13, FGMP14a, FGMP14b, HCRT13, Ren15, SL09b, VMV15, WZ21a, vdaDA12].

Constant-Coefficient [FGMP13, FGMP14a, FGMP14b].

Constituted [FGO20, LKX08].

Constrained [AV14, AEMM16, AOR18, BV03, BH20, BL099, BDKR21, BPS13b, BG05a, BG05b, BU15, BCL99, BDB20, BLNZ95, CCJ21, CKXZ18, CLTX15, CK94, Do03, DS17, DG03, EN16, EFO19, EFO20b, FCC10, GU17, GHN01, GV07b, GKH2, Haz08b, HRT13, HD15, Jy98, KV20a, KB08, KFR21, KP12a, KS94, KSD10, KP12b, LCH09, LST07, MH17, MGB19, MB17, MGDB19, NWY10, PWF18, PR09, PBC05, PC07, QG17, RP01, RDW10, Ros06b, RILW20, SWW08, Vas10, YMW07, YHC16, YP98, AE95, AP93, Dax93, BSS21, GW20, GHKS14, HK17, KB12, KRT21, SB15, PST15].

Constrained-Transport [HRT13].

Constraint [CR04, CLS16, CW06, Chr09, DW05a, KLT16, Le 01, RP01, SSW21, dLS05, dSO21].

Constraint-Preconditioned [dSO21].

Constraints [AB08a, BKGV16, BMP14, BL07b, B1YS00, BLS08, BM19, CGR14, CJY16, CS20, DTY20, GLX19, GRMS09, HS06b, HKLW19, HJL\textsuperscript{+}19, HGZ17, KM11, KPU21, KNV\textsuperscript{+}16, LX14, wLxY00, LPY\textsuperscript{+}21,
MMVW13, Obe13, PRM97, PMSB12, RCC18, TP09, TCC18, WBFA09, ZT17, dVPS+17, DR93a. Construct [BJW18a, GJ21]. Constructed [BS05f, PS01]. Constructing [BT19, CKN06, JK08, NX13, SD10, Wan07b].

Construction [Abg09, AMN15, AA00, ACG20, ACK19, BM10a, BM10b, Bör09, BT019, BT16, DD00, FV01, GCG+19, GS02a, Joe93, Joe95, LM14a, MGH21, MV06, NX0111, PGW17, SY18, SV03, SH01, SLC01, SSB08, XC20]. Constructions [NJ14]. Contact [CSW99, CE020, CHH01, GSV20b, HSWW08, HSW08, KO05, Kra09, PGW12, WL07, WK03, YY18, YSK19]. contacts [LP06]. Context [CRS+18, GKT09, ten95]. Contingent [LCD18]. Continuation [BDF08, Bru18, CC07, CK03, Der08, GKD05, HS16, Kue12, LS13a, LZ99a, LMR97, LC05b, Lu97, Lyo11, RAB+14, SSH06, TVV20, WYGZ10, vNLB04, LL93]. Continuing [DDF00]. Continuity [CM09, CDPC13]. Continuous [ACK19, BB13, BS95, BT04, BBKS20, BJC+21, BB08b, BV00, BG13, CHL20, C8SR02, CE17, EZ11, FEM08, GS98a, GPSY17, HM010a, HSU21, HH13, HRP20, Kim08, KW18, KS14, KK16, KTSB09, MMT15, MS18b, Pa20, SL90b, SW10b, TSK09, XC20, YWL17, ZKN21, BS94]. Continuous-Discontinuous [BB13]. Continuous-Time [BBKS20, BJC+21, KK16, KTSB19]. Continuous-Wave [BS95]. Continuously [GX16a]. Continuum [OZ16, Shi12, WLLLZ18, XJB12]. Contour [HW15, Sch94, iW11]. Contraction [HBSC97, HMvdG18, Mat18]. Contractions [SDH21]. Contrast [EIL+09, HTH+16]. Control [AS16, ATWK19b, AD21, AH20, AFS19, AFOQ19, AV21, Aru12, BKGV16, BBH18, Ber98a, BH11, Ber95b, BG05b, BK00b, BK02, BH08, ByvW09, CP04, CGR14, CF00, CP03a, CK03, CP07, CPT05, CK98, CBDW15, CHH01, Dci10, DZS09, DZ12, DMBB10, DP19, EN16, ELM21, EM96, EHW00, EMT09, FL02, FÖ21, GPS95, GM11, GS97, HS05a, HSB12, HN06, HHW00, HR99b, IR98, KK18, KB08, KLS+15, KL12, KW10a, Ku12, KW15, Kus97, LPS17, LV07, LSTY21, LU17, LL15, LM14c, MS10, MRW15, MP08, NRMQ13, OPR06, OS15, PBP14, PS13, PMSI21, PST15, Rav05, RW11, RW13, RL13, RW06, SMN10, SRW18, SRW18, TUV10, Wan07a, WG12, WL20, Yin95, ZWH+14, ZFvCW15, dCF20, vWFB09]. Controllability [NMS06]. Controlled [vLH14]. Controllers [AK04, Rav02]. Controlling [Rub12, ZSD+10]. Controls [GXY15, HJ18b]. Convected [IR98]. Convection [ABR17, Ber95b, BBM+15, BDK12, BKS98, CLK18, CVK99, CDG+09, DMS01, DT00, DMRR19, FMF98, GR05a, GKV00, GM21, GB06b, GV98, HR99a, Hei96, HY10, JX13, KGM+08, KGM+11, Kol99, KL00a, LE10, LP96, LMR98, LRD+04, LS05b, Lu95, MZ19, Not12, Pol16, TUV10, WX99, WE06, XQX15, ZLS12]. Convection-Diffusion [BBM+15, BDK12, BKS98, CVK99, DMS01, DT00, DMRR19, FMF98, GKV00, GB06b, GV98, HR99a, Hei96, HY10, JX13, KGM+08, KGM+11, Kol99, KL00a, LE10, LP96, LMR98, LRD+04, LS05b, Lu95, MZ19, Not12, TUV10, WE06, XQX15, ZLS12]. Convection-Diffusion-Reaction [ABR17, CDG+09, DMR19]. Convection-Dominated [Ber95b, CLI18, DMS01, GR05a, GM21, HR99a, Hei96, HY10, JX13, WX99]. Convective [HHT03]. Conventional [LZ04]. Convergence [ABF96, BK04, BVW03, BJW18b, CDH98, CH02, CK19, CL18c, DH21, DH95, DKPS17, DV20, EH18, FS02, FP14, GJS19, Gee19, GL07, GG18, GLC21, GKL11, HHSW11, HSN+20, HBS00, IM97, Kol99, KBD21, L02, LN19a, LS05b, LR20b, MS19, MW03, NN12,
PHW19, QS08b, Red99, Ros05a, SO15, Son12, SZW20, SLC01, VL10, Vi09, WMSG09, WZ15, WX17, vdVY00, BY93, HLS93, Lei93.

Convergent [Abg09, BB10, BK08, BM01a, HO18, LWZ17, NN19, Ros96, STY21, TBKF14, WYT18, XK08, YSK19].

Conversion [CC11]. Convert [DTY20].

Convex [AP01, BV03, BW20, FKQS17, HO18, KY19a, LNS96, MK96, OK13, SCDM+10, TV98a, ZKN20, Zha20].

Convex/Concave [LNS96].

Convexification [GPZ17, XK08].

Convexity [LR99, Obe13].

Convexity-Preserving [LR99].

Convolution [ARM+19, Ban10, BSS17, DD13, GT06, GJJ18, HT14a, HS06d, JLZ17, KKT13, LFLS08, LS02, PGLD96, RO15a, RWA95, SLFL06, WX17, XAW17, XL18, ZW03].

Convolution-Diffusion [GT06].

Convolution-in-Time [DD13].

Convolutional [TP21].

Convolutions [AT19, BR11]. Coordinate [CWY17, DZ12, DFD19, DR13, MB13, MHS98, PXYY16, QZZ14, WWYX20, YN+01].

Coordinate-Stretching [DR13].

Coordinate-Update [CWY17].

Coordinates [BMTZ13, BN00, CDF18a, CM98c, HK02, LWC103, PK521, QDKW18, ZWP21].

Coordinatewise [LLW19].

Copper [Ben13, Ben15, Ben17, MY21, Tum10, TBC+11, Vas05, Yav19, vdV01, vdVDE+02, vdVDE+03, Vas07].

Core [ADL+12, GKN18, Ros96, RS99, RTR+16, AGL10].

Cores [BHL+20, ROM18].

Corner [CPS01, DP07, LTC13, SL09a].

Coordinates [EO15b].

Correlation [HSWW08].

Correct [Pat97, ZH09]. Corrected [AW11, BMV13, DR13, RW14, Str95].

Correcting [SX16a].

Corrections [AT20, BV20, BQR18, Bu20, CMM95, CC18, DH95, DT00, DGL+12, FTY15, GXY15, GM20, GX20, Hei96, HXX18, HiH18, JLZ17, KSU14, KRS21, LHR+18, OZ16, SZ06, VC00, WJW21, Wu18, Yav98, LK93].

Correction-Type [CMM95].

Corrections [CWX15, CGX21, HO96b, RS16, SAB14].

Corrector [RC06].

Cores [BHL+20, ROM18].

Cores [CMM95].

Cost [ABL20a, CDPC13, RMC12, SE13, TWK18, UA04, WMSG09].

Cost/Reliability [SE13].

Costs [BSS19, DN97, EAA21, FB95, NRSD18, TTY16].

Covariances [CAB04, GLS08].

Covolume [CKV99, CMSS06].

CP [VMV15].

CQ-Wavelet [DF20].

Couplings [CCCZ10].

Correlation [BE1S9, D997, EAA21, BF95, NRSD18, TTY16].

Covariances [CAB04, GLS08].

Cover [GS02a, HLZ19].

Covolume [CKV99, CMS06].

CP [VMV15].

CPU [BBD18, HEGH14, YTD15].

CQ [DF20].

CQ-Wavelet [DF20].

CR [GT94].

Crack [AFMP15, ACHN21, BCCK16].

Cracks [AKLP10, JLZ16a, ODN17].

Crank
[JLGLZ20, LPP09, Mu97, Tie18, WRSZ18].
Criteria [AGL13, BHvST14, BR05b, Don06, EV13, FS08, GCG+19, INS05, JSV10, SRI+18, WI12a].
Criterion [CMM95, GL03].
Critical [ZHL21].
Critical [BHW99, KM05, LZ01, LZ02, YZ05].
Cross-Entropy [WE13, ZWH+14].
Cross-Entropy [WE13, ZWH+14].
Cross-Valued [VO19].
Crossed [EAA21].
Crossing [JG02].
Crossings [BG11].
Crosswind [WX99].
Crout [LSC03].
Crouzeix [HM20c].
Crowding [Ban08b].
Crystal [AAB+15a, AEMM16, CS94, Fli13, GX16b, HLM16, JSCB20, PV15, RG13].
Crystals [CS94, CYZ17, MMRN15, RS00, ZYLW16].
CSE [DJM16].
CSP [HG98].
CT [RKW20].
Cub [AB08b].
Cub-Octahedron [AB08b].
Cubature [CZ13].
Cube [BHW09, CD15a, GMSB16].
Cube-Partition [CD15a].
Cubed [TDTF03, YCC10].
Cubed-Sphere [TDTF03, YCC10].
Cubical [BFK05, EL20, MS07d, TV98b, Zha18a, AE95, HHRV93].
Cuda [DARG13, Hog13].
Cumulant [DGP18].
Cur [KG18, SE16].
Cut-Cell [LTzT21].
Curv [Mir21, ACD+08b, BWV15, BH97, BI09, BK14, BIA09, BIA05, Bur97, CMV97, CP13, CWL+14, CCC18, CD01, CDB13, CGX21, CMSS06, CH11, Don06, FMW19, GH13, GV16, GD03, HA01, HHLZ21, KV07, KAU18, KPO6a, KC16, Kra09, NV+16, LR07, LS12b, LFS14, LYL+11, LW03, Min02, NNO3, PAT19, PTT20, PS10b, PGW12, PELY13, PRS11, RL18, RH06, Sna01, VB07, ZWC19, ZNZ16, ZND18, ZCW10, vK1A11, vDSF21].
D-RBF-PU [Mir21].
DAE [CLPS03].
DAES [Bar05, ABST13, AL07, SBS98].
Dags [HRS10].
Damage [BA05].
Damped [BV09, EKLs+18].
Damping [EDGL12, HWZ19, Kol99, WW12].
Dantzig [FXL21, WY12].
Daphnia [BGSV15].
Darcy [EZ11, ACL09, AHT17, BT13, CDF18b, CSL16, GHMY18, HLLM15, LTW18, VY09, ZS10].
Darcy-Flux [EZ11].
Darwin [LM15].
Data [ABKS16, ATWK19a, ATWK19b, ATWK20, AVBTG17, ACLZ15, AKM+14a, BDS98, BL03a, BLS06, BG10, BB08a, BzCS11, LNS96, MK96, MV06, SL20, YH17, YH19].
Curvilinear [AORW20, BS03, CHW17a, CFJT18, CM98c, DKR12, GHTW00, HLW13, KP12b, PKS21, War13, ZWP12, Zie12].
Curvilinear-Orthogonal [Zie12].
Cut [BCM15b, CC1N20, FTS18, GSM20, LYZ20, LTzT21].
Cut-Off [LYZ20].
CutFEM [BE+19, CBK18].
Cutting [DP07, JED10, Pet99b].
Cycle [Wer98, KSB11, Kwa99, VL10, BGP94, TW93].
Cycle-Convergence [VL10].
Cylindrical [HW15, LCH99, She97].
Cylindrically [WM93].
Ber00b, Bör09, BT20a, BBC+21b, BZ97, BGR16, BFI07, CBH19, CHL20, CPT05, CH09b, CKLN98, CEC17, DG08, DNM16, DG17a, DFH+19, DMM18, DMM19, DSS13, EPSU09, FDH+20, FS12, FS13, GLS08, GS12, GPA18, GH14, GMP06, HMST11, HKC+16, HH99, HKC+04, HM20a, HK20, Hö94, IS17, IA14, ILW17, JL19, JLZ16b, KT14, KLN20, KYS14, KLN20, KYP05, KHW+14, KP07, LOSZ07, LMM18, LR99, LNS96, Li99, LSLX21, LSZ13, LB07, LB08, MZW09, MDC08, NNT13, PS18, PGW17, Peh20b, PK16, PCL16, PDC99, PS12, PJ96, QCX21, RSNNR17, RL08, RDB16, RNR13, RG20, SX16, SX16a, SX16b, YS16, ZCC16, ZFHS15, Zim20, DR93b, Gu93.

Data [TZ18, TP21, TBKF14, Til15, Wil09, WQX20, XMRI18, YCZ13, YS16, ZFHS15, Zim20, DR93b, Gu93].

Data-Assimilation [TZ18].

Data-Bounded [Ber00b]. Data-Driven [CBH19, GPA18, HC18, HK20, IA14, PGW17, QCX21, XMRI18, BBC+21b].

Data-Noise [BG10]. Data-Parallel [CKLN98].

Data-Quantitative [ATWK19b]. Data-Sparse [BB08a, Bör09, LOSZ07].

Database [HBJ04]. Datasets [YYWY18].

Daubechies [Jam96]. Deconvolution [Bar99, EK14, DG95].

Decoupled [AHN+20, GHMY18, HZXC16, KS14, SRS19, SY14, Ske00, Yan21, ZHY21].

Decoupling [LC05a, LC08, Sch02, WNC08].

Dedicated [DM+12].

Deep [BBC+21a, CLL20, GJ21, LCG21, LMR21, NZGK21].

Defect-Correction [DH95, DT00].

Deferred [PSB+06].

Defined [DPF15, Is20, MT19a, MFSY19, PHA18, ZHY21].

Dec camping [ABLS05, AK17, ADGP07, AK04, BMP14, BMP16, BO17, BDD+97, BDHS10, BJNN02, BL04a, BFJ+15, BLB00, BCLT15, Bet08, BLP14, BF95, BFK03, BEKM16, BT13, BIA05, BCY21, BHM19, BDG20, Cai95, CMS94, CGM+21, CD98, CBS00, CCG14b, CGHT14, CML+18a, CML+18b, DU19, De12a, DM13b, DT95, Den97a, Den97b, DW17, DKK21, DW94, FV21, FKK+14, Gar94, GKNW18, GLMN15, GBC+20, GJM94, HML+13, HLLM15, HIT19, HN06, HKLW19, HHHK19, HM14, HS06c, Hes98, HLR18, HJMS07, IW14, JFG13, JKKM01, JCL07, JS10, KX18, Kal20, KU18, Kla98a, KW00, KLR15, Kus97, Lar99, Lee13b, LN17, LPP19, LJ19, LW15, LT20, MRS04, MPRW98, Mur01, MR94, M195, MZ19, NH13, NRS18, OT11, Ose11, PNL+21, PHY20, PS10a, PDG20, PL12, PK19, QSM19, QSV06, Rav02, RL10, RSS18].

Decomposition [Rei21, RGG06, SM+15, SMYS21, SAY03, ST98, Ste99, TNL14, TS11, VVM12, VMV15, WG00, YCC10, Y01, YSS07, YYY11, ZT17, ZND18, ZBK18, ZS02, Ain96, ALT93, BD93, BZ93, BR95, Ca93, DS95a, Hes97, Nat95, Nat97, S93c].

Decomposition-Based [CBS00, JS10].

Decompositions [CP17, DH16, DMM18, Hö94, LZW13, Rah13, RDB16, VDD19, YR08].

Deconvolution [Bar99, EK14, DG95].

Decoupled [AHN+20, GHMY18, HZXC16, KS14, SRS19, SY14, Ske00, Yan21, ZHY21].

Decoupling [LC05a, LC08, Sch02, WNC08].

Dedicated [DM+12].

Deep [BBC+21a, CLL20, GJ21, LCG21, LMR21, NZGK21].

Defect-Correction [DH95, DT00].

Deferred [PSB+06].

Defined [DPF15, Is20, MT19a, MFSY19, PHA18, ZHY21].

Decamping [ABLS05, AK17, ADGP07, AK04, BMP14, BMP16, BO17, BDD+97, BDHS10, BJNN02, BL04a, BFJ+15, BLB00, BCLT15, Bet08, BLP14, BF95, BFK03, BEKM16, BT13, BIA05, BCY21, BHM19, BDG20, Cai95, CMS94, CGM+21, CD98, CBS00, CCG14b, CGHT14, CML+18a, CML+18b, DU19, De12a, DM13b, DT95, Den97a, Den97b, DW17, DKK21, DW94, FV21, FKK+14, Gar94, GKNW18, GLMN15, GBC+20, GJM94, HML+13, HLLM15, HIT19, HN06, HKLW19, HHHK19, HM14, HS06c, Hes98, HLR18, HJMS07, IW14, JFG13, JKKM01, JCL07, JS10, KX18, Kal20, KU18, Kla98a, KW00, KLR15, Kus97, Lar99, Lee13b, LN17, LPP19, LJ19, LW15, LT20, MRS04, MPRW98, Mur01, MR94, M195, MZ19, NH13, NRS18, OT11, Ose11, PNL+21, PHY20, PS10a, PDG20, PL12, PK19, QSM19, QSV06, Rav02, RL10, RSS18].

Decomposition [Rei21, RGG06, SM+15, SMYS21, SAY03, ST98, Ste99, TNL14, TS11, VVM12, VMV15, WG00, YCC10, Y01, YSS07, YYY11, ZT17, ZND18, ZBK18, ZS02, Ain96, ALT93, BD93, BZ93, BR95, Ca93, DS95a, Hes97, Nat95, Nat97, S93c].

Decomposition-Based [CBS00, JS10].

Decompositions [CP17, DH16, DMM18, Hö94, LZW13, Rah13, RDB16, VDD19, YR08].

Deconvolution [Bar99, EK14, DG95].

Decoupled [AHN+20, GHMY18, HZXC16, KS14, SRS19, SY14, Ske00, Yan21, ZHY21].

Decoupling [LC05a, LC08, Sch02, WNC08].

Dedicated [DM+12].

Deep [BBC+21a, CLL20, GJ21, LCG21, LMR21, NZGK21].

Defect-Correction [DH95, DT00].

Deferred [PSB+06].

Defined [DPF15, Is20, MT19a, MFSY19, PHA18, ZHY21].
PV08, RL18, RS03, Say15, Zhe07, BGP94.

Definite [ARS21, BGLY05, BGM13, FEM08, GM17, HP21, JFG10, Lan19, MV00, MB99, Ng00, Pla15, SO18, VSS14, Zha96, FS96, FF94, MO21].

Deflated [ARMNW10, GGPV10, JvGV13, Mor02, RF07, SYEG00].

Deflation [SO10].

Deflated [ARMNW10, GGPV10, JvGV13, Mor02, RF07, SYEG00].

Deflating [SO10].

Deflation [ARS21, BGLY05, BGM13, FEM08, GM17, HP21, JFG10, Lan19, MV00, MB99, Ng00, Pla15, SO18, VSS14, Zha96, FS96, FF94, MO21].

Deflation-Based [FV01].

Deformal [ARB08, KRDL18, PRM09, Ros06a].

Deformation [GKT09, MGDB19, PWGW12, YSK19, de 99].

Deformations [DZ08, EHLW20].

Deforming [Ros05a, Ros05b, TK13, ZH920].

Degenerate [BCF12, BBM98, CLST03, CHL06b, LSZ11, Slo02, WY19].

Degraded [NO98].

Degree [Ash95, DEV16, Gre03, Hok20, IMS96, NP17, SV11].

Degrees [HHL07, Lin06].

Degree [HHL07, Lin06].

DEIM [SE16, WSH14].

Delaunay [CWL99, CC06, CC09, CC12b, DV98, FCC10, Gør09, GPM14, Joe93, JGZ06, L05a, L06].

Delay [BP97a, BM05, C015, ELtHR00, HV04, HX11, HXB13, JMM10, Kus00, May08, SSH06, TSK09, WRSZ18, ZCZK14, ZPE12].

Delay-Dependent [HV04].

Delay-Differential [SSH06].

Delays [HV04, PvdVvG17, SE11, SE13, WZ21a, XZB11].

Delta [JD14, Wen08, Wen10].

Deluxe [BPS98a, TZ17, dVPS98a].

Denoising [AKM98a, CI911, FHFR13, WX05].

Derivative [AMHR13, ACG20, BrVÇG99, CAG19, CZ15, FF15, HR14, HBSC97, IT14, KR17, MGG19, NL16, SPKB13, X913, DS95b, SS93a].

Derived [ATWK19b, CL03, LM00].

Deriving [DO11].

Descent [AS21, DFM19, LLW19].

Described [AKM14b, GLT18, GPS95].

Describing [MK96].

Descriptions [GZ19].

Descriptor [GSW13, HSS08].

Design [APSG14, APSG16, AS18, ACLZ15, BFI07, CM98a, CM98b, CGGD11, DKKP14, DW17, EHS89, CS12, HOY03, HRP21, HA520, HMR09, HRS10, LPSB17, LD04, LPY99, MEHL16, PTvR99, RTBAI21, RCC18, SRS19, ST03, TCCK18, XZ14, vHCDD15].

Designed [BEOR17, KKN18, KKN21].

Designing [CCO11, Huc08].

Designs [HRP20].

Desingularization [HLS93].

Detailed [HS16, YS16].

Detecting [CE17, FD03, VP11].

Detection [ACY92, AFMP15, BS95, BBC95, CGKM16, CD06, DJ17a, DGLW16, HMDM18, HA08, LS09, MRL97, VR16, WD99, ZLW18].
Detectors [AdSK19]. Determinant [CG18]. Determinantal [PH16].

Determination [Jac03, JK15, NH14, SCC17, XC13, Sar97].

Determining [BIK02, CWD13, GJ05, HHP21].

Determinant [CG18]. Determinantal [PH16]. Deterministic [CCM05, FS12, FS13, Kue12, LTT16, Ros96, WKKP13, XZ14].

Deterministic-Stochastic [FS12, FS13]. Deterministic/Monte [WKKP13].

Deterministic-Stochastic [FS12, FS13]. Deterministic/Monte [WKKP13].

Deterministic [CCM05, FS12, FS13, Kue12, LTT16, PDG20, Ros96, WKKP13, XZ14].

Detonation [BJ01, BBH15, DWQY19, HLW00].

Detonations [COZ96]. Developing [LHL11, Wal18]. Development [DMBB10, LZ99a, PV15, TKCC13, WL01, CSS93a].

Deviatoric [Rei20]. Device [FFMT96].

Devices [BBGS13, BG07, BBH15, RWA95].

Dewing [ZJB20].


DG-Interpolation [ZH20]. DGTD [LSV17]. Diagnosis [BT00b]. Diagnostics [Str93].

Diagonal [AKA13a, AP04, Cas97, NP10, PKNS14, Saa05, TS11, VV13, dSL05]. Diagonal-times-Toeplitz [PKNS14].

Diagonalizable [HLTT97].

Diagonalization [BOR97, GHR99, SBR06, WZ19].

Diagonally [CEHN08, KW15, QS08a].

Diagonals [DHHR09]. Diamond [MHL15, MW15]. Dielectric [GJLX16, MG11, XJS12, XJS13].

Diffeomorphic [MR17, MB17, MGDB19].

Diffeomorphisms [CM09]. Difference [AH18, ACHZ21, BOB19, BS04, BM10a, BM10b, CC21, CZZK16, CLTX15, CFJT18, CGX21, Dar21, DGLW16, FV06, FO19, FS02, Gas13, GHST98, GLW18, GW04b, GM04, HZ11, ILK05, IT09b, Jia14, JZ13, JSZ13, JZ00, KP09a, KW16, Kup01, LNP15, LSW17, LN03, LW03, LSZ11, LP03, Lu95, LK98, MC10, Min02, MR18, NN03, Not00b, OL98, OSCE00, PKD13, Q503, RU01, RLC08, Str99, TB99a, TW05, Tie18, TLH21, Wan04, WB12, WDG18, WLZ18, WP19, WDGC20, Yan02, ZLLT13, ZWP21, ZLJ96, Zin00, dVM08, Elt96].

Difference-Quadrature [AH18].

Difference/Element [LLTT13].

Differences [ADK98, BBHJ21, Hun96, JBH20, Kwa99, RMR15].

Differential [AC08, ACVZ12, AVZ13, AW15, AS94, BP97a, BKN02, BS96a, BBH18, Bea20, BCM05, BB03, BBC07, BMV05, Bre17, BHP98, BHW99, BOPGF06, BB02, BLM07, BDW11, CG18, CG95, CB98, CLPS03, CP04, CZK15a, CZK15b, CZZK16, CG14a, CGX15, CKK03, CG14b, CMN95, CRV13, DL19, EPR10, EF15, ELtHR00, EM99, FBF15, FGH18, GASS98, GGS03, GK93, GLT18, GB98, GPS95, GRPK19, GW00, HO18, HHS18, HTMM15, HH13, HJ98, HLS98, HO94, HO96b, HVW95, HV95, HRS19, HHL07, HG00, HV04, HXB11, HXB13, IM99, JBH20, JL03, KK13, KKN21, KZK17, KS20, KLR15, KCB17, KW15, KMRW97, KR12b, LL17, LCH09, LU17, LV20, Lee09, LMW15a, LE17, LLS13, LCD18, LN05, LPR98, LJ17, LZ20, LZ13a, ILN21, LCH09, LCR20, MPS18, MR09, MGG19, MGB18, MB00].

Differential [MPW18, McL95, MT97b, MT06, Mis01, Moc00, MS07c, MTBT17, NT18, PRM97, PP12b, Pul08, RPK18, RMB00, RF10, RNR16, Rim18, RW06, RWX07, Sch98, Sch05, SE11, SE13, SWX16, SB05, SSH06, TSX17, TSK09, TS14, Vil14, WL08, WMMK19, WH13, WC17, XK02, XH05, XT06, YZK20, YR12, ZKZ15, ZMK17, ZTBB18, ZTRK14, ZCP06, ZFZ14, ZHL21, ZP12, ZVK99, Zy99, bZOW07, AGC96, AH18, Bae93, BHP94, Gre93, HHR93, Lam97, MT97a, MS93a, ZV05].
Differential-Algebraic [AS94, BHP98, CLPS03, CKK03, GB98, GPS95, GW00, HTMM15, KMRW97, MB00, PRM97, RMB00, Sch05, BHP94, MT97a, MS93a].

Differentiation [ALLK15, BBR04, BV00, CV98, CJ99, GM00b, HBSC97, KLZ06, LLHF13, LKvBW10, MB00, PT08, XC13, AMB14, Jan96].

Diffraction [HSSZ09].

Diffuse [FKQS17, JLY08, KdS05, KSW20, QS14, SKMF15, dSK11].

Diffuse-Interface [KSW20].

Diffusion [ADR14, AN17, ABF99, ABR17, And17, AWA18, AH12, AKM14b, AM05, Bar12b, BG98, BPR13, BBM15, BDK12, BW01, BK98, BHK12, BG04, CK17, CNP12, CH08a, CDF18a, CMK11, CD15b, CLST03, CKV99, CDG09, CFM96, CE16, CHL16a, CH16b, DMRR19, DMSC18, EO15, EF16a, EFM09, FMYT16, FMM08, FDE06, FL19, FJHM19, GW15, GKV00, GH07, GB06b, GT06, GV98, GGS08, GLW18, HC98, HP14, HSMT20, HKM20, Hen05a, HLT16, IP06, JX13, JLY08, JLZ16b, KGM08, KGM11, KBR18, Kla98a, Kla99, Kl00a, KL11, LS12a, LP96, LMR08, LR12, LSW17, LM08, LW12b, LS05b, LSV13, Lu95, LX16c, MRR1, MRR19, MEHL16, MO10, MZ19, MPS09, Not12, PKNS14, PW16, PDH09, PS08, PS13, PP05, Pol16, PC98, QNZ19].

Diffusion [RC06, RNV17, SBP04, SRS12, SWN20, SY08, SYY99, SM94, SS21, TTM08, TK13, To06, TUV10, TM14, TW17, UEE12, VS04, WXK04, WDE99, Wan07a, WB15, WH15, WRSZ18, WY18, WDGK20, WE06, W221b, XQX15, YTLL11, YCN21, YCY19, YYY11, Zbi11, ZJC12, ZRTK12, ZHZ17, ZTM16, dLF05, ZLS12].

Diffusion-Advection-Reaction [Zbi11].

Diffusion-Driven [YCN21].

Diffusion-Reaction [EO15, EO16a, VS04].

Diffusion-Wave [JLZ16b].

Diffusions [DMR17, JKLZ18, KOSB16, ZWH14].

Diffusive [CM09, CILZ15, DPS18, GM20, JLP18].

Diffusively [BMV13].

Digital [Gu93].

Digits [Nik13].

Digraphs [MZW09].

Dilute [KP10].

Dimension [Ain14, AS16, AGK18, BS05a, CM98a, CKLL16, DSRMK17, FK21, GBCT10, HC95, IT14, KS18, LZW20, LYC17, MR07, NG18, OB21, PDSF12, Red99, RT99, SvG10a, SD10, WS05, WW17, ZCPM20, ZP18].

Dimension-Independent [CKLL16].

Dimension-wise [OB21].

Dimensional [ABC16, APSG14, AS18, AILP07, AO17, AHR12, AGPR19, Ar12, AS16, BT06, BKK97, BBSW94, BMRR20, BLAS19, BK20, BP06, BH20, BTWG08, BTGMS13, COZ96, CL18b, CHR99, CLH0, CG02, tVCAU10, CV18, CCL20, CGJX15, CC09, CL08, CAG19, CJ95, CGM00b, CST13, DFS17, DD00, DTR21, DF20, DL19, DSRMK17, DF99, DSZ13, DHZ18, EdPD09, FCC10, GJ08, GP06, GKC13, GC19a, GGL98, GB06b, GT06, GV98, GH14, GC16b, HHS15, HM98, HJ07, HZXC16, HRT03, HRT13, HC98, HR90c, HSW08, Hun95, Hun96, HPMM14, ISW18, JK07, Joe95, JK08, JP01, KL06, KL10, KR06, KS17, KS15a, KWG20, KP17, LL98a, Le09, LP08, LS95, LCA08, Lem16, LB15, LY16, Liv08, LSRP19, LD04, Mac98, MRR1, MV09, MAB07, MXY16, MRR19, MB13, ML11].

Dimensional [MZ94, MM00, MOC08, NKLW94, NZGK21, NJ14, NS06, NMA11, OS14, Pech20b, PNP13, PVK16, PM16, Pet99b, PSMG14, PP13, PM15, Rak21, RRR03, RT01, RW07, RF10, Rim18, RDP08, RO12, Sch02, SB16, SY10b, SY12, SW16, SM94, Sma04, Ste16, SJ14, TMM20, TCG99, Tsy99, Ush01, Vil09, VS03, WXK04, WS05, WMC12, WB12, WBTG18, WWM3, WO98, WCHZ14, Wen08, Wen10, WSX17, XBC96, Xu04, XW05, Yam02, YHQ12, Yu01, ZSpH14, ZHL21, bZOW07, vdHCD15, APSG16, DKK21, El96, ED95, Joe93,
Dimensionality [ABTZ14, GH14, OT09, Sma04, ZZ04, ZCC+16]. Dimensionally [MS20]. Dimensions [ABMR11, ABI0G16, AA02, BK99, Ber95b, BGH19, Ben05, BM05, BBMR03, BKS13, CM98b, CP07, CD20, Dk00, DS14, DK03, EZ11, EG01, FK00b, GGLT00, GK98, GC97, GML+21, HT17, HKKR19, HKLW21, HS94, JVG12, KKN18, KKR16, LAG14, LL19, Leh15, LCY+20, MBL15, MLL13, Moo00, NX12, NH12, Ong97, OT09, PV08, PWS10, Pek12, PSSW15, RRR05, RR98, Sha12, SWT00, TCCZ19, TT13, Tu07, WS07, WDE+99, WG18, WLLZ18, XB16, YTLI11, ZF14, ZWZ19, ZXY21, ZJB20, aKT18, Cai93, EOD93, HHRV93, MSS12, Smi93].

Dimer [YZZ19, ZDZ16]. Dimeric [WI12a]. Dipole [Rah96, WK+07, vWBV09]. Dirac [AOS20, BK14, FKK+14, Rub12, SJD14]. Dirac-Delta [SDJ+14]. Direct [ALM19, ASS16, BACF08, BM95a, BIA05, BH14b, COZ96, CCC17, CKXZ18, CILZ15, CI1Z8, CHZ21, CDP17, DK10, DAE02, GHRR19, GG19a, GM14b, GKS19, GC16b, GC17b, GC17c, GW04b, HA01, HS19, HT17, HHE10, HH02, HSM19, HRD21, HHvR03, HLT16, HS01a, HS18, HS99c, HX11, HX13, HC20b, JWH08, Kan03b, KSM18, Kim05, Kim08, KG14, KT08, KO13, LM20, Li01, LLLX16, LS19, LST20, LY20, LY14, LX16a, LSZ17, LK98, LCK21, MN07].

Disaggregation [KV13, DS96]. Disappearing [APZ13]. Discontinuous [ALRT17, GM14b, LS94, RH06, TB02, WL97]. Discontinuity [DQQ13, IT14, LCH09]. Discontinuous [AB17, AM19, AGH13, AFRV19, AM20, ACCP13, BB13, BBHJ21, BDGK18, BCS11, BBT19, BDK12, BM11, BKBT18, BG04, CDG17, Cas02, CNP12, CKQ14, CDF18a, CT03, CW17, CHW17a, CHW17b, CMS17, CD02, CVK13, CHH10, CDG+09, CS16, CGP19, CKRS07, DEM+20, DLM16, DMRR19, DGK21, DF99, DHE13, DWQY19, EKSW15, EHL17, EIL01, FMR19, FDS13, FRS19, FHL13, FK21, GKRNS19, GKL1a, GvD17, GH17, GL08, Gia18, G19, G19b, GH19, GX16b, GC16b, GC17b, GY17, GX20, GSW20, GW04b, HA01, HS19, HM17, HHE10, HH02, HSM19, HRD21, HHvR03, HLT16, HS01a, HS18, HS99c, HX11, HX13, HC20b, JWH08, Kan03b, KSM18, Kim05, Kim08, KG14, KT08, KO06b, KW18, KO13, LM20, Li01, LLLX16, LS19, LST20, LY20, LY14, LX16a, LSZ17, LK98, LCK21, MN07].

Discontinuous [MRFV18, MMT15, MRRK13, NP17, ORST12, OLW08, PCFN16, Paz20, PTV20a, PP08a, PP08b, Pet05, PRSS11, PoH09, QS18, QS05a, QS05b, QS08b, RM12, RG09, RSA05, SSDN12, Sch08, SKW18, SSR12, SD19, SH20, TLL19, TCC19, War13, WWM03, Whi15, WS18, WX21, XQX15, Xu04, XS08, XM10, YHL19, YCS16, ZKN21, ZK14a, ZCK14, ZCL+11, ZP18, ZWG21, vSRV11, vDVX19].

Discontinuous-Coefficient [DF99]. Discontinuous-Continuous [Kim08]. Discrepancies [GPS12, MC94]. Discrepancy [CZ13]. Discrete [AP14, AN16, AB08b, AKM14b, ACD+08a, ACD+08b, BK19, BT06, BST08, BPS13b, BPS13a, BSV19, Bu97, CHKM13, CS10a, CW13, CHe13, CW14, CW16c, CYDK21,
Discussion [ABBM98b]. Disease [BF13].
Disk [TC99, WTW17]. Dispersion
[ALLK15, CGX21, DW15b, GK11a, Le 05, MRFV18, VSBH99, XS08, MP94].
Dispersion-Dissipation [MRFV18].
Dispersionless [ABL20a]. Dispersive
[DLM16, GMO14, LSV17, LHL11, PS10a].
Dispersively [APS12]. Displacement
[GY17, LY98, QRV21]. Displacements
[AD18b, HH13]. Disruption [DMM+16].
Dissection [GBD10, HR98a].
Dissimilarity [GLT09]. Dissipation
[AK11a, GMS02, MRFV18, Roe98, TYZ19].
Dissipative [AHZ17, CEOR18, CDGT01, GMO14, HX21, HS21, LSU11, LW16, Mal07, Sha21b, Sha03, WS95].
Distance [BrVC+10, CS11, CSS12, FB19, Gro02, LL17, RL18]. Distance-2 [BrVC+10].
Distances [BBK06, LYLC21]. Distillation
[And99, ZYZ05]. Distinct [FBF15].
Distorted [SY08, SYY09]. Distributed
[AKK14, AKK18, AK04, ABL+20b, BKGV16, BDD+97, Bar12b, BBGS13, BCF13, BTY08, BrVC+10, BFJ00, CCPS20, CHJ16, DS16, DGRZ15, GY06, GKK10, HKR02, HWD02, HV04, HL18, IBWG15, Kam99, KZK17, KL12, KZ16, MGDB19, PR96, Rag95, SSS99, SE13, Sun96, TZ18, TD99, WMD07a, XXdH+17, Lin93].
Distributed-Memory
[ABL+20b, BrVC+10, Gon15, MGDB19, PR96, Sun96, XXdH+17]. Distribution
[AB02, ADR14, AT17, ALMT20, BLH02, BV16, DGS08, HHP21, KK02a, KB96, Lu15, OAA20]. Distributions
[BSHL14, BT20a, CS14, Gub96, KTSB19, Man99, MF90, PF12, SM07, SK19, TM20, XC20]. Distributor [HL19]. div
[DMMO05, Doh21]. Divergence
[ABN21, BF14, DFW21, MS06a, Sch02, TZ18, Tor05, WWY09, XZ10].
Divergence-Free [ABN21, DFW21, Sch02, TZ18, WWY09, XZ10].
Divergence-preserving [Tor05]. Divide
[HLD12, KMR19, LT09, LS13b, NH13, TD99, VXC16, VTD12, LL93].

**Divide-And-Conquer** [KMR19, LT09, VXCB16]. **Dividing** [Hum96]. **Divisible** [IK10]. **DIVMD** [DMM20]. **DMPlex** [HKA+21, LMKG16]. **DNS** [BCM15a, Hof05]. **DNS/LES** [Hof05].

**Domain** [ABLS05, BMP14, BMP16, BO17, BJNN02, BL04a, BFJ+15, BLB00, BRT07, BCLT15, Bia98, BCC16, BKG19, BT13, BMH19, BDG20, Cai95, CMS94, CGM+21, CHL06, CCV14, CCG14b, CHL06, CCV14, CCG14b, CML+18a, CML+18b, DD13, Den97b, DLM16, DS95a, DW17, DSZ13, DW94, EHL05, FKG+14, Gar94, GBC+20, Gri95, GNPT18, GPA18, HC18, HKLW19, HHK19, HS98, HLY13, JFG13, JKKM01, JCL07, JZ00, KSS18, Kla98a, Kla99, KLR15, Kus97, Lar99, Lee13b, LN17, LPP19, LJ19, LW15, MRS04, MPR98, MR94, Mu95, MZ19, MS98, Nat95, Nat97, NP08, PS10a, PGW17, PL12, PV94, PV95, QSM19, QSV06, RL10, RBH06, RW01, RGG06, RM+15, ST98, Sto21, SD11, TS11, TZ14, TP90, Tiek8, WG00, XA99, YCC10, YBM+18, Yu01, YYY11, ZT17]. **Domain-Decomposition-Type** [BA96, vLH14, vDBdB10a, A96, Cai93, Hes97, SS93c].

**Domain-Oriented** [Gri95]. **Domains** [Ama98, AGH13, Bar14, BK06, BN21, BWZ10, BOPPGF06, CVYK15, CS12, CF05, DK11, DL19, DR13, DW15b, DHZZ18, EIJH20, FDFW07, FKW13, GS21, GPSY17, HG02, HHT03, HQR19, HST09, HW15, HJJc8, HRS19, HLT13, ILK05, ISS19, JK07, KCL16, KL15, KR21, KLY05, KC16, KNV+16, LH21, MR21, MS17, NN18, OR18, RS03, RD21, SKF18, SY12, SK05, SXXK17, SF08, TWYZ20, XSC21, XT06, ZB18, VB07].

**Dome** [Nie16]. **Dominance** [Saa05]. **Dominant** [LWZ13, QS08a, RM08a]. **Dominated** [Ber95b, CLK18, DMS01, GR05a, GM21, HR99a, Hei96, HY10, JX13, Peh20a, WX99, PCDB96]. **Domiach** [DG99]. **Donor** [MS98]. **Dosimetery** [DLM16]. **Dot** [CWC08, OR05]. **Double** [AMVR17, BHG14, DCR20, Nie06, HW18]. **Double-Exponential** [AMVR17]. **Double-Layer** [BKW16, HW18]. **Doubling** [Gee19]. **Doubly** [BCT07, DP98, SL02]. **Douglas** [FZB20]. **Down** [SCM10].

**Downwarding** [AB16b, BPT93]. **DP** [AFS19, HKLW21, KL06, KL10, KLR14, KKR16, KLRU17]. **DPG** [GMO14]. **DQDS** [LG14]. **DR** [EMN17, LM15b]. **Drag** [Hof05]. **Driven** [BS95, BNM18, BHRM18, BBM+08, DMR17, Kla98a, Kla99]. **Drift-Diffusion** [BBM18, Kla99]. **Drift-Flux** [BNM10].

**Driver** [BBH19, DE08]. **Driving** [BM11]. **Dropping** [KRT16, May05]. **DRp** [PP12b]. **DSMC** [Stee]. **DST** [ZLBC03]. **Dual** [CBO00, BCS07, BO07, BC09a, CGM99, CW14, CLK18, DFG15, DFM19, EL20, FK18, HS06d, HQQ16, HSW08, I09, KR06, KM16, LPS17, LN17, LPP19, LD03, NH12, PWG12, Rad16, SS12, WvdZSvB18, Zam16, Zha20, FCR93].

**Dual-Mesh** [CLK18]. **Dual-Porosity** [HQQ16]. **Dual-Porosity-Stokes** [HQQ16]. **Dual-Primal** [KRT16, Zam16]. **Dual-Weighted** [EL20]. **Duality** [BTT11, CJK10, CH11, FM16, Hof04, WW03]. **Duality-Based** [CJ10, Hof04]. **Due** [Men94]. **Dumbbells** [KP10]. **dummy** [MS93a]. **During** [May08]. **Dusty** [PL06]. **DWT** [ZLBC03]. **Dyckstra** [BR05b]. **Dynamic** [AKF15, AK17, BBGS13, Ber98a, BCFJ19, BB09, Cab94, CFFP12, CE17, DU19, DEP11,
GMP19, GGLT00, GT19, HM10a, HBJ04, HEGH14, KKK16, LLZW19, LXS+08, LT20, NNRW09, PR09, PVC17, RP01, SV08a, SSW98, VBA18, WM01, WSA16, YH17, YH19, YP98, ZTK19, ZXY21, ten95].

Dynamical [AKT16, BS05a, BFN17, BCP+19, CW12, EL19, EHY21, GDLS14, HHW00, LSU11, MTM08, MS18b, NK15, PN19, RM08a, SHP07, Sma04, WZ21a, WTWB09, WSH14, YGS+21, YWL17].

Dynamically [BBSV10, CHW20, MM98, MMN00, MNZ15, SNB16].

Dynamics [AIP19, APvDG12, AE18, ACCP13, BLS09, BMTZ13, BOR97, BLR99, BCM15a, BBC+21b, BRK16, CL18a, CTB15, CGK13, DY06, EW00, FGL09, GKM+17, GKB16, HJMS07, JSY98, K21, Kim05, LR01, LL98a, LL11, LF0P08, NKT08, NV05, NBA+14, NL20, OKF14, Peh09, QDKW18, RWKW14, RWWK15, RN14, SDNL10, Sch94, Sha21b, Sha03, SP02, SZZ+20, SKE09, SAY03, TKW08, TPW09, WGF08, YHS07, Zim14, AP93, SRCG93].

E-SAV [LL20]. Each [CGL+13]. Early [LFBO08].

Earth [KY14]. Easily [Yan19].

Eccentrically [GP96].

Eddies [SL09a].

Edge [BG10, BBMR03, Cas97, DEM+20, DG17a, GG19b, HMM15, HO15, HH16, HMMDC18, MNP07, PH13, PSC+16, RT01, TW12, Wall13, dVL10].

Edge-Enhancing [HMM15].

Edge-Preserving [BG10].

EDIS [CK19].

EEG [AFF+15, FVWL17, WK+07].

Effect [FLM+05, HIJ04, SHP07].

Effective [AHH06, CP05, CG17, EHL05, GLQ18, JZ13, Kye12, MCT+05, NV08, TG04, WS05, Xia21, XL20].

Efficiency [AM+11, BSA13, CD02, HJ98, Kra09, NL20, vHBTC12].

Efficient [AG18, AS18, AFK15, AFS19, ACC00, AM05, ABT14, BS08, BK07, BBMZ20, BB17, BS95, BCR11, BS05d, BM13Z, BDdSM11, BSSW13, BO17a, BS16b, Bja19, BT97, BS16, Bo03, BV00, BR11, BBG+19, BB06, BR16, BHK12, CB98, CMS94, CDC19, CH02, Cha18, CL03, CHX15, CCC18, CLL+21, CD20, CN01, CV08, CJ99, CRV14, CD06, CPB19, CVW06, DTY20, DH03, DTR21, DF20, DP20, DAE02, DG18, DSYG18, EW00, EHY21, Ema10, EPSU09, ES00, FLX21, FR19, FDFW07, FNNB05, GS16, GNOR14, GMvdV19, GCB16, GLR+16, GST12, GKNW18, GJN15, GM14b, GM19a, GKT09, GKN18, GS02a, GE96, GS21, GTZ+19, HRT10, HAG17, HNS08, HJS99, HBJ04, HX21, HBSC97, HSY20, HMW07, IB01, JSCB20, Jm09, JW13, JLP18, KW07, Ket08, KZ00, KPP+16, KRLD18, KHW+14, KRS21].

Efficient [Lan19, LMKG16, LZ21a, LS13a, LL16, LZ17b, LZ13b, LM14b, LL15, LCL18, LY18, LC05b, LD11, Luit15, MRRN15, Mac98, MH95, MXYB16, MLL13, MST15, MDM15, M+08, MA03, MK20, NH3, NN17, OS98, OGO16, PKR+13, Pazz20, PHJ11, PMH+16, PSS17, QQOP99, RMR15, RY03, RW07, Ren15, RKL09, RS13, RS99, RO15b, SS98, SSW21, SSW08, SKWKL8, SNB16, SSW12, Sha21b, She94, She95, She97, She99, SY10b, SY12, Slo02, ST11, STY21, SF99, SO09, TT07, TB99b, UEE12, VBA18, VDD19, VPP05, WZ18, WS06, Wan13, WLX+13, WWYX20, WBFA09, WW17, WB08b, WGF08, Xia13, XSC21, XJS13, XC13, XCLQ20, YY09, YV18, YZL20, YP98, ZFLB15, ZZ18, ZWH21, ZMQC21, DG95, LSN3, PCDB96, RC94, Yv93].

Efficiently [KMV05, MV16].

Eigenbasis [Liv08].

Eigendecomposition [HKO99, SDNC20].

Eigenfunction [BBKK97].

Eigenpair [Dul98, MB99].
Eigenpairs [BBP21, De 12b, GWMG03, MW01, VK15, YZ07, YZ08]. Eigenproblem [DMZ21, LZ99a, Oet99, VS17, LZ94]. Eigenproblems [AA13, BCR03, EPE05, GPP95, Jar19, LZ99b, PBP13, Sta07, SM07, SVX15, VYX16, LL93, ZAK15]. Eigenvalues [ARMNW10, AO17, AT15, BS05e, BM12, Bou01, BBO09, BGSV15, CCQ16, CP95, DS20, GGS19, HM20c, HLTT97, KM05, MS12, MN18, OK13, Rah00, RN14, SZ06, SBDN11, SM07, SO10, SVX15, YBLH16, Tre93, LXS19]. Eigenvalues [ARMNW10, AO17, AT15, BS05e, BM12, Bou01, BBO09, BGSV15, CCQ16, CP95, DS20, GGS19, HM20c, HLTT97, KM05, MS12, MN18, OK13, Rah00, RN14, SZ06, SBDN11, SM07, SO10, SVX15, YBLH16, Tre93, LXS19].

Electrostatics [BCR11, RKLM18].

Electrostatics [BCR11, RKLM18].
BKMM10, BCF+00, BK11, BHW99, BRRT12, Bur13, Bur14, BCM15b, BG13, CGGGS15, CI19, CGQ10, CG99, CPV95, Car07, CM08a, CM98b, CBG12, CP03a, CK03, Cas97, CFKM18, COS21, CD02, CCCZ10, CMZ19, ICCVEKV17, CFM96, CGP19, CHH01, CVE13, CWS14, DY06, DB98, DLG97, DMMO04, DMMO05, DG98, DLTZ05, DKR12, DFJS19, DHP17, DEP11, DZ08, DW15b, DTYY18, DMZ21, DGvdZ18, Egg18, EAOS21, EJJ08, ES17, EIJH20, EHW00, Fai03, FVV21, FS01, FHFR13, FGM08, FKTW10].

Element [FCF19, FK18, GJ08, GYZ11, GHMY18, GKS98, Gra14, GdLP+18, GC97, HHS+16, HHLZ21, HH02, HL09, HX16, HK95, HS99c, HM20c, HLY13, HSS90, ISS19, JV96, JK11, JHJ12, JK05, JV01, JGZ06, JR96, KLV+16, KV20b, KV20a, Kan03a, KL05, KRW20, KMS15, KKL05, KLT06, KS07, Kir14, KO17, KG14, KZ16, KKK18, KS14, LW12a, LP11, LP13, LOSZ07, LZX1a, LSTY21, LP96, LLP08, LMMR98, LMM18, Le 01, Le 05, LR07, LP08, LDS11, Lee14, LPP19, LPMR19, LMM17, LHL11, LZ17b, LN91a, LN91b, LZ21b, LTW18, LVk20W, LGR20, MR21, MR04, MH17, MM14, MRT00, MLL13, MST15, Mic01, MTTV98, MS12, Moo00, MS18a, MA20, MWY17, Mu20, MY21, MGH21, Nat98, NNRW90].

Element [NV98, NSK10, OSU10, ORST12, OX17, OQRY18, PRS12, PDTVM08, Pav98, PWZ10, PSKG13, PMH+16, Pic10, PvdVqG17, PWGW12, PC98, QQZ14, RTO1, RL18, RW21, RS03, RW01, RD08, RV10, RLC08, RW21W, SMZ18, SCC17, Sar98, SJ09, SV08a, SL09a, SZ06, SWT00, SSF16, Sta00, Ste01, Ste00, SL09b, Ta15, TKW08, Tau96, Ull10, VP10, VP14, VM13, Wal18, WK06, WLE+00, Wan01, WYV09, WH15, WGS17, Whi15, WMBT19, WH09, WKM+07, XL20, YSZ14, YK03, ZKN21, ZK14a, ZCZK14, ZL1T13, ZN05, ZHY21, ZMS10, ZJB20, ZK96, Ain96, CGP93, MMPPR93, MP94, PSC+16].

Element-Based [CBG12, ICCVEKV17, RW21].

Element-by-Element [FS01, SWT00, DLG97].

Element-Free [HV01].

Element-Structured [VM13].

Elementary [CVW06].

Elements [Ain07, AAD11, Ain14, AOW20, BRT07, Bla98, Bre96, Cao07, CWS99, CGP12, CDK19, CW18, Che98, CF05, CG07, CDPC13, DKS19, GMvdV18, GMvdV19, GJ08, GYS17, GSV18, HT00, HPS08, HDZ16, HR16, HTP+12, HLP21, HZZ20, ISG15, KKS21, Kup00, LO11, MM8+16, MCB18, MT09, MV21, MAK20, MN07, NHSS13, NN14, Nie16, Obs07, PV08, PP12a, PR07, PRS11, RKL09, Ros97, Ros06a, SB10, Sch02, SF08, TX17, WS07, Wan01, WYY11, WSK99, ZW19, ZHS10].

Elementwise [LMR98].

Eliminate [SO18].

Elimination [CL11, GC19b, LRW96, LCY+20, Saa96, YYS16, Rag95, Wri93].

ELLAM [WDE+99].

Ellipses [Gro02].

Ellipsoids [Kue12].

Elliptic [ABLS05, AH20, AW15, AGH13, ADK+98, AP99, BKG16, BDS08, BJNN02, BBC+01, BK06, BF95, BAS09, BB03, BIYS00, BHW99, Bur13, BEH+19, BCDE21, CPV95, CPB13, Cas02, CCER12, CT03, CD02, CM15, CJ05a, CM99, CFH19, CML+18a, CML+18b, CRV13, CH11, CDN6, CGF21, CP17, DEV16, DFL20, DK03, EPR10, EF15, EGKS94, EMT09, EPV94, EIL01, Fro12, Fu21, GV19, Gar05, GGS19, GGi19a, Gia18, GM14a, GXY15, GH99, GS00, GS21, HW15, HHS+16, HCRT13, HNO6, HLT16, HRS19, HG00, ILK05, Jia14, JCL07, JGZ06, KCL16, KMW99, KS11, KLR15, Knu96, KT08, KPV17, Kus97, LP11, LP13, LV13, Lee09, Lee13b, LLW16, LY20, LY13, LXH020, LNS15, LGR20, Lu100, MV94, MK08,
MWY17, NRMQ13, NV98, Ols07, PL03, PS11a, PP08a, Pic03, PRSS11, QZZ14, Rak21. Elliptic [Sch98, SY10b, SY12, ST00, Sta97, TY08, TPB17, TV98b, WR13, WZ18, Wan04, WHL18, Xu94, YZ05, bZOW07, Cai93, Gre93, HHRV93, McG95].

Elliptic-Parabolic [LV13]. Elliptic-Type [Kus97]. Elliptical [PRM09, Ros06a].

Embedded [AP12, BH12, CKN06, HRD21, HBL05, KP05, KP06b, LKvBW10, ¨OB05, PDE17, SSVW17]. Embedding [AG21, CL18c, DFS17, DN97, GL18, GLT09, GS21, MDC08, CG93]. Embedding-Based [GL18]. Emerging [AHK17, PDE17, PK19]. Empirical [AN16, BEEEM18, CS01a, DG16, DHO12, JK10, Kea97, PBWB14, PDG20, Sai20].


Enlarged [GT19, Mou20]. ENO [CLTX15, DBSR17, GB12, JP00, JSZ13]. Enriched [DG09, Doh03, DS14, EL20, GJ08, GJ10, HJP03, HJP04, HSKW08, HU16, HS21, In99, KG14, KS20, KKR21, LW12a, LO19, LQX14, LTZ21, MN07, OST11, OWO14, QNNZ19, RWW14, Sha12, SY14, TY19, Vas10, WSC00, YY18, Yan21, Yan18, ZHY21, ZWWZ21, ZYLW16].

Energy-Based [Sha12]. Energy-Consistent [HSWW08]. Energy-Corrected [PDE17]. Energy-Decaying [ALI9].


Energy-Transport [BJ08, DJP00, GJ08, HJP03, HJP04].

Enhanced [DMZ21]. Engineering [JMR08, SBMR18]. Enhance [Zen16].

Enhanced [ADK1, BBMSS21, EEO01, GG19b, HLMo+9, HTH+16, JFG13, KM08, PDVM08, Zim13].

Enhancements [ABIN20, DGt10, DS97]. Enhancements [DMM18, EG93]. Enhancing [Gup17, HSMS15, NZ06, Wan12, ZH21].

Enlarged [GT19, Mou20]. ENO [CLTX15, DBSR17, GB12, JP00, JSZ13].

Enriched [HC18, HMY16, HWW16]. Enrichment [ADK1].

Ensembles [AM04]. Ensembles [AMVR17].

Ensemble [AdWR17, GCR16, GC17b, JY21, LTT16, Lee21, LMC14, LM14c, LW19b, NRSD18, PDE17, PMSI21, Rei13, UWWY15, dWPR20].

Energy-Based [Sha12]. Energy-Consistent [HSWW08]. Energy-Decaying [ALI9].

Energy-Energetic [DCL17, Lee10a, LW20]. Energies [DN19].

Energy-Decaying [AN16, AC17, AK15, AAB15a, AL11, AN16, BPS14b, BW01, BJ08, BM13, CCKP21, CCC17, CYZ21, DK10, DJP00, DG09, Doh03, DS14, EL20, GJ08, GHMY18, GZ18, GZW20, GCN21, HSWW08, HKR16, HL20, HJP03, HJJP04, HX21, HY20, HS21, In99, KG14, KS20, KKR21, LW12a, LO19, Li03, ILT21, MNP07, OST11, OWO14, QNNZ19, RWW14, Sha12, SY14, TY19, Vas10, WSC00, YY18, Yan21, Yan18, ZHY21, ZWWZ21, ZYLW16].

Energy-Based [Sha12]. Energy-Consistent [HSWW08]. Energy-Corrected [PDE17]. Energy-Decaying [ALI9].

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**Equivalence** [Doh21, PKTW10, TSX17, WB99].

**Equivalent** [DH01, SCC17].

**Equivariant** [Tau96].

**Erasure** [ZGG17].

**Ergodic** [Vil15].

**Ericksen** [CGGGS15].

**Erratum** [BEM94, CDW14b, FGMP14a, FS13, Hri05, LB08].

**Error** [ABF99, AV14, AdVC00, Ain07, AD21, ABR17, AOR18, AOS20, AS207, ATK12, ADLW19, BR02, Ber95b, BPS14b, BHL+20, BCM11, BF13b, BB11, Bre99, BDW11, Cab94, CKOR16, CP04, Cao07, CGAD95, CF00, CP03a, CK03, CP07, CW08, CJ09, CRS21, Che94, CV04, Cho05, CCH15, CHM21, CWG10, CHH01, CE16, CPB19, DEM+20, Ded10, DP09, DFH+19, DEV16, DG16, DK91, ELW20, EHW00, EM09, FL02, GCS19, GLS08, GGL07, GSS00, GX21, HHS+16, Har08, HHW00, HM19a, HM19b, HM20a, HL98, Hop04, HR99b, HM20c, HWZ21, JSV10, KKP14, KLS+15, Kas95, KS99, KW10a, K12, KW15, LV07, LU17, LZZ18, Liu96, LC21, LPP09, LX16c, MBT21, Men11, MZ15, Nor07, OS15, OC03, OC05, PS02, PDH09, Pic03, Pic10, PS01b, Rad16, RKL18, RL13].

**Error-minimizing** [Wei94].

**Error-Oriented** [Wic17].

**Escape** [GDLS14].

**eSIF** [Xia21].

**Essential** [Sch09].

**Essentially** [CCJ21, CFR05, HKYY16, QS05a, QS08b, ZLS12, ZQ18].

**Estimate** [BR02, CPP+17, GJS19, KLS+15, Str93, Wat98].

**Estimates** [AOS20, AL07, BP13b, Bre99, CDH98, CAB04, DEV16, ELW20, GX21, GSV18, HHS+16, HZ11, HR99b, HM20c, HWZ21, JSV10, KL15, KL94, LD03, Men11, PDD09, TBO10, WCL+21, WW03, ZCK12, ZHS10].

**Estimating** [AMHR13, CCPS20, GSO17, HSB12, HR14, HR16, KL16, LE13, MM11, PV11, SLO13].

**Estimation** [AK15, ABR10, ALLK15, ABR17, AOR18, ATK12, AM05, BP97a, BG10, BI13, BCJ+21, BPS14b, B1039, BBT11, BM00, CP04, CG9+19, CPB19, Ded10, DK91, EHW00, EM09, ES00, FB95, FR19, GC04, GM00a, GK13, Har08, HCT13, Hei13, Hop04, HTH+16, JKLZ18, JBL18, KH14, KR17, KS99, KLR98, KH96, KHKL16, LV07, LX08, LM17, Liu96, MT19a, MS07d, MDG+18, Ng94, NRS18, PPA18, PWG16, PCL+16, PS10b, RKL18, RW13, RTH17, SKB13, SW01, TP18, TE07, TO15, TTY16, TF99, WLPU20, WY11, WE13, WLL18, Win06, WSH14, WvdZStB18, YR12, YSS07, ZBFN17, ZFLB15, ZTM+16, ZW16, vdZvBdBi0a, vdZvBdBi10b, Liu93].

**Estimator** [Che16, LPP09, Pic03, Pic10, Sch03, SSF16, WW10, WP20, HW99].

**Estimators** [CPG20, Rad16, Red99, SZP19, TV98a].

**Euclidean** [ACCO00, EAA21].

**Euler** [ABC97, CBG12, CCM08, CDF18a, CK15, CPR11, DGS16, DLV17, DT03, EOD93, Ena97, GN18, HG02, Her08, KLS+15, KPS19b, KQW04, LK93, LL99, LW03, LJ98, LSM93, MV06, NBA+14, RSD+20, SM10, TTK16, TV93, WX21, Xu99, YC14].

**Eulerian** [AHH12, AHR12, BCM15a, GH18, Gra14, GPS17, HL19, ISS19, NS10, SZZ12, WLE+00, WZ113, WT16, YW17].

**Eulerian-Type** [ISS19].

**European** [AO07, FO08, OGO13, OGO16, Toi08].

**Evaluate** [BS98, Bar00, HS99a, PRM09].

**Evaluating** [DP07, Li10, OR18, Yun03].

**Evaluation** [AO07, Bar14, BWV15, BN98b, BKT21,
BER17, BV98, CKB20, CBN02, CBS00, DP09, Far01, FM12, GJM94, GPK04, GKL04b, GBS19, HKF+13, In99, JLZ16a, JF16, Kea97, KKLST06, KST07, KW11, LS12b, LH96, LG09, LX14, MAK20, Nit99, OSU10, OW98, RMC12, Ros06a, SNB16, YH17, YH19, aKT18, BS94, SS93a].

Evaluations [KHRvBW14, TZ14, TEE+17].

Event [GL15, Kof04, LLZ15, WLPU20].

Every [Fer98].

Evolution [And16, BEG+08, BGN07, BGN08, BGK15, CGKM16, Coa12, DHO12, EOZ94, Fis19, HNLS19, JTZ08, JLZ17, KLST06, KS07, KW11, LS12b, LH96, LG09, LX14, MAK20, Nit99, OSU10, OW98, RMC12, Ros06a, SNB16, YH17, YH19, aKT18, BS94, SS93a].

Evolutionary [ABN21, CDGT01, DKZ09, lLN21, MPW18].

Evolving [CM09, CW16c, MRI21, NNH99, OX17, RD21, TN16].

EVSL [LXES19].

Ewald [JLXZ21].

Exact [BHNPR07, BLP14, BBR08, CFSZ08, DMR17, DN97, EFOS20a, EFOS20b, Fli13, HM20c, JP08, NHSS13, NMS06, Oh01, PDH09, PV08, PEC+14, Saa03, SBP04, SWU16, Str93, VS03, WMUZ13, YWG21, YZ09, HLS93].

Example [CST16].

Examples [DKSW19, MT99, GM96].

Exascale [MRL+17].

Exchanger [VP14].

Excitation [CVK13].

Execution [MZW09].

Existence [LFBOO8].

Existence [MRL+17].

Exit [BP06, GDLS14, KTSB15].

Expansion [Bur97, CJGX15, DLY14, FUNB18, FMS17, GTK+17, OC03, OC05, PDA09, RZ03, RO12, ZRTK12, aKT18].

Expansions [BBKK97, BDW11, CJ05b, CML+18b, FO08, FEL18, GI17, JNZ17, JK00, K009, RT05, Rub12, RN14, SM15, TW09, Nat95, Nat97].

Expectation [LR10].

Expectations [ML11].

experience [Car93].

experiment [Ber97].

Experimental [BF107, EHS19, HHP21, LPSB17, RCC18, TBKF14, BL03a].

Experiments [ABH03, APSG14, APSG16, AS18, Ban10, BBC+01, BG12, CGP12, CGDD11, DTT+16, GMT98, HRV11, vdHCD15, Kor93].

Explanation [AS21].

Explicit [AVZ13, AT20, ADP20, AV21, AAI98, BPR13, BQR18, BB09, BK11, CHAMR06, CZZK16, CR21, CS10b, CS10c, DW98, DG09, DMD+12, EJL03, FGS14, GKC13, GLQ18, GMM15, HS05a, HRTK13, JLP18, KCB17, KW10a, Lay06, LL20, LD05, LMS997, MO00, NP17, ODN17, PKD13, RSD+20, SKWK18, SS03a, VS04, WL01, ZS02, Ena97, LK93, ZSB16].

Explicit-Implicit [ZS02].

Explicitly [DCP11, EPE05, Issa20].

Exploiting [AKA13b, ALM19, ABB+16, EL93, GRT05, HP02, MDC08, LSVdG14, SBS98, SW03, SvG10a, VDD19, Wan12, ZMS21].

Exploits [HM19b].

Exploratory [Sun93].

Exploring [ES18a].

Explosive [BBH+16].

Exponential [AMVR17, AMH11, BDZ13, BMaK19, Bar12b, BM17b, BN13, BGR13, Bu20, Bu21, COR13, CKOR16, CHKsL20, DL05, FMYT16, HKY16, HLS98, Hsok17, HWZ19, JL03, JL05a, KCB17, KGB18, LPS10, LW16, LY20, LL20, LT14, PS19a, RX18, SDR15, SL09a, TLT12, YH19, vdEH05, OS95].

Exponentially [BB10, Lan10].

Exponentials [PPT11].

Exponentiating [Lec13a].

Exponents [BHW99, YWL17].

Exposing [BDO12, YS16].

Expression [HHT12].

Extended [AKPRB08, APSG14, APSG16, AS18, Ban10, BBC+01, BG12, CGP12, CGDD11, DTT+16, GMT98, HRV11, vdHCD15, Kor93].

Explanation [AS21].

Explicit [AVZ13, AT20, ADP20, AV21, AAI98, BPR13, BQR18, BB09, BK11, CHAMR06, CZZK16, CR21, CS10b, CS10c, DW98, DG09, DMD+12, EJL03, FGS14, GKC13, GLQ18, GMM15, HS05a, HRTK13, JLP18, KCB17, KW10a, Lay06, LL20, LD05, LMS997, MO00, NP17, ODN17, PKD13, RSD+20, SKWK18, SS03a, VS04, WL01, ZS02, Ena97, LK93, ZSB16].

Explicit-Implicit [ZS02].

Explicitly [DCP11, EPE05, Issa20].

Exploiting [AKA13b, ALM19, ABB+16, EL93, GRT05, HP02, MDC08, LSVdG14, SBS98, SW03, SvG10a, VDD19, Wan12, ZMS21].

Exploits [HM19b].

Exploratory [Sun93].

Exploring [ES18a].

Explosive [BBH+16].

Exponential [AMVR17, AMH11, BDZ13, BMaK19, Bar12b, BM17b, BN13, BGR13, Bu20, Bu21, COR13, CKOR16, CHKsL20, DL05, FMYT16, HKY16, HLS98, Hsok17, HWZ19, JL03, JL05a, KCB17, KGB18, LPS10, LW16, LY20, LL20, LT14, PS19a, RX18, SDR15, SL09a, TLT12, YH19, vdEH05, OS95].

Exponentially [BB10, Lan10].

Exponentials [PPT11].

Exponentiating [Lec13a].

Exponents [BHW99, YWL17].

Exposing [BDO12, YS16].

Expression [HHT12].

Extended [AKPRB08, APSG14, APSG16, AS18, Ban10, BBC+01, BG12, CGP12, CGDD11, DTT+16, GMT98, HRV11, vdHCD15, Kor93].
Extrapolated [AL19, CS10b].
Extrapolation [ALZ14, BG20, BPR16, GSS12, HL09, HW09, JR96, JR98, KKR21, MMZ03, WTG12, WI12b, KZ95, Ber97].
Extrema [KV96].
Extremal [De 12b, Zha96].
Extreme [AAAH +19, AHJS01, BMP16, BBP21, DDF21a, rFS12, FH21, SR18].
Extreme-Scale [FH21, SR18].
Extremely [KLR15].
Extremes [Gri19].
Extremum [WI12a].
Extruded [TPT +16].

FA [IJ08].
FA-SART [IJ08].
Faceted [RS00].
Facing [GM11].
Factor [GG94, GG95, LLJF21, WZSL12].
Factored [BK07, BBFJ16, BCFJ19, BT99, JFG15, KG18, S93b].
Factoring [BH14b].

Factorizable [DT03].
Factorization [ABL17, ACD18, AVW13, BQ08, BS99a, BSvD99, BCY21, BMMM08, But13, BHK20, CD19, CPV95, CLB21, CP15a, CIZ16, CL08, CKN98, CG11, CST +13, DW05a, FMRR13, FCF19, FKN +20, GDL07, GBDD10, GCD18, GE96, GG10, HS06c, HM19b, HRS10, HTS18, IL16, JF16, KP11, KSW20, LY17, LXH20, LXG +21, LGCL21, MSL13, MOHvdG17, V08, PHY20, PSGL14, PT08, QOSB98, RT10, RS99, SK021, ST14a, ST14b, ST16b, SE16, SF08, Sm96, VM13, WGB97, WZSL12, X13, YTD15, ZJX14, CMV97, FGM95, MH95, Nag93, N93a, PS93, Rag95, RG94, Rot96, S93b].

Factorizations [ABB +16, DGHG12, LM09, MOKS12, Man95, MV16, MM95, MM98, MN000, Sco17, Sch93].
Factorized [BT00a, KKS13, KRT16, LNC05].
Factors [Bo03, DO15, WW12].

Fast [AdVC00, ABM11, APSG16, ABGG16, AT19, ABL0a, ACD95, AKM +14a, ALZ14, ABB +04, AVW13, AIV98, AO93, BGL08, BZ10, BCR11, BMR10, BK98, BK99, BS05b, BOR97, BMaK19, Bar99, BR02, BN98b, BL00, BACF08, BPT +14, BC02, Bit99, BB15c, BHM20, BD99a, BIA99, Bru15, CI19, CD19, CY07a, CDG05, CV12, CC12, CN03, CT94, CC08, CP20, CWA14, CN02, Cho01, CG10, CRT11, CX08, CRR18, CP17, CGF21, BBC13, DD12, DFN12, DKG15, DN97, DKO12, DKS19, DW15b, DKS21b, DR93b, EB96, ES96, EE14, EOZ94, EY07, EG01, FB21, FGMP13, FGMP14a, FGMP14b, Fis19, FWA +11, FM99, FJP +11, FKW13, GH917, GH18, GW17, GR02, GV13, GLR07, GLQ16, GAD +21, Go97, GY09, GHST98, GK05, GD07, GLN99, Gr10, H00, HT13a, HT14b, HO18, HJ07, HL11, HG12].

Fast [HA17, Hel13, HEGH14, HR98b, HG00, Inv02, ISS06, JW08, JF16, JM18, JP11, KKH21, KK98, KV12a, KKB +08, K11, KLZ +06, KN11, KW18, Kup98, KGT07, Lab05, LAC14, LQ19, LV20, LS94, LG97, LPQ03, LCA08, LB13, LCD14, Le0, LXX15, LZZ18, LLY +11, Lin16, LXH20, LYL21, LB12, LFL08, LFB08, LWK +16, LS02, Luo19, Lyo11, MG07, MG09, MG11, MBG16, MR07, MMR19, MSW05, MH16, MC12, Nag93, NAS13, NF96, NCT09, NL20, OAA20, OSU10, PN16, PS13, PS11b, PR05, PS13, PD15, PCD17, PT08, RO15a, RRR03, RRR05, RG20, RT05, RT99, Rmu09, RS16, SKMF15, ST16a, SLF106, Sch94, SC03, SWX16, SV00, Sgy08, SVG10b, Str94, SZZ20, TW09, TN16, TZ18, TWK18, VGOR20, WOH9, WB12, WG18, WZC19, WYGZ10, XLS18, XH15, XJB12].
Fast-wave [RS16]. Faster [BM18, WJW21].
Fatemi [CCS+19, LPP19]. FATODE [ZS14].
Fault [AG17b, AG17a, HHLs15, SRM+15, ZGG17].
Fault-Oblivious [ZGG17]. Faults [SW15].
FD [LSW17, DFL20, SWN20]. FDEs [AMN15]. PDF [PYSG13]. FDM [BC06].
FE [DFL20]. FE-FD [DFL20]. FDM [BC06].
FE-FD [PYSG13]. FDM [BC06]. FDMs [LWZ17].
Feasibility [DHN17]. Feast [KPT16, GPTV15].
Feature [DTV13, HA08, HGPM14, NS21, ZCZ04].
Features [MRV06]. Feedback [BBSW15, BSS15, KK18, NMW11].
Fekete [GNYZ18, PZPR07]. Ferdi [XH15]. Fekete [GNYZ18, PZPR07].
FELICITY [Wal18]. FEM [AFOQ19, BC06, BHK12, CF00, GM17, GH02, Sch03].
FEM/FDM [BC06]. FEMs [LWZ17].
FENE [KP10]. Ferdi [XH15]. Fekete [GNYZ18, PZPR07].
Fermi [Rub12]. Ferdi [XH15]. Fekete [GNYZ18, PZPR07].
Fidelity [CC11, NKM10, TAY+19]. Fiedler [CQZ17, KT15].
Field [ABL20a, And17, ATV07, BBKT15, BCM15b, BFSN08, CS94, CAC17, CCL+20, Cl03, C3CZ10, CS1b, CRV14, CFG21, D208, FT15, GHMY18, GHHK15, GZYW18, GZW18, GV16, GX16b, GrM10, HSZ12, HFC+04, HJ04, Hri03, Hri05, J1L9, JSCB20, JW13, KS17, LTT16, LB15, LY13, LS09, LK15, LL20, LW20a, LXL11, MM14, MKWG15, PvdVg17, PV15, RAB+14, RWWK15, SY10a, SY14, TYZ19, TK13, WPL+13, WYT18, WMUZ13, Wic17, YY18, Yan21, BGPS21]. Field-Effect [HJP04]. Field-Split [LK15].
Fields [ABB09, BF16, BG20, CPH14, DHP17, DW15a, EAA21, GMS21, GS14, HR98b, KZ16, OVV17]. Fifth [WDG20]. Fifth-Order [WDG20]. Fill [CAK11, Oli01]. Fill-In [Oli01].
Filter [BM17a, FL08, GC17a, LM14b, NRSD18, PMS121, YSK19].
Filter-Trust-Region [YSG19]. Filtered [BFS16, rFS12, LLLwX20, NN19, XMR18].
Filtering [DSRMK17, GCR16, Har11, KKS18, KKH21, KMW09, KK16, LTT16, LXV+16, LKBJ18, NMS06, TO15, ZKN21, ZTK19, sSRV11, NPP06]. Filters [AdWR17, AT15, CCO11, KBD21, MKRR13, NP17, RKLNO7, XS16]. Fin [MR04]. Finance [MSW05, WS05, WS06, Wan07b, Wan12, ZWH21]. Financial [HW14b, KKS08, Mar01, RO12]. Find [Goe94]. Finding [CGS02, CK98, CP95, FBF15, LZO1, LZO2, Liv08, Saa03, XYZ12, YZ05, YZZ19, ZDZ16]. Fine [BDO12, But13, CP15a].
Fine-Grained [BDO12, But13, CP15a].
Finite [AE08, ABF99, AV14, ACHZ21, Ain07, AAD11, Ain14, AG18, AJ21, AHN+20, AFS19, ABN21, AORW20, ADK+98, AGL13, AS05, ADO6, ACH19, BB13, BH14a, BM18, BMNV20, BMNV21, Ban08a, BJNN02, BOB+19, BHV05, BB10, BB14, BBGS04, BND+18, BS16a, BOF16, BR07, BCLT15, BMF19, BSS09, BBK21, BC09a, BI13a, BPS13a, BLY21, BCF2, BYL13, BV19, BP13b, BMK10, BML16, BHV09, BRT12, Bur13, BUR14, BCM15b, BG13, CCXGS15, CČJ21, CH09a, CG10, CG99, CPV95, CM98a, CM98b, CCKP21, CSW99, CK03, CPG21, CLP08, CZ10, CD09, CHK13, CW18, C15, CFD18, COS21, CD02, Che05, CCCZ10, CMZ19, CLTX15, CFJ18, CGX21, CF05, CG07, CFM96, CDPC13, CP19, CHH01, CVE13, CH11, CSW14, DY06, Dar21,
DMMO04, DMMO05, DG98]. **Finite**
[DLTZ05, DRFNP07, DFN12, DKR12, DFJS19, DHL17, DGLW16, DMS18, DEPI, DZO8, DW15b, DTYY18, DMZ21, DGVdZ18, Egg18, EAS02, EHS00, EIL01, Fai03, FVV21, FVO6, FFHR13, FGM08, FO19, FMI1, FKTW10, FS02, FCMI, FL08, FCF19, FEM08, FL19, GCD21, G08, GY21, GW15, GHMY18, Gas13, GK18, G08, GHST98, GKT09, Gma14, GLC21, G07, GPS17, GdLP18, GC97, GLW18, H01, HHS16, HHLZ21, HH02, HL09, HZXC16, HR99a, HPS08, HZ11, HTW12, HY08, HJP03, HXX18, Hor10, HQH16, HS01a, HS18, HY10, HK95, HS99c, HYZ20, HLY13, HSS909, H06, ISG15, ILK05, IT09b, ISS19, J11, JHJ12, Jia14, JSZ13, JX13, J05, JG06, J10, KL16, KV20b, KV20a, KP09a, Kan03a, KL05, KMS15, KKL05, KLS06, K07, Kir14, KKS21, KO17]. **Finite**
[KP12b, KPS19b, KLY05, KLY07, K08, KZ16, KKK18, KS14, KWIb, KTSB19, Kup00, Kwa99, Kye12, Ld12, LW12a, LO11, LP11, LP13, LZ21a, LSTY21, LP96, LLP98, LMR98, LMM18, Le 01, Le 05, LR07, LP08, LDS11, Lee14, LNP15, LP19, LPR19, LSW17, LMM17, LOL13, LO14, Lem16, LHL11, LN19a, LN21b, LSYY21, LSV13, LSZ11, LTIW18, LP03, LVBW10, Lu95, LGR20, LMMW04, LK98, MMZ03, MRT01, MH17, MM14, MRT00, MLL13, MC10, MB13, MB16, MC18, MTO9, Mic01, MTVV98, Min02, MSS12, MR18, MS12, Mo00, MS16a, MAK20, MYW17, Mu20, MYZ21, MGH21, MSV00, NN14, NN03, NN09, NN98, Nie16, NSK10, Not00b, ORST12, OX17, OQRY18, OL98, OSCE00, PRS12, PDTVM08, PP12a, PHW19, PL06, PSK13, PMH16, Pet01, Pic10, PRPS19, PvdVvG17, PWGW12, PRSS11]. **Finite**
[PC98, QZZ14, QS03, QS08b, RMR15, RL18, RW21, RU01, RW01, RKL09, RDP08, RV10, RLC08, RW14, SMZ18, SB10, SCC17, Sar98, SJR09, Sch02, SV08a, SL09a, SZ06, SY09, SY18, SC02, SSF16, Sta00, Ste10, Str99, SL09b, Tal15, TB99a, TX17, Tie18, TLH21, Tor05, U110, VP10, WS07, Wal18, WLE10, Wan01, Wan04, WXY09, WB12, WH15, WD18, WP19, WDGG10, WGS17, Wh15, WMBT19, WH09, WKM17, XL20, Yam02, YSZ14, YCY19, ZLLT13, ZN05, ZJC12, ZLS12, ZW19, ZHY21, ZWP21, ZMS10, ZJB20, ZHS10, ZK96, ZQ18, ZL96, Zin00, dVM08, Ain96, CGP93, Eth96, MP94, PSC16]. **Finite-Difference** [ACHZ21, FV06, HZ11, JZ00, KP09a, Lu95, OSCE00, RU01, WDG10, ZL96, Zin00]. **Finite-Element** [AV14, ACHZ21, CCGG15, CGQ10, G08, HJP03, Le 01, Le 05, LR07, LP08, LDS11, MTTV98]. **Finite-Time** [LSYY21]. **Finite-Volume** [CCKP21, FEM08, MSV00, ZJC12]. **Firedrake** [LMKG16]. **First** [Ahe99, AMMR10, AMM10, AMM11, ABM13, AV14, ALMR17, AM05, BFS16, BM03, BSU19, CLM00a, CLM00b, CP03a, CP05, DM13a, DFN12, EIJH20, EHLW20, FMM98, HZXC16, HJ18c, HT16, HO94, HO96b, HS01a, Lan94, LMRR00, LM15, LMM17, LW16, NKLW04, OKF14, PSC18, Sha21a, VC00, WJW21, ZPE12, HO96a]. **First-Kind** [NKLW94]. **First-Order** [AMMR10, AMM10, AMM11, ABM13, AV14, ALMR17, BL03, CLM00a, CLM00b, EIJH20, FMM98, HZXC16, HO94, HO96b, HS01a, LMRR00, LM15, LMM17, Sha21a, WJW21, ZPE12, HO96a]. **First-passage** [HT16]. **First-Principles** [OKF14]. **Fisher** [DG98, RU01, ZW03]. **Fitted** [Woo94]. **Fitting** [BLS06, BR14, BF07, DGB15a, DGB15b, FS12, HW99, Hok17, LZ13b, LS00, NNT13, SL09a, ten95, OS95, FS13]. **Fixed** [AIL05, BCK21, CWY17, DBSR17, HV04, KS94].
KM05, SW15, Van00, Ver96, ZD19, SS95.  
**Fixed-Point** [BCK21, CWY17, Ver96].  
**Fixing** [DHHR19, HY08].  
**Flames** [HC95, SAY03].  
**Flexing** [DHHR19, HY08].  
**Flames** [HC95, SAY03].  
**Flexible** [ABLM19, FP07, QZZ14].  
**Flat** [ABLM19, FP07, QZZ14].  
**Flexible** [CA12, CGL12, CG19, DTY20, HDH19, GGPV10, HZ10, HD15, Not00a, PSFL20, RT17, SBK13, SSM16, SV01, WZ98, SS95].  
**Flexoelectric** [AAB12, AAB15a].  
**Flight** [EKSS16].  
**Flights** [CD15b].  
**Floating** [And99, CWC08, DH03, DFH19, Drm97, FDH20, HP19, RO08a, RO08b, ZY05, ZH09, SS95].  
**Floating-Point** [And99, DFH19, FDH20, HP19, RO08a, RO08b, ZY05, ZH09].  
**Floquet** [LZ17a].  
**Flow** [AB17, AABM13, AL07, AHR12, AGPR19, AKM14b, ACW21, BM11, BHN10, BD04, BL08a, BG08, BCT05, BSSW13, Ber89a, BPSV13, BV20, BPSV13a, BPSV13b, BBSW15, BCL15, BFKG19, CFGM11, CHV18, CHH10, Cor98, CDFQ11, DY06, DP10, DL20, ES17, ES00, EF05, FUNB18, FGS14, FHR14, GSV20a, GL16, GZ18, GX02, HHK19, HSF07, IR98, JH12, KN21, KCZ15, KV05, LQR12, Lee14, LM15, LO14, Lem16, LF08, LL08, LM15, LO14, Lem16, LF08, LL08, LXK80, MKWG15, MEF09, NV08, OD17, PRS12, PVV11, QS14, RR98, RW13, SCC17, SM17, SOT21, SCM10, SNB08, SF99, WLE10, WL06, WFG20, XMR18, Yan21, ZM14, ZVF18, vBdB05].  
**Fluid-Filled** [ODN17].  
**Fluid-Fluid** [FGS14].  
**Fluid-Membrane** [R08].  
**Fluid-Poroelastic** [SOT21].  
**Fluid-Saturated** [SCC17].  
**Fluid-Solid** [KZC15, PRS12].  
**Fluid-Structure** [ACF09, BQQ08, BC10, BB15a, BFKG19, CFGM11, CHV18, CHH10, Cor98, CDFQ11, DY06, DP10, DL20, ES17, ES00, EF05, FUNB18, FGS14, FHR14, GSV20a, GL16, GZ18, GX02, HHK19, HSF07, IR98, JH12, KN21, KCZ15, KV05, LQR12, Lee14, LM15, LO14, Lem16, LF08, LL08, LXK80, MKWG15, MEF09, NV08, OD17, PRS12, PVV11, QS14, RR98, RW13, SCC17, SM17, SOT21, SCM10, SNB08, SF99, WLE10, WL06, WFG20, XMR18, Yan21, ZM14, ZVF18, vBdB05].  
**Fluid-Structure-Interaction** [vBdB05].  
**Fluid-Surfactant** [Yan21].  
**Fluidity** [ALMR17].  
**FluSI** [EKSS16].  
**Flux** [ACCP13, BLMR02, BHN10, BB21, BF16, BB13, BST08, BBKK97, BBSW15, BCL15, BPS13b, BPS13a, BG05b, BB08b, BN21, BD99b, BC09b, CFGM11, CCC17, CEOR18, Cha07, CL03, CDF18b, CCL12a, CLY20, CS20, CD01, CLK18, CBS00, CHH10, CCH15, DD00, DN19, Dor98, DL20b, EAS11, GJP14, GC16a, GZ18, GX21, HM98, HR99a, HPS06, HC20a, HSY20, IR98, KCZ15, KEF11, Lee14, LD05, LCK21, MCT+05, Man05, MBGV16, MM14, MP20a, MT99, NN99, OW00, HS9K11, Ros06b, SA09, SL09a, SY10a, Ste11, TAY+19, VN03, WLE+00, XMR18, YC14, ZCZ04, BY93, LL94, TR93, Ts97].
EZ11, FEM08, FM07, GC16a, KQW04, PDH09, QNNZ19, WL97, WDGK20, YHS07, ZD19. **Flux-Based** [FM07]. **Flux-Continuous** [FEM08]. **Flux-Free** [PDH09]. **Flux-Vector** [KQW04]. **Fluxes** [DK98, Mar94, QNNZ19]. **Fly** [TY11]. **FMM** [AAAH +19, ABC +14, GMSB16]. **FMM-Accelerated** [AAAH +19]. **FMV** [TW93]. **Fock** [KKF11]. **Focus** [Gro02]. **Fokker** [AB21, CK17, CYDK21, DKO12, DCL +21, GM20, KP10, Kus00, LMM18, LM05a, LW20, LY14, ZLTA15]. **Fold** [ROO08b]. **Following** [FK00a, PHJ11, Wal99]. **FOM** [Meu11]. **Force** [BM11, OZ16, TP09]. **Forced** [Cab94, MNRI19]. **Forces** [BZ10]. **Forchheimer** [ACL09]. **Forcing** [WZ18, EW96]. **Forcings** [GZ19]. **Forecasting** [CBHB19]. **Forest** [HKB21]. **Forests** [BWG11, IBWG15, WP98]. **Formula** [BCMM03, HT14b, PDA09, Ush01]. **Formulas** [CK17, GS19, Ske00, SSVW17, WTG12]. **Formulation** [BR19, BCLT15, BM98, BH11, BPS13b, BGP21, BLP14, Bjo95, BJK02, BLM03, BRBT12, CW07, CRMC12, CCM08, Dl14, ERSZ17, EPSU09, GM17, GS16, GP99, Giv12, HMCK04, ISS19, JSZ13, KL06, KL10, KZP20, Kup01, LM08, LM20, LLL08, NV08, PHA18, Pat97, PEC +14, QZZ14, QRV21, RG09, RH09, SWN20, WZET13, YGS +21, YPHH17, ZVF18, dVM08, FCR93, LSM93, Nat97, PM95]. **Formulations** [AMM +11, AdWGV +20, AKM +14a, BB13, BHG14, DH01, GRL10, GKC13, GR04, HV07, KPS19a, LWCL03, MG11, MRFV18, PS11a]. **Forward** [BPR16, BRR18, BJW18b, BJW18a, CH09b, DP16, EVLW17, KY19b, MO10, MT06, VP10, ZS14, ZFZ14]. **Forward-Backward** [BPR16, DP16, MO10, MT06]. **FOSLL** [LMW15a]. **FOSLS** [FM98]. **Foundation** [Ber97]. **Four** [AO17, MM14]. **Four-Dimensional** [AO17]. **Four-Field** [MM14]. **Fourier** [BLS09, CRMC12, EMT99, GHR13, GMS18, RAT18, AW20, AT19, AD96, AC+17, ASS16, BS94, BBV13, BMK19, BR95, BR18, BVV08, BIA05, BHM19, BHM +21, BS06b, CI19, CFY18, CDY07a, CGC21, CD13, CPG20, DGI7a, DGLW16, DR93b, EBR00, EB96, EKSS16, FO08, FMB13, Gar00, GGL09, GP16, Goe97, GHR12, HRD21, Heg95, HHvR03, HMK97, Huc08, Inv02, KV12a, KRG019, KM12, LSYY21, Lyo11, MH16, NP96, NL99, NHH99, OW02, OGO16, Pek12, PP13, RGO10, RO12, RO15b, Sch96, WOW00, WO01, WM05, XAW17, Ym09, ZF09]. **Fourier-Based** [CGC21, CD13]. **Fourier-Cosine** [FO08, LSYY21]. **Fourth** [AP12, BS05c, BGN07, BT97, FL19, GB06b, Hen05a, KT05, KR11, LR20a, LPR02, LD16, MN18, PL03, RWX07, VP19, ZJC12, ZF14, Zha18a, ZWP21, ZSpH14, She94, She95]. **Fourth-[Zha18a]**. **Fourth-Order** [AP12, BS05c, BT97, GB06b, Hen05a, KT05, LR20a, LPR02, MN18, PL03, RWX07, ZJC12, ZF14, ZSpH14, She94, She95]. **fPINNs** [PLK19]. **FQMR** [SV01]. **Fractal** [JK21, PD15]. **Fractional** [AN17, AG18, ALLK15, ACN19, ADS21, AF15, BKM19, BCF13, BW21, BHK12, CRMC12, CZK15b, CZK16, CK17, CD15b, DMS18, DW15b, FMYT16, FF15, Fis19, GR17, GAD +21, GRPK19, GLW18, GZT +19, HO18, HP14, HLW00, HX21, JILGZ20, JILZ16b, JILZ17, LHL12, LMM18,
Li10, LWZ17, ILTZ21, LZZK17, LX16c, MS17, MMR19, MY20, Nik13, PKNS14, PNM16, PLK19, SXK17, TSX17, TYZ19, TWY20, WB12, WMHK19, XCLQ20, YTLI11, ZK14a, ZK14b, ZCZK14, ZAK15, ZLLT13, ZZZK15, ZLLT15, ZMK17, ZTBK18, ZZ16, ZLTA15.

Fractional-in-Space [BHK12].

Fractional-Step [BCF13].

Fracture [BPS13b, BPS13a, BSV19, EdDP09, HTW, HGPM14, MS07, PEdD12, Wic17].

Fractured [AFRV19, AGPR19, CDF18b, SCC17].

Fractures [BGPS21, FK18, MJR05].

Fragmentation [LGW19].

Frame [CDBH16, LFJS14].

Frame-Based [CDBH16].

Framelets [CCSS08].

Frames [Pir16].

Framework [ACHZ21, AD21, AGI16, ACD +08a, ACD +08b, BMNV20, Ban08a, BS16a, BBH +16, BMMR20, BBH +16, BOKCW20, CHH19, yCWHJ12, CKO15, DO11, DSZ13, DGVdZ18, FCF14, GH18, GPA18, IA14, JHJ12, JMNSe, KLRR17, KR00, Kyc12, LL19, LeC12, MFSY19, MBMT17, OS14, Pek12, PXY16, PMSG14, PBV18, PSFL20, San10, TC12, TIL15, TTY16, WL13, ZAD +16, ZH21, ZBD4AF20].

Frank [MZWG16].

Fréchet [AMHR13, HR14, KR17, LKVbW10].

Free [ARM +19, ABN21, AS06, BDM +18, BGM13, BDKR21, BTOY08, BBS15, Bog14, Bur97, CCKP21, CFSZ08, yCWHJ12, DFW21, DKS21b, FK00a, GY02, YCC +14, YCJ18, HKE +13, HV01, HQL +16, HY01, HHLW15, Isa20, KHZ15, KRDl18, KV13, KGT07, LP08, LT09, LXhH16, LTZT21, MS06a, MT99, MAK20, MYZ21, PDH09, Pz20, PTVR +14, RK07, Sch02, Str94, TY00, TZ18, WL01, WWY09, XZ10, YH17, YGS +15, vKCA11, vDVZdBI0a, vDVZdBI0b, ACW12, Bru15, Fre93, SKF18, TR93].

Free-Boundary [LTZT21, vDVZdBI0a, vDVZdBI0b].

Free-Form [PTVR +14, YH17].

Free-Space [Bur97, GJZ18, Str94].

Free-Surface [MT99].

Freedom [SV11].

Freeform [RTBAI21].

Frequencies [ZTK19, WM93].

Frequency [AIL15, BS95, BKS16a, BER17, CLL20, CHL16b, DT95, Den97a, ERSZ17, HV07, IJ08, KM13, K102b, LAG14, LQ19, LGCL21, OH21, RBH06, WY19, ZNZ16, Zim14, vLH14].

Frequency-Adaptive [IJ08].

Frequency-Domain [vLH14].

Frequency-Limited [BKS16a].

Frequency-Stable [OH21].

Friction [CEP20, GdLP +18, HMW07, HS08].

Frictional [CHH01, HS08, Kra09].

Fringe [NNH99].

Fromm [DT00].

Front [Aru12, BLGL11, BCS11, CL97, Dk00, GT98, GBCT10, GGL +98, GST +99, GM13, HC95, HY08, Hwa07, LS95, TWZ21].

Front-Fixing [HY08].

Front-Tracking [GT98, GBCT10].

Frontier [vDBF08].

Fronts [DBC13, TN16].

Frozen [DLY16, DL20a].

FSAI [JFG10, JF11, JFG13].

FSAI-ILU [JFG10].

Fuel [BK00b].

Full [BT21, CGK +98, CGG +14, DLP +21, EZ11, FEM08, LW20b, MBV013, OH21, PBC05, RGO10, SKN19, TH17, YHC16, YBM +18].

Full-Space [YHC16].

Full-Tensor [FEM08].

Fully [ABR17, AW15, AH06, AH12, BLR14, BW01, MG18, CF00, FCC10, GYZW18, GZW18, GVM14, HKA +21, HYC15, JW01, JLZ16b, KS18, KP17, LW00V3, LCK21, MRK21, NT18, RSD +20, TKC13, Wic17, YCC10, YC14, Yan21, ZHY21, Lam97].

Function [AP14, AP01, ADH99, AM05, BRI9, BCMW20, BBL00, BKT21, BCCX21, Bur97, DFQ14, DFW21, EFO20a, EFO20b, FMYT16, FM12, FT03, Gar07, GS12, GST09, GSTD12, GS19, GD07, HQR19, Hei13, HR14, JK07, JK10, JK15, JBL18, KR17, KV96, KMY05, KK09, KL13b, KLY19, KHRyWB14, Kup01, LSH17, LW19a, LSW17, Mir21, MR94, OG013, Pir16, Rad16, RT11, RM08a, SX16a, SX17,
SQ002, TLH21, TEE+17, WDG+18, Wen08, Wen10, WRS08, XEG06, XS17, XKWY08, ZKN20, ZSPL21, ten95, Car93, OS95, PM95.

Function-Based [Rad16].

Function-Related [FT03]. Functional [CAG+19, CH15, DP17, DMDN08, DKS21a, HSF07, HZ11, KY19a, KKR21, LY13, LD03, MP08, NR98, NMPF16, UWY+15, WL08, WH13, XZS11, ZKV99].

Functional [CAG+19, CCH15, DP17, DMDN08, DKS21a, HSF07, HZ11, KY19a, KKR21, LY13, LD03, MP08, NR98, NMPF16, UWY+15, WL08, WH13, XZS11, ZKV99].

Functional-Differential [ZKV99].

Functionals [AL07, GRPG01, Hof04, MNP07, ÖB05, SCDM+10, SBP04].

Functions [AMVR17, AM18, ALLK15, ACHN21, ACCP13, BCG15, BLMR02, BA10, BO07, BT04, BN98b, BF13, BN15, BGM09, BT20b, Bre17, CHR99, CGS02, CSZ20, CBN02, CVW06, DFS17, DZSN09, DG17a, DGK98, EHL05, FL18, FP07, FLF11, FS08, GLR07, GC19a, GG21, GJZ18, HK17, JP16, KJY21, JZX+21, KL94, LLHF13, LW16, LSYY21, LS00, MS06a, MS20, NH18, NSJ03, OR18, Rah13, Ros05a, SB13, Str95, TV98a, TW21, WSK99, WEL17, WTW17, WJMT15, XYZ05, XAW17, XD21, ZCPM20, ZCK12, ZH21, dBM21, FS96, NCV06, TAN93].

Fundamental [AFF+15, AA13, SK05].

Further [CLM00b, GG95, LZ99a]. Fused [BHL+20]. Fusion [PKV16]. Future [ETM99]. Fuzzy [CHX15, CRV13, vdHCDD15].

G [CGQ10]. G-NI [CGQ10]. GaAs [CCM05]. GaAs-Based [CCM05].

Galerkin [LWZ17, PP08a, SBND11, AB17, AM19, AD21, AW15, ACH13, AFRV19, AM20, BB13, BBHJ21, BDGK18, BH18, BB15a, BS15a, BS16b, BLY21, BK00a, BT97, Bse93, BCS11, BBT19, BDK12, BNV11, BSU19, BKB18, BG13, BG04, CDG17, Cas02, CNP12, CKQ14, CN99, CW17, CHW17a, CHW17b, CMS17, CVK13, CC19, CHH10, CDG+09, CS16, CGP19, CGI11, CRV13, CPB19, CRKSR07, DEN21, DLM16, DHJW08, DAE02, DMRR19, DGK21, DHE13, DWQY19, EKSW15, EAS08, EAS11, EAOS21, EVLW17, EPS09, FKM19, FS14, FF05, FRS19, FHL13, FK21, GKL11, Gas13, Gvd17, GH07, GL08, Gia18, GL+14, GK19, GG19b, GGK04b, GX16b, GC16b, GC17b, GY17, GX20, GML+21, GSM20, HMM17, HHE10, HS05b, HH20, HSM20, HRD21, HW21, HHr03, HLT16, HS01a, HS18, HS99c, HJX15, HXB11, HXB13].

Galerkin [HC20b, JBH20, Kan03b, KPS19a, KP21, KZK17, KSM18, KS11, Kim05, Kim08, KL13a, KG14, KL13b, KT08, KW18, KO13, LS99, LV13, LLW16, LS12b, LM20, LLLX16, LST20, LY20, LZK17, LY14, LXX16, LS17, LTW18, Liv15, Log03a, Log03b, LMMM04, LCK1, MN07, MRI08, MMT15, MST15, MKR13, Mu97, MWY17, Mu20, MYZ21, NP17, ORST12, OWL08, Pst20, PTT20a, PP08b, Pet05, PSS17, PH09, QS18, QSO5a, QSO5b, QS08b, RMC12, RG09, RSA05, ST08, SKWK18, She98, She95, She97, She99, SW16, SS10b, SSR21, Sm97, SD21, Str00a, SL96, SH20, TCZ19, TV11, TY15, Ull10, UEE12, WRS20, War13, Whi15, Win0, WvdZ5b, WS18, WX21, XQQ15, Xu04, XOS8, XOMN10, YAH14, YHL19, YCS16, ZKN21, ZCL11, ZKS07, ZW21, vSR11, vdVXX19].

Galerkin-Characteristic [EAS08, EAS11].

Galerkin-Characteristics [EAS021].

Galerkin-Projected [SBND11]. Games [And17, AHJS01].

Gamma [GST12, KB96, Luu15]. Gap [ABL19].

Gappy [PDG20]. Gaps [GK03, HLT16].

GARK [CR21, RSS20, SRS19]. Gas [BCM15a, CGK13, CF07, HC09a, LL98a, LXL11, NBB14, PL06, SM21, Ste11, TPW09, Xu99, YHS07, LL94, SRC93].

Gas-Kinetic [LXL11, Xu99]. Gaseous [VN03].

Gauge [BHST08, Chr09, DLY16, FM16, GS16, GH13, OH21, vLHH21].
Gauge-Invariant [DLY16]. Gaunt [RY03]. Gauss [Alp99, AM95, BR02, BMF12, Bog14, CDC19, Day98, DMZ21, EJJ08, FMRR13, GK11a, GST19, HT13a, JM18, KS17, Lan10, MR17, PZPR07, SMYS21, SVG10b, Swa02, TW09, Ver94, WG18, dSK11].

Gauss-Quadrature [KS17].

Gauss-Trapezoidal [Alp99].

Gaussian [AM04, ACW12, Bar12b, BGR10, BTGH12, CL18b, CS14, DLY16, DL20a, DN97, DW15a, FM12, FLF11, Fra98, GC19a, GS14, KOB20, LQ19, LLHF13, LCL18, LD04, MC05, PF12, PM03, PRM09, Rag95, RPK18, Ros06a, Tan93, WTS94, Wri93, YR98, Zim13].

Gaussian-type [MC05, Tan93].

Gaussians [KLY19].

GCROT [HZ10].

GCV [RVA17].

GDSW [HKKR19, HHK19].

Gear [PS97].

Gegenbauer [GJ05, Jac03, Kei09].

Gel [WGF08].

Gelation [EW00].

General [AW21, ABK11, AH09, ADK98, BK06, BCR99, BBD16, Br07, CN99, CG95, CGG07, CCA03, CS10c, Do11, DN19, EFOS20b, FL08, GCD21, GHHH17, GW15, HR96, HV01, HDZ16, Hum95, IFSJ21, KL15, KL94, KKS13, KHE07, KZP20, KWH94, LCD14, LSC03, wLxY00, LxdH20, OST11, PDA09, QZZ14, RK07, Saa96, SZ99, SS99, SZW20, TGS08, Vas10, WMHK19, Wat04, WZSL12, WT16, Xia13, Xia21, XZB11, Zen16, Zv05, ZSB16, WTS94].

General-Form [KHE07].

Generalised-Laguerre [BLS09].

Generalized [ET01].

Generating [CV93, FH21, GMS21, GKL08, KLY19, LST07, NS03, FS06].

Generation [AKM93, ADM95, BW95, CH99, CWL94, DF10, DKS21b, FH94, GVP06, HW14b, HBJ04, Kaw15, Km96, KR00, LC08, LCL18, Mac98, MBM96, OWL08, SP03, SSW18, Sch18, SK18, VGO20, de99, vdSF21].

Generative [GH14, KPPS14, YZK20].

Generator [GS14].

Generators [LSW02].

Generic [AD18b, BMNV20, MRS16, RS13].

Geometric [AKM13, ADM15, BW09, CH09, CWL94, DF10, DKS21b, FH94, GVP06, HW14b, HBJ04, Kaw15, Km96, KR00, LC08, LCL18, Mac98, MBM96, OWL08, SP03, SSW18, Sch18, SK18, VGO20, de99, vdSF21].

Geometrical [Du11, JW05, QL06].

Geometrically [AL99a].

Geometries [AA00, AO17, BBKK97, CCA03, For95, HBL05, MBGV16, PHA18, She99, Smi97, SAE10, TK13, TW16, WTM17, ABCM97, She97].

Geometry [AGR20a, AHT12, ADK98, KMS15, KC16, PNP13, SXX17, Tad20, TW03, WWM3, WS15b, XCM20, WM17, WMB19, WE06].

Geophys [FHR14, SFM20].

Geophysics [CGL12].

Geostatistical [Hri03, Hri05].

Geostrophic [BN21, CLP08].

Geothermal [AHN12].

Gerber [LSY21].

Ghost [GTK17, HK21, LXK08, OZ16, WLK06].

Gibbs [FP14, Hri03, Hri05].

Gilbert [BBP13].

Ginzburg [DJT08, GS16, Mu97, MDC98, NR98, VO19].

Given [BF16, SSDN12].

Global [BBKK97, BTGMS13, CP04, CS20, CV94, CAG94, CGDD11, EL20, FL08, GJP14, GAM13, GMJ94, KH14, KL13a, KW10a].
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Kul12, KW15, LV07, MS07d, PRM09, RW97, TGS08, vdHCDD15. Globalized [vWBV09]. Globally [BK08, BM01a, PBP14, TBKF14, YSK08, YSK19]. Glued [DPV05]. GMBACK [Kas95]. GMRES [ADGP07, BCGR98, BDJ05, BKL+17, BM01a, CGL+12, CGL+13, CHP20, De12a, DH21, DP03, EH+21, EMN17, FG98, GAMV13, GGL07, GGPV10, GT94, Jou94, KX96, LMW15b, Meu11, Mor02, PP08b, Saa93, VL10, WOW00, WWJ12, RF07]. GMRES-Based [CHP20, Jou94]. GMRES/CR [GT94]. Goal [CPB13, CCH15, DMRR19, LW12b, LW14, PDTVM08, RL13, SCW+17, vdZvBdB10a, vdZvBdBlb]. Goal-Oriented [CPB13, CCH15, DMRR19, LW12b, LW14, PDTVM08, RL13, SCW+17, vdZvBdB10a, vdZvBdBlb]. Godunov [DW97a, NMBAB11, Pem93, ZMC94]. Godunov-Type [DW97a]. Golub [GSR19]. Good [HW14b, ST97, Ten98, Wan07b]. Gordon [BDZ13, GML+21, Zhe07]. Gordon-Type [GML+21]. Governed [ABBT+20, LU17, NLS05, SS95]. GPBi [Zha97]. GPBi-CG [Zha97]. GPS [CP03b]. GPU [ACW21, BHL+20, BBD18, BTK19, CW17, CH16, DGK21, FMYT16, GHS+15, GHS+09, HECH14, LSN17, LGH+13, MDM15, NAC+15, RL18, RNR16, RHSK11, VTD12]. GPU-Accelerated [GHS+15, ACW21, CW17, CH16, DGK21, VTD12]. GPU-Based [GHS+09]. GPUs [DCP11, GLSTV16, YTD15]. Grad [LZT21, PTT20a]. Graded [BKS13, CWL+14, LC08, SSW12]. Gradient [ACY+20, AS21, ABF96, BD04, BL08a, BMT96, BCT00, BFJ16, BCP15, BCL99, CM98a, CM98b, CRS+18, CCC17, CEOR18, CDH98, CC20, CS10, DLZ17, DK10, DFG15, DEC05, Don06, DN19, Fie98, GW20, GS12, GY99, GRMS09, GZW12, GH99, GLC21, HR99c, HSY20, JVGV13, Kny01, KS13, Kup00, Kus00, LS16b, LC21, Mon20, NZZ06, Par17, SYEG00, SCMI10, SM94, SPI16, SO97, TBO10, UWY+15, VHS020, VMV15, WS07, WZGO21, WJW21, WTP21, ZCPM20, ZN05, ZZW14, ZZZ21, Zim13, ten95, Car93, NP96]. Gradient-Based [VHS020, ZCPM20]. Gradient-Enhanced [Zim13]. Gradient-Particle [Kus00]. Gradient-Weighted [CM98a, CM98b, Kup00]. Gradients [AJ99, GRPG01, NR98, Not00a, PF12, RN95]. Grain [KLT06, Man99]. Grain-Size [Man99]. Grained [BO12, But13, CP15a, WAS16]. Graining [AKPRB08]. Gram [GL03, Ste08]. Gramian [BB08a]. Gramian-Based [BB08a]. Grandchild [DT95]. granularities [BME93, BEM94]. GRAPE [NKT08]. Graph [AGR+20a, BLV17, BGL+21, BTY08, CC97, FFS07, GKM+17, GS05, HL05, HS06c, HWZ21, KPPS14, LT09, LB12, MC09, NN17, OKLS15, Sch10, VSS14, WZSL12, JP93]. Graph-based [FFS07]. Graphic [WHCX13]. Graphics [BBFJ16, BCFJ19, KMSM14, Nov15]. Graphs [Ash95, ABL+20b, CS11, DHPAH19, ES18b, FB21, FMS17, HOU+19, KK98, KPCA12, KPP+14, KV13, OW014]. Grassmann [DS96, DH16]. Grassmannians [SS10]. Gravitation [TJK16, WX21]. Gravitational [LXL11]. Gravity [CK15, KPS91b, LRP07, Pet93]. Gray [TW21]. Greedy [BW18, BW21, Lin16, MS07b, MS07a, MS13, Zha20, ZW16]. Greeks [KS08, WWH17]. Green [Bur97, EHL05, ZZ18]. Greengard [Ahu96]. Green’s [GJZ18]. Greendem [FMS17]. Grid [AT17, ALMT20, AG17b, AW19, BAC08, Ber95a, BVW09, CWX15, CJO5a, DF10, DGL+12, FL97, Fer98, GI17, GV13, GKT09, GR05b, GC16b, HKF+13, HLH15, HBL05, HS94, ILK05, Jam98, Kn96, KR00, KR521, LMPQ03, Lem16, LZ21b, LNL98, MS07a,
MK08, MY18, NNRW09, OB21, PCFN16, Pet99a, Pup99, ROM18, SP03, SY10b, SY12, TCZC19, TT06, WL11, WHCX13, WLZ18, WO01, Wu18, XBC96, Xu94, Yav98, ABCM97, Atk94, TV93, VBT99, CP13, NJ14, SAB14, ZTRK14, ZNX14.

**Grid-Based** [HKF+13]. **Grid-Free** [HKF+13]. **Grid-Particle** [CP13]. **Grids** [ABBM98a, ABBM98b, ADR14, AD20, AFRV19, AD06, BGD08, Bea20, BH12, Bit99, BL05, BKS98, CH94, CKV99, DFQ14, DMBB10, DRW20, EZ11, FS14, FUNB18, FO19, FEM08, Gär09, GGL09, GMSB16, GZW18, GOV06, HL20, Hen05b, Hen06, HH11, JKY21, KN21, KH00, KP12b, LE10, LO14, LDM00, Mac98, MV09, Mau95, NX12, PZZB15, Pet99b, RT01, RW01, RHSK11, SJR09, SR16, SNB16, TW05, TC12, VHS20, Wan01, WM10, WK03, WPGR13, Wu99, Yam02, YPHH17, YYY11, Zen16, ZF09, Zie12, bZOW07, BZ96, Pet93].

**GRINS** [BS16a]. **Gross** [DK10, DP17, PQR20]. **Ground** [BD04, BL08a, BR19, DP17, LC21, TCWW20, VS17]. **Ground-State** [VS17]. **Groundwater** [JKKM01]. **Groups** [Mit08, XD21]. **Growing** [DH11, EJ19, FO18, FFSS13]. **Growth** [BHV05, Bol03, BCG+10, CS94, JLGZ20, KLT06, KW10b, SSM+20]. **GRP** [SZZ21, WT16].

**Guaranteed** [CC06, CC11, LC05a, LC08, NN12, Wall3]. **Guaranteed-Quality** [Wal13]. **Guesses** [ACW21]. **Guidance** [Lee09]. **Guided** [Fli13, TH17]. **Guides** [CC12b].

**h** [ST98]. **Hadamard** [KP17]. **Haemodynamics** [CDFQ11]. **Hagedorn** [FGL09]. **Half** [DT00, GHTW00, HPZ19, LZK17, NN05]. **Half-Quadratic** [NN05]. **Half-Space** [DT00]. **Half-Staggered** [GHTW00]. **Halftoning** [GPS12]. **Hamilton** [Abg09, BFS16, BHT11, BL03c, CCFP12, CCF14, CCF16, CFR05, DKK21, GI99, HW13, HS99c, HJX15, JP00, KK18, KNP01, LNS06, LT00, LPS13, MN07, MK00, NZGK21, RR98, TW05, ZS03, ZHL21].
DV20, EEO01, ED95, EOVO5, EIJH20, 
GMN02, GZ16, GH13, GAD+21, GMO14, 
GHR12, GHR13, GD03, HRT03, HIT19, 
HZ16, HL17, HW09, KMW15, KQ02b, 
KKS21, KL13a, KRT21, LQ19, Lar99, 
LMRR00, LJ19, LY16, LB06, Liv15, MRS04, 
PATF19, PELY13, SAB14, Sto21, TET10, 
WZC19, YBLH16, ZND18, ZZ18, vGEV07].

Hemodynamics [BCF13, FGS14].

Hermite [GML+21, AHV18, BS05c, BLS09, 
Bia94, BR95, HOY03, HCW20, KLY19, 
MS07d, MS17, SV13, Tan93, VMM13, 
WB00, XH15, ZCQQ21, Zim20].

Hermitian [BCR03, BGLY05, BGL06a, CGL+13, 
CT94, FF94, FGN93, Fre93, FS08, HSCTP04, 
KXH21, KPT16, KMR01, Lan19, LXV+16, 
MS06b, PPB13, Sta07, SM07, SVX15, Tre93, 
VD10, VK15, VYX16].

Hessenberg [BK17, AkK18, KT15].

Hessenberg-Triangular [AKK18, KT15].

Hessian [BGR16, BBR08, BTGH12, DM16, 
FLX21, FWA+11, HM10a, KH14, LMSS97, 
Mön08, PABG11, W MUZ13].

Hessian-Based [BTGH12, FLX21, KH14].

Hessian-vector [LMSS97, BBR08].

Hessians [ABBT+20, GTMP07, Sch18].

Heston [GM21, HiH18, iW11].

Heteroclinic [BLS14, BGS09, BK17, BOKCW20, 
CSS10, CHW17b, CMS17, CVYK15, CDB13, 
CQK07, EOVO5, GV19, GC19b, HMRR19, 
HM+13, KK02b, KKL+16, LZ04, CML19, MB19, 
PELY13, RS17, WPT17, YS16].

Hierarchical [BG18, HR96, MZW09, JP93].

Hierarchical [ABBT+20, ABLM19, BG14, 
Bör99, BTK19, BIA05, BFL07, CPS20, 
DKXS18, EGS21, Ett16, FVV21, FH+18, 
Fra98, GRS+15, GKS98, GMPZ06, HSL06c, 
HLR18, ILW17, JZT08, KD20, LS20, LO11, 
MDC08, ODS14, Ong97, OVV17, PCD17, 
RW07, SLO13, VW98, ZBdAF20, Ain96].

Hierarchically [GC19+19, Nov15, WL+13].

Hierarchical [AGJT21, FR15].

High [ACVZ12, Abg09, AD14, AT20, Ain14, 
AJ12, ACG20, AHT12, ADGM08, ABBG16, 
AT19, ADK+18, ABL20a, ANP00, AM20, 
BB17, BT06, BOB+19, BMF19, BAFF00, 
BM08, BBH+16, BM05, BPR99, BG20, 
BBDD, BZ15, BLR14, BER17, BV16, 
BTT13, BP06, BTGW08, BCDE21, C19, 
CL11, CL18b, CCL20, CCJ21, CSS93b, 
CCKP21, CDK19, CS18a, CW18, CGV18, 
CMM00, CSS03, CW15, CDF18b, CLAT10, 
CD15b, CJKX15, CEP20, CM010, CFTJ18, 
CAG+19, CK94, DW97a, DW98, DHH09, 
DTR21, DRK12, DKK+19, Doh11, DMRR19, 
DKK21, Dor10, DS16, DQWY19, DL20b, 
DMD+12, DMM14b, E1L+09, FHFR13, 
FMW19, For06, FM07, FK21, GH07, GH15b, 
GM17, GG19a, GG14a, GG19b, Gob08, 
GZW20, GV16, GH14, GM15b, GM19b, 
GX16b, GC16b, GLW18, GX20, GM04, 
GN07, HHT03, HLD12, HJ18a].

High [HSMT20, HJ07, HBL05, HRT13, Hen06, 
HC20a, HMM+21, HV07, ISG15, IFJS21, 
JBB02, Jam98, JK07, JK11, JW13, JLZ17, 
JZ00, KK18, KP09a, KK98, KL05, KPL13, 
KV05, KK02b, KW16, KS14, Kup98, Ld12, 
LO11, LAG14, LQ19, LS95, LFB13, LOL13, 
LL00, LG09, LLLX16, LY20, LT00, LS20, 
GW19, LLZW19, LGCL21, LSPR21, 
LUM93, LX16b, LCR20, LNA+11, LX16c, 
MBX15, MXYB16, Mat18, MC10, MRS14, 
MAK20, MDC08, NZGK21, NHSS13, NX12, 
NJ14, NH12, NS06, NKM10, ODN17, Ols07, 
OR18, PT99, Paz20, PL06, PVK16, PDA09, 
PSDF12, PPB13, PJ96, Q518b, Q506b, 
RLN07, RW07, RMB00, RMC12, Ros05a, 
Ros06b, STCK21, SRS19, Say15, SLvDGK14, 
SKWK18, SY10b, SY12, Sm04a, SD10, 
SC98, Ste16, Str99, SJD14, TW05, TCZ19, 
TAY+19, TT20, TMM20, TM14].

High [TPB17, Van20, VDOR20, Vii15, 
WS05, WMC12, WBTG18, WSK99, Wel20,
Wen08, Wen10, WMBT19, Win06, WRS17, WSX17, WS20, Wu21, WZ21b, WX21, XB16, XQX15, XH05, YZZ19, YCS16, ZNZ16, ZS03, ZLS12, ZSB16, Zha18b, ZHQ20, ZFZ14, ZLTA15, ZHL21, ZLJ96, Zin00, ZbdAF20, bZOW07, vdHccd15, BSMM16, [BY93].

High-Accuracy [Dor10, JZ00, ZLJ96, Zin00].

High-Dimensional [BTWG08, CL18b, CAG19, DTR21, GH14, GC16b, HJ07, JK07, KK18, LSPRV21, MXYB16, NZGK21, NJ14, PVK16, RW07, SY10b, SY12, Sma04, Ste16, TMM20, WS05, bZOW07, vdHCDD15, DKK21].

High-Fidelity [NKM10, TAY19].

High-Field [GV16].

High-Frequency [BER17, KK02b, LQ19, LGCL21, ZNZ16].

High-Index [YZZ19].

High-Level [FHFR13].

High-Order [ADR14, AHT12, ADGM98, ABIIG16, AT19, ADK+18, AM20, BT06, BOB+19, BMF19, BPR99, BBD16, BBL14, BTT13, BCDE21, CH19, CCKP21, CDK19, CS18a, CW18, CGV18, CMM00, CDF18b, CEP20, CMO10, CFJT18, DW97a, DW98, DDK12, DKK+19, Doh21, DMR19, DWQY19, DMM14b, GH07, GM17, GM14a, GZ20, GM15b, GM19b, GN07, HHT03, HSM120, HRT13, Hen06, HMM+21, ISG15, JBB20, JLZ17, KP09a, KL05, KPL13, KW16, LO11, LL20, LCR20, LCR20, MC10, MAK20, NS06, ODN17, OLS07, OR18, Paz20, PDA09, PJD97, QS18, RKLN07, RMG12, ROS05a, STCK21, SRS19, Say15, SC09, Sth99, SJD14, TTM12, TPB17, VB07, VGOR20, WMC12, WSK99, WMBT19, WS20, Wu21, WZ21b, WX21, XH05, ZS03, ZHQ20, ZFZ14, ZbdAF20, ABL20a, CS93b, LSM93].

High-Performance [BB17, Mat18, PPB13, Van20, WRS17].

High-Resolution [BAFF00, CCSS03, FM07, HBL05, Kup98, LD12, LFB13, LOL13, LT00, PL06, Ros06b, BSMM16].

High-Reynolds [BY93].

High-Speed [HC20a].

Higher [AABM13, AL97, BCR11, BM11, BR19, CG07, DFS17, DS14, DGP18, DS97, GmvdV18, GMS21, ILK05, Kye12, Lzc20, LE10, Lin06, LMRS21, LD40, MGG19, PWF18, Pen93, PRM97, RRR05, VVM12, WGT14, XH15, YSS07, Zha18a, dVM08, vdVXX19, ZMC94].

Higher-Dimensional [DFS17, LD40].

Higher-Index [AL97, PRM97].

Higher-Order [AABM13, BCR11, DGP18, GmvdV18, GMS21, ILK05, Kye12, LMRS21, PWF18, VVM12, YSS07, dVM08, Pen93, Zha18a, ZMC94].

Highly [AKT16, BMP14, BHT00, CSS09, GH09, HA01, HW14a, HM+13, HX21, HSY20, Ket08, KC16, KG+20, KR12b, OGO16, RSG17, Sch98, Vil14, YP98].

Hilbert [ZK14c, AE95, TY08].

Hilliard [GHMY18, KW07, AL19, BS15b, HYW20].

Histograms [CSB+18].

Historical [CRS+18].

HITS [FLM+05].

HLLC [BCLC97, CLLY20, Gru04, Pel18].

HLLC-Type [CLLY20, Gru04].

hm [MRK20].

hmm-toolbox [MRK20].

Hodge [GH13].

Hodgkin [BN13, CRS20].

HODLR [MRK20].

Hole-Cutting [Pet99b].

Holistic [NL20].

Holm [LX16a].

Holonomic [KM11].

Homoclinic [LMR97, LCH99].

Homogeneous [KS19, YZ07, YZ08, GM17].

Homogenization [AB17, CC16, HP20, Kna98].

Homogenized [GLL21].

Homology [PSKG13].

Homotopy [LZ99a, Oet99, TVV20, WWYX20, ZLG98, ZFwCW15, LL93].

Hopf [EMSW12, GM96, MCJN94, WAS94].

Hopfield [Wan07a].

Hopping [CL18b].

Horizon [AFS19].

Horn [SWB16].

Householder [DHH09, MOHvdG17, YFS21].

hp} [HS01a].

hp-Adaptive [HS01a].

HPC [AKK14, CHV+18, GKK10].

HQRRP [MOHvdG17].

HSS [GLR+16, MRK20].

HSS-Structured [GLR+16].

Huber

Huxley-Type [CRS20]. Huygens [Luo19]. Hybrid [AG18, Alp99, ABL20a, BB13, BBP21, BC10, BC06, BCSS14, BBD18, BCE21, CPS20, CP13, CDF18b, CLL13, CEP20, CP15b, CS17, CFH19, CDN16, CGDD11, DW98, DP10, DGLW16, DRW20, FR15, FS12, GJLX16, GH07, GR5+15, Gon15, GKK10, HL20, HKLW21, HKB21, HEGH14, HMM+1, Jcds21, JW08, JP14, Kar96, KK02a, KSB11, Ko04, LW12a, MRT00, PEdD12, RT10, RVA17, ST17a, TTM08, VTD12, WDG+18, WWKP13, WS15, ZCQ21, ZH09, vdHCDD15, FS13].

Hybridizable [CDG+09, CS16, FKM19, SSR21]. Hybridization [DKL+19]. Hybridized [BEH+19, HRD21, WMBT19]. Hydro [LXK08]. Hydro-Elasto-Plastic [LXK08].

Hydrodynamic [CCKP21, CYZ17, GZYW18, GZW18, HNS08, LXL11, OB08, ZYLW16]. Hydrodynamical [ANP00, BI09].

Hydrodynamics [AT17, ALMT20, ADK+18, DW97b, DKR12, Gon15, STCK21, WSA16, WT16, Wu21].

Hydrogen [VS17]. Hydrostatic [ABB+04, BSA13].

Hypercubic [AG18, Alp99, ABL20a, BB13, BBP21, BC10, BC06, BCSS14, BBD18, BCE21, CPS20, CP13, CDF18b, CLL13, CEP20, CP15b, CS17, CFH19, CDN16, CGDD11, DW98, DP10, DGLW16, DRW20, FR15, FS12, GJLX16, GH07, GR5+15, Gon15, GKK10, HL20, HKLW21, HKB21, HEGH14, HMM+1, Jcds21, JW08, JP14, Kar96, KK02a, KSB11, Ko04, LW12a, MRT00, PEdD12, RT10, RVA17, ST17a, TTM08, VTD12, WDG+18, WWKP13, WS15, ZCQ21, ZH09, vdHCDD15, FS13].

Hypercubic [AG18, Alp99, ABL20a, BB13, BBP21, BC10, BC06, BCSS14, BBD18, BCE21, CPS20, CP13, CDF18b, CLL13, CEP20, CP15b, CS17, CFH19, CDN16, CGDD11, DW98, DP10, DGLW16, DRW20, FR15, FS12, GJLX16, GH07, GR5+15, Gon15, GKK10, HL20, HKLW21, HKB21, HEGH14, HMM+1, Jcds21, JW08, JP14, Kar96, KK02a, KSB11, Ko04, LW12a, MRT00, PEdD12, RT10, RVA17, ST17a, TTM08, VTD12, WDG+18, WWKP13, WS15, ZCQ21, ZH09, vdHCDD15, FS13].

Hypercubic [AG18, Alp99, ABL20a, BB13, BBP21, BC10, BC06, BCSS14, BBD18, BCE21, CPS20, CP13, CDF18b, CLL13, CEP20, CP15b, CS17, CFH19, CDN16, CGDD11, DW98, DP10, DGLW16, DRW20, FR15, FS12, GJLX16, GH07, GR5+15, Gon15, GKK10, HL20, HKLW21, HKB21, HEGH14, HMM+1, Jcds21, JW08, JP14, Kar96, KK02a, KSB11, Ko04, LW12a, MRT00, PEdD12, RT10, RVA17, ST17a, TTM08, VTD12, WDG+18, WWKP13, WS15, ZCQ21, ZH09, vdHCDD15, FS13].

Hypercubic [AG18, Alp99, ABL20a, BB13, BBP21, BC10, BC06, BCSS14, BBD18, BCE21, CPS20, CP13, CDF18b, CLL13, CEP20, CP15b, CS17, CFH19, CDN16, CGDD11, DW98, DP10, DGLW16, DRW20, FR15, FS12, GJLX16, GH07, GR5+15, Gon15, GKK10, HL20, HKLW21, HKB21, HEGH14, HMM+1, Jcds21, JW08, JP14, Kar96, KK02a, KSB11, Ko04, LW12a, MRT00, PEdD12, RT10, RVA17, ST17a, TTM08, VTD12, WDG+18, WWKP13, WS15, ZCQ21, ZH09, vdHCDD15, FS13].

Hypercubic [AG18, Alp99, ABL20a, BB13, BBP21, BC10, BC06, BCSS14, BBD18, BCE21, CPS20, CP13, CDF18b, CLL13, CEP20, CP15b, CS17, CFH19, CDN16, CGDD11, DW98, DP10, DGLW16, DRW20, FR15, FS12, GJLX16, GH07, GR5+15, Gon15, GKK10, HL20, HKLW21, HKB21, HEGH14, HMM+1, Jcds21, JW08, JP14, Kar96, KK02a, KSB11, Ko04, LW12a, MRT00, PEdD12, RT10, RVA17, ST17a, TTM08, VTD12, WDG+18, WWKP13, WS15, ZCQ21, ZH09, vdHCDD15, FS13].
SY12, SM07, VW98, WTW17, YZ08, ZLBC03. II. [CPV95, SVX15]. III
[ABH03, GS02b, Hes98, She97]. Ill
[BS07, Bur13, Bur14, CH17, CCS98, FKN+20, HR96, KO99, Lan10, LM17, MF19, NM13, PS01, Reg96, RS02, SBC93, TO15, VW94, Di 95, HO93]. Ill-Conditioned [BS07, CH17, CCS98, FKN+20, MF19, PS01, Di 95]. Ill-conditioning [SBC93]. Ill-conditioned
[BS07, CH17, CCS98, FKN+20, MFJ19, PS01, Di 95, HO93]. Ill-Posed [BS07, Bur13, Bur14, KO99, Lan10, LM17, Reg96, RS02, TO15, VW94, HS17, HR96, HC98, JK21, KR06, Leh15, LZ99a, LXES19, LT14, MCT+05, ML13, McL07, NRSD18, SC10, ST00, VW98, WL13, XH15, ZK96, FGN93, Got94, Heg95, Log03b, Smi93]. Implementations [BDM+18, GKNW18, Ket08]. Implemented
[CPG20, Yan19]. Implementing [EFOS20a, EFOS20b, LST07, LZ99b, Van20, YYWY18]. Implicit [AT20, ADP20, ALJ99, AAI98, AH06, AC09, BF06, B215, BPR13, BBM+15, BQR18, BWS12, CBBK16, CM08, Che16, CR21, CCG14b, CS10h, CM08, CPB19, DW98, DL11M, DMD+12, DB07, EL20, Ema97, EF05, GH18, GRL10, GKC13, G16h, HC05, HM09, HYC15, JWC21, JLP18, JR96, JR98, KSM18, KW15, LL02, LM05b, LCK21, MR09, MS070, MO10, NNRW09, NK10, ODN17, OS98, PP05, QF18, Rak21, RHL+21, RMC12, RG09, Sem10, Sk09, TKCC13, VV15, VD10, WS04, WSA16, YCC10, YC14, ZEG19, ZTBK18, ZSB16, ZSO2, dRLT09, vdVX19, BCT05, GC16a, KS13, Lam97, LIE93, TV93, vd97]. Implicit-Explicit
[AT20, ADP20, AAI98, BPR13, BQR18, CBBK16, CR21, CS10h, CM08, CPB19, DW98, DL11M, DMD+12, DB07, EL20, Ema97, EF05, GH18, GRL10, GKC13, G16h, HC05, HM09, HYC15, JWC21, JLP18, JR96, JR98, KSM18, KW15, LL02, LM05b, LCK21, MR09, MS070, MO10, NNRW09, NK10, ODN17, OS98, PP05, QF18, Rak21, RHL+21, RMC12, RG09, Sem10, Sk09, TKCC13, VV15, VD10, WS04, WSA16, YCC10, YC14, ZEG19, ZTBK18, ZSB16, ZSO2, dRLT09, vdVX19, BCT05, GC16a, KS13, Lam97, LIE93, TV93, vd97]. Implicit-Expicit
[AT20, ADP20, AAI98, BPR13, BQR18, CBBK16, CR21, CS10h, DW98, GKC13, JLP18, ODN17, VS04, ZSB16]. Implicit-Modal [KSM18]. Implicit-Solvent [WSA16]. Implicit/Explicit [DMD+12]. Implicitly
[BCR03, BR05a, DP20, FG020, JN10, LVWV03, PHA18, Say15, ST16b, SSW98]. Importance
[EBB+11, Kaw17, Kaw18, Kol99, MDG+18, QDKW18, WLP20, ZWH+14, ZWH21]. Imposed
[BBS19, Vl09]. Improve [DJ07].
Improved [ACdS+11, AMH12, ALRT17, AL07, BGH+03, DM16, DDF00, DG16, FO19, HL95, HR98b, JSPC97, Joe95, Lee10b, LGP14, MP20b, MT19b, Nik00, PQOB14, Pol16, RX17, TLH21, ZF14].

Improved-Quality [Joe95]. Improvement [BGS17, BDE08, TEE+17]. Improvements [BMR10, Cho01]. Improving [AAB+15b, BDJ05, CZ13, GSS00, GG10, HR98a, KV13, MS06b, NL20, PDE+17, RF07, SRI+18, vSRV11]. Impulse [CC08, Cor98, MIS03]. Impulsive [YZY09]. Inaccuracies [CSS09]. Inaccurate [Kou09, TEE+17]. Incident [ABL20a]. Incident-Field [ABL20a]. Including [CAB04, CGX21, JSV10, LM12, LM21, MN11]. Inclusions [AIL05, AILP07, CHZ21]. Incompressible [AMMR10, AMM+10, ABM+13, AB19, AABM13, ACW21, BB13, BBSW15, BCLT15, BSSW13, BL07a, BW11, BS15a, BKKW19, CPW15, CRS21, CC12a, ICCVEK17, CHH10, CST+13, DDO0, DL17, DLTO5, EAS11, EAO21, EMSW12, Fa03, FMW19, FGO20, FF05, GHTW00, GHST98, GK98, GGS08, GXZ21, GM15b, GM19b, HSB20, HHHK19, HK07, JK00, KGGS10, KCZ15, KPS19a, KVO15, KGB18, Kup01, LW12a, Lay96, LL03a, LPMR19, Lui01, LCY+20, MS06a, OSCE00, PWZ10, PT01, PSC+16, SBHS19, SY10a, SW070, SF09, SO09, TLN14, TLLK09, TAY+19, WGS17, WG20, ZHS10, ZVF18, ABS96, ABCM97, SS93c]. Inconsistent [BW21]. Incorporate [LP03]. Incorporates [Bo03]. Incorporating [IP06, McG95]. Increasing [MKRK13, RZTK+15, vSRV11].

Incremental [KGM+08, ZCC+16]. Indefinite [BHT00, CKY98, CPS11, DDKX18, EPV94, GW98, GG03, HS06a, HSCTP04, MM19, MGW00, NV98, PV95, SIS96, ST98, VK13, XS17, dSL05].

Independent [AD20, BV07, BVW03, CKLL16, DP10, HTB+05, JK12, MXB15, MR07]. Index [ABST13, AL97, BCC07, GFS95, GW00, MB00, MB02, MS93a, MMV13, PR97, RMB00, RN17, Sch05, TBKF14, YZZ19, Lam97, MT97a]. Index-Aware [ABST13]. Indexing [BG12, ZS99]. Indicator [ACHN21, Ber98b, Pic03, ZWG21].

Indicators [QS05a, VR16]. Indices [HAG17]. Indirect [CG14]. Induce [SvG10a]. Induced [CC98, DMM+16, Kla98a, KWW13, LRP07, LP08, NG18, SE16]. Inductance [MS07c]. Induction [HS99a]. Inductionless [LNZ19a, LNZ19b]. Industrial [ERSZ17]. Inequalities [BW96]. Inequality [BL07b, KB08, KP12a, Lee13b, wLxY00]. Inertia [CP95, LR07, SWW08]. Inertia-Gravity [LR07].

Inextensible [LHL12, LO19]. Inf [HS06d]. Inf-Convolution-Type [HS06d]. Inf-Convolution-Type [HS06d]. Infeasible [HS06d]. Inference [AVA+18, DKM14a, LW12b, LW14, Peh20b, Rei13, YGS+21]. Inferences [FL18, GR04]. Infinite [APSG14, APSG16, AS18, Bla98, BTGMS13, Coa12, GJ17, GM98, GKNW18, HLP21].
JMR17, NHSS13, PMSG14, PSSW15, SD11]. Infinite-Dimensional [APSG14, AS18, BTGMS13, PMSG14, APSG16]. Infinite-Variate [GKNW18]. Infinitely [IK10]. Infinitesimal [CR21, RSS20]. Influence [BCCI98, EHL05, KS15b]. Information [CLNZ16, DGS08, EBSS+11, GRT05, GKRb05, KdS05, MGG19, PVK16, UG19, YTT21, Car93]. Informed [BT20a, CYDK21, LPY+21, PLK19, WTP21, YZK20, YZL20, ZGK20]. Inherent [KW10a]. Inhomogeneity [LLS19]. Inhomogeneous [ABBM98a, ABBM98b, AM19, BV20, CHZ21, FDS13, Kon21, ZCZ04, ZB12]. Initial [ACW21, BHP98, CGAD95, Cas05, CV94, DKO12, FS02, For06, GG13, HJ18b, IM97, LV07, LZ21a, LMM18, LK98, Pat97, Rán93, Sar97]. Initial-Boundary [FS02, For06, LZ21a]. Initial-Value [GG13]. Initialization [FLM+05, GB98, KOB20]. injection [SS95]. Inline [FDH+20]. Inner [DHZ+21, EMN17, GGGL10, GY99, HJ19, OKdSG17, Won16, Saat93]. Inner-Iteration [DHZ+21]. Inner-Boundary [GGGL10, GY99, OKdSG17, Saat93]. Innovations [Kca97]. Input [AA14, BTWG08, NS21]. Input-Output [NS21]. Inputs [BBC+21b, CJGX15, CAG+19, JLP18, KKN21, KP21, LZZ0, XHo5]. Insect [EKSS16]. Insertion [CC12b]. Insights [DMM19]. Inspirals [FNL+19]. Instabilities [CSS09, MIS03]. Instability [LP04, Mat95]. Instantary [And17]. instructions [Goe97]. Insulators [AcS+11]. Integer [JF16]. Integral [AAAH+19, AHK+17, AL99a, ATV07, ADS21, AC95, ACD+08a, ACD+08b, BHK14, BQR18, BV98, BIYS00, BS06a, CDK21, CDY07a, CP03a, CP05, CP07, CCA03, CCC18, CCI8, CGMV05, D011, D13, Du16, GCS19, GS18, GPK04, GK98, HW15, HO18, HS05b, Hel11, HJ18c, HSZ12, HS99b, HW09, HV07, JVG12, KX96, KL13a, LS99, LL11, MG11, NKLW94, Nas09, NAS13, Nit99, PATF19, PRM09, PS19b, QZZ19, Rah00, RU01, Ros06a, RD21, ST98, TW03, VGOR20, VPP05, XEG06, XZB11, XCLQ20, YCZ13, YR98, ZXY21, ZB12, iW11, ABCR93, Atk94]. Integral-Equation [MG11]. Integrals [BT13, BD99a, Car07, EJJ08, GKNW18, GGL04b, Inv02, ISS06, KKS13, LS12b, Li10, LW16, PDA09, Wen08, Wen10, Yun03, YK03]. Integrate [BS15a]. Integrated [IT14]. Integrating [LLJF21]. Integration [AT19, BCRR99, BL07b, BV09, BGMW17, CSS09, CKN06, DEP11, Elh06, FFK+14, GV07a, GH18, GM98, GC16a, GS02a, GS19, HS97, JSPC97, KP12a, KKN18, LS12a, LL03b, LD04, Man05, McL95, Mic01, Mis01, PBP14, Pat97, PS19a, PVC17, PP12b, RMR15, STCK21, Ske00, Vi15, WZS14, Yun03, ZS14, AGC96, Rán93]. Integrator [AE18, BDZ13, BLRR99, BV16, Cas05, EL18, GG13, KGB18, KL00b, TT20]. Integrators [AB16a, AMH11, AV21, BB05, BCS14, BCCS21, BT19, Buv20, COR13, CRS20, CMO10, DMD+12, DSL21, FMY16, HLS98, Jah04, KM19, LV20, LW16, MWW0a, MMWV13, SZS97, Vi15, CSS93a, LMSS97]. Integro [AH18, SE11, ZV05]. Integro-Differential [SE11, AH18, ZV05]. Integrodifferential [MSW05, Win10]. Intensity [MR17]. Intensity-Preserving [MR17]. Interact [Men94]. Interacting [KKP14]. Interaction [ACFO9, BQQ08, BR19, BC10, BB15a, BKF19G, CHV+18, CDFQ11, FUNB18, FGS14, FKTW10, GSV20a, Gu93, HDB08, KV05, LQR12, LW20b, MKWG15, NV08, PVV11, RR98, RW13, SOTB21, ZVF18, vBDb05]. Interactions [AKPRB08, DW97a, DCL+21, GGM01, HHLZ21, JXL21, LT21, XCl20, ZZZ21]. Interactive [DTT+16]. Interconnecting [LOS07]. Interest [GV07b, LQX14, MvST13, ZBFN17].
Interface
[AL02, AC04, AC05, AdWGV+20, BMD016, BP13a, BEH+19, BCDE21, BFSN08, CFGM11, DL17, DQY13, DFL20, DK33, ES17, EHS19, FKQ17, FK00b, GGLT00, GGZ02, HLLM15, HCRT13, HBSC97, JW05, JLY08, KMW99, KGR16, KLT16, KS15b, KSW20, LHL12, LO19, LL97, LL03a, LI01, LWCL03, LY20, LD05, LGR20, MR18, Mu99, NKM10, QS14, QSV06, Rei18, SSVW17, SF99, TLLK09, Wan04, WCHZ14, XW05, ZEG19, ZD09, ZF14, Zha18a, ZLY+18].

Interface-Preserving [SF99].

Interface-Strip [QSV06].

Interface-Type [JW05].

Interface/Multigrid [AL02].

Interfaces [AWW19, BG20, CG99, GSV20a, KBP17, MJR05, MK96, MRS16, WP19, ZWP21].

Interfacial [HM98, MR18, SF99].

Interior [ACCO00, BHT09, BB08b, BCL99, CMS17, CSW10, CFM98, rFS12, GvdV17, GHKS14, KV20b, KM16, Pla98, PBJ+96, RG07, RN14, SVX15, TK13, VK15, WWY11, dMHJM00].

Interior-Point [ACCO00, CSW10, CFM98, GHKS14, Pla98, PBJ+96].

Intermediate [FNL+19, Pat97].

Intermediate-Mass-Ratio [FNL+19].

Internal [DQY13, Hwa07].

Interpolant [AS16, Ber00b].

Interpolants [EM99, FM12].

Interpolating [AF11, BT19, Har11, Hol99, KW10a, Por01].

Interpolation [AGSZ16, AD18a, AWV19, AN16, AKM+14a, BLS06, BLB00, BEE18, BG21, BCK+18, BCF+00, Cai95, CD19, CA07, CV07, CD15a, CW15, CS10a, CH94, CW12, DEM+20, DD12, DFQ14, DMBB10, Doh07, DKS21a, DG16, DHO12, GL18, GLS13, GD07, HV01, Isa20, ILM17, JKY21, KLY19, KLZ+06, KP07, LW19a, LR99, LSY21, LN04, MH17, MS07d, MC10, MS20, NK15, NX12, NX13, OST11, PBWB14, PDG20, PATF19, PRM09, PJ96, SV13, Sai20, SBK18, TGC94, VMM13, Vas10, WCS00, WB00, WTG12, Wel17, Wel20, WRS08, XH15, XZ10, XZ14, ZN16, ZCK12, ZHQ20, ZZ16, ZH21, Zim20, vHBTC12, AE95, Anj93].

Interpolation-Based [BG21].

Interpolations [RKLN07].

Interpolative [BCY21, LY17, PHY20].

Interpolatory [BBG11, GSW13, dSGK+15].

Interpretation [BGMW17].

Interpreting [SS10b].

Interrupts [LNP15].

Interval [BDMFL04, CGS02, GCB04, Kea97, McL12, SV03, Ym03, Jam96].

Interweaving [MSB+15].

Introduction [Elm98].

Introductory [BV19].

Intrusive [GLL+14, GLMN15, GN19].

Invariance [BB05].

Invariant [ARM+19, BP12, BDF08, BV16, BDE08, BBK06, Chr09, DLY16, DDF00, DB94, EL01, EL03, FD03, GPSY17, GNPT18, HKM97, LLD99, LSU11, LX16a, RWD19, VP11, Wu21, YY18].

Invariant-Region-Preserving [Wu21].

Invariants [CHAMR06, SBS98].

Invasion [WP98].

Inverse [AB08a, AMI12, APSG14, APSG16, AS18, AV017, AA13, ABBT+20, ADL+12, AHDK14, BCS07, Ban08a, BL03a, BYZ19, BSHL14, BH20, BC06, BK08, BMT96, BT98, BT00a, BCT00, BFJ16, BCFJ19, Bo03, BS05, BESS19, BT01, BGR16, BDR18, BBR08, BTG12, BGM15, BGMW17, BJW18b, BJW18a, BH14b, CPS20, CDG05, CBG12, CYDK21, CS98, Cho00, CDY07b, CN10, CO011, CEO11, CS17, GM00b, CM10, CP17, DSZ13, EMSW12, FLU+20, FWA+11, GSO17, GLN14, GY02, GS98b, GHR12, GHR13, GMS18, HHP21, HN20, HC05, HERT13, HAS20, HP94, Hös94, JFG15, JKM14, JL19, JZX+21, JCD21, KY19b, LLZ08, LM14a, LZ17b, LLSX21, LWG10, LNC05, LPY+21, LvL21, MWBG12, MZ94, NP10, NRSD18, OGO16, PYY11, PMSG14, QZZ19, RKBDA14, RCC18, SSW18, SKN19, SCC+15, SCW+17, SLO13].
TVA02, TLT12, TP99, VV05. Kutta-Based [GMM15]. Kutta-type [AM17].


Lagrangian [BW11, AT17, ALMT20, AS16, AVBTG17, And17, AH12, H1R12, BMTZ13, BSMM16, BO06, BP13a, BF14, BCV13, CPH14, CTB15, CDF18a, CF07, CJY16, KMW99, KW00, LC21, LCSN15, YHC16].

Lagrangian-Based [BW11, BO06]. Lagrangian-Remap [BCV13]. Laguerre [BS05c, BLS09, DJLZ96, LZ94, LZ99b, Nik00].

LAMG [LB12]. Laminar [JMN01]. Laminated [Li03]. LAMMPS [WSA16].

Lanczos [WX19, ARMNW10, ADRS95, BCR03, BR05a, BF01, CJKD13, DGBK98, rFS12, FGN93, GH15a, GJ17, GT94, JN10, LXV+16, MS93b, MN11, Ng00, RG98, SZ00, Ste02, YC99, ZTK19, ZS18, ZMS21, vDEH05].

Lanczos-Based [CDK13]. Lanczos-Type [RG98, ZMS21]. Land [WK08]. Landau [AB16a, AHK+17, BBP13, DJT08, GS16, LM05b, LW20, Mu07, MDC98, NR98, VO19]. Landscap [GCN21]. Landwebber [BDE08]. Langevin [AWA+18, CDK21, KM11]. LAPACK [AM10, DMPV08]. Laplace [ACN19, BS94, Bar14, BW15, BSS17, CK03, Che13, ED95, Nak98, OK13, Pet01, WLZ18, Wei99, YCZ13].

Laplacian [AN17, AG18, ADS21, AO17, BLV17, BGL+21, BI00, CQZ17, CS16, DS20, GGM01, LB12, MY20, NN17, TWYZ20, WZGO21, XEG06, vGEV07].

Laplacians [HW221, SXK17, XCLQ20]. LAPW [SDNC20]. Large [AVBTG17, ACG20, AL07, BCR03, BS05a, BW18, BW21, BST08, Ban08a, BS05b, BOR97, BSSW13, BBKS20, BT03c, BHT09, BPSV15, BDF08, BTY08, BES19, BS99b, BCL99, BTW08, BTGH12, CFK05, CDGS05, CGK13, CCQ16, CN10, CP15b, CS17, CG17, CSW10, CFM98, DDMQ18, DS00, DD00, DIJ08, DL05, DZK09, EAS08, EPE05, FWA+11, FSvdV98a, FB95, FGH+08, GGS19, GLSTV16, GSR19, Gug16, H1N9, HMST11, HMAS17, HPS08, HLS98, Hor04, H1L7, H1J9, J1R9, JN10, JZ13, KFR21, KS20, KV13, Kus97, Lab05, LM00, LAG14, LT09, LWG10, LZ13b, LXH16, MGD19, MBG12, MS04, MW01, NNRW09, NvdP00, OKF14, PS18, Pen00, RS02, RMD08, RM08a, Ros15, Ruh98, SBR06, SWW08, SWB16, ST17a, Sim07, SC02, SvG08, SVX15, Tor12, TS14, VDD19, WPL+13, WWYX20, WM05].

Large [BT08, EAS08]. Large-Particle [SC02]. Large-Scale [AVBTG17, BCR03, BS05a, Ban08a, BSSW13, BBKS20, BHT09, BTO8, BCL99, BTW08, BTGH12, CN10, CP15b, CS17, CSW10, DDMQ18, FWA+11, FB95, HMAS17, HPS08, JR19, KFR21, KS20, LT09, LWG10, MBG12, OKF14, PS18, RS02, RM08a, SBR06, SWW08, SWB16, Sim07, SVX15, VDD19, WWYX20, WM05, WT01, WRS17, Xue18, YPN+01, YGB+05, YMM14, YSK19, ZYSL15, ZC+16, AMB+94, BHP94, Dax93, DL97, JS93, ST94, TW93]. Large-Eddy [BST08, EAS08].

Largest [HR16]. Laser [CBK18]. Lasso [AW21, KASL21]. Latency [GAMV13]. Latent [ZS99]. Lattice [BS08, BYK05, CLDS19, CKN06, DSB99, Del14, FKK+14, HHSW11, HHL00, HYC15,
HYC16, JK00, LL03b, Rei18, Rei20, SR16, SBX+08, WS06, Wan07b, ZZY20, Eht96.

Lattices [SLO13, SSN19]. Launch [EHW00]. Law [AGH00, CHR02, DMZ21, FMR06, GGK+04a, ISS19, TW17].

Lawrence [DG99]. Laws [AB02, AD06, BLMR02, BF16, BPR99, BT20a, BBC+21b, CGV18, CW13, CW14, CW16c, CLL13, yCWJJ12, CK94, DGLW16, DS16, DBSR17, DB07, FK19, FK21, GR05a, GB12, GMS02, HH02, HBL05, HC20b, JTR98, JZS13, KL00a, KNP01, KPP07, KPW17, LP00, LPR02, LLLX16, LD16, LST20, LN03, Mar94, NMA81, PPR05, PRS19, QL18, QL08b, SL11, ST17a, SMR01, SJD14, TW12, Tor12, TLE12, TW95, WDG+18, YHQ12, ZD19, ZQ17, dLRT09, BH97, Pem93].

Lax [JSZ13, Kol99, LD16, MR01, QS03]. Layer [AK09, AH09, ADM+15, Bar14, BWV15, BHNPR07, BS06b, CKK20, CM98c, FV06, Far01, HKB21, KPP07, LG09, TT96a, WK18, YW21, aKT18].


Leading [Che05, LLW19]. Lean [LB12]. Leapfrog [Tie18]. Learned [HL21]. Learning [BGM09, BCP15, De 12b, DTR21, GHK14, GRPK19, HRP20, HKLW19, LCG21, LC21, NZGK21, QCJX21, SM19, TP21, WR+15, ZGK20, dBMZ11].

Least [AMMR10, AMM+10, AMM+11, AB+13, AV14, ALMR17, AD15, AMT0, BLH02, BGM13, BT03c, BKDR21, BSQ9b, BW96, BKM10, BLM03, BMTT14, CLM+00a, CLM+00b, CPV95, Car10, CH20, COS21, CAS11, CC19, CP17, DDF+12b, DMMO04, DMMO05, DG98, DP20, DMMO20, DSS20, EHS+07, FMM98, FGHO97, FS11, FNB06, GW17, GI17, GKK15, GNYZ18, HLM06, HLM+09, HP21, HK17, HM20b, HY10, HY14, HJLZ18, JR19, KR18, KMS15, LSH17, LMMR00, LFB13, Lee14, LM15, LMM17, LRS02, LD11, MWY17, NP14, NP17, PE00, PF97, PB+13, QQQO99, RDB16, R+17, ST16b, ST17b, Sco17, ST19, SX16b, SMYS21, Sta00, Str93, TZ14, TLH21, TBO10, WWY20, Wat98, WPT17, Xs16, You94, YW21, ZCC+16, ZWZ+13, ZN14, ten95, BR95, Dax93, NP96].

Least-Degree [NP17]. Least-Squares [AMM+11, AV14, ALMR17, AD15, AMT10, BGM13, BKDR21, BKM10, BLM03, CPV95, COS21, CC19, CP17, DMMO04, DMMO05, DG98, FS11, GNYZ18, HLM06, HLM+09, HY10, HY14, JR19, KMS15, LMMR00, Lee14, PB+13, R+17, ST16b, Sco17, ST19, Sta00, TZ14, WPT17, Xs16, ZN14].

Least-Squares-Based [MWY17]. Legendre [BK00a, BM12, Bog14, EJ10, HT13a, HT14a, HT14b, IBM01, JM18, She94, Swa02].


Length [MH16]. Lens [LW20b]. Leslie [CGGS15]. Level [ARS21, BC10, BP13a, BH11, Bre00, CDG03, CGG07, CGL01, CDM+13, Cho09, CJ05b, DS00, DKP17, DV20, EPV94, Fa01, FH13, FM07, HKR16, HL20, H+13, KKV13, KKP14, KL15, KS13, KKK18, Lan98, LCG21, LQH21, LY217, MB17, MO00, MO10, Mvd21, NKM10, QL06, RS00, SF09, T+07, Tu07, Vog16, W+18, WWM03, Wen10, WZ19, ZCI06, Cai94, CCI06].

Level-Set [CDM+13, LCG21, LQH21, RS00]. Levels [ABB+16, RNN16]. Levinson [Str00a].

Levy [SB13, CD15b, GDLS14, IT09a, LZ16, LFBO08, ZK14c]. Liapunov [CCJ07].

libMesh [BS16a]. Libraries [DARG13]. Library [BMM19, BS16a, CGC21, LEXS19, MXYB16, NAC+15, PMCA15, RTR+16, ZS14].

Lid [TV11]. Lid-Driven [TV11].

Lie [MW08a, Mis01]. Lifshitz [BBP13, AB16a, GM20]. Lifting [SV03].

Light [GPZ17]. Lighthill [BCV13].
Lighthouse [JMNS16]. Lightweight [DKKP14]. Like [BGOD08, CL21, DMML05, JL20, KO99, KP11, WG00, WM11, ABCR93, BN13]. Likelihood [ACW12, TV98a, Zim13]. likelihoods [WTS94]. Limit [ACO98, BS18a, BCK16, BPR13, CDN16, CHL16a, CHL16b, DJT08, DLV17, GKD05, JLY08, KSB11, Kla99, LS12a, LM08, ZD09]. Limit-Cycle [KSB11]. Limitations [RLG98]. Limited [BL03a, BKS16a, BGR16, BLNZ95, GG09, KLS08, LM99, ZD09]. Limited-Memory [BGR16]. Limiter [AS06, GK19, JX13]. Limiter-Free [AS06]. Limiters [MB13, QS05a, QS05b, Ser06, Zen16, vdVX99]. Limiting [GB12, GNPT18]. Limits [GV16, XS08]. Line [BD99a, HV96, LZK17, OS15, SV08b, SV21, YY18, ZHDZ17, HHRV93]. Line-Relaxation [HV96]. Line-Surface [SV08b]. Linear [ARMNW10, AB08a, APSG14, AS18, AW20, ABST13, AHT12, AF11, ABE+17, ABCP08, ACD95, AD15, AKM+13, ACW21, BGLY05, BW18, BW21, BS95, BDJ05, BCC198, BH20, BvG15, BDM11, BL04b, BM95a, BT98, BBK15, BM01b, BHK14, BCC16, BW96, Bre99, BC99, BCM9, BM11, BC08, BC09b, BK11, BEPW98, CS99, CLMM99a, CLMM10b, CP15, CGL+13, CB98, CGG07, CJIH11, CSDS21, CH17, CH18, CN12, CS96, CN99, CHe98, CJGX15, CY17, CLB21, CG10, CNL12, CF05, CHM02, CS10c, CPD17, CFM98, DDF21a, DA00, DLY14, DB98, DH01, DNH17, DMMO04, DH21, Ded10, Dl14, DKXS18, DMR19, DS14, DHZ+21, ES18a, Ema10, EZ94, EMNS20, EGK94, EPS09, Ett16, FGM13, FGM14a, FGMP14b, FH06, FWA+11, FT03, FM06, FG98, GG13, GMY18, GvdV17, Gie19, GMvdV19, GNL14, GG03, GZY18]. Linear [GB98, GG05, GPA18, GOS03, GT19, GW00, HR05, HN19, HS06a, Hag00, HCRT13, HN06, HAS20, HZ10, HPZ19, HM20a, HP21, HG12, Hof04, HRS12, HDF+19, HSCT04, JFG10, JZ13, JP08, Jou94, Kas95, KLR98, KZ00, KP21, KM18, KW00, KR06, Kra08, KSV16, KMR19, KMRW97, LM00, LV98, LFH19, Lee13b, LR20a, LM08, LM17, LLZ08, LLZ09, LSN17, LZ21b, LW12b, LZK17, LXdH16, LB12, LKBJ18, LJC16, LN04, LrL21, MPS18, MKSG10, Mar09, MB02, MYN20, Meu11, MW13, MN11, MZ19, MGW00, Nat98, NP08, NMFP16, Ökt05, OD12, PNW16, Pdh09, PsDM+06, PSB+06, PL21, PSA99, PB+96, PMSB12, PN19, QOQP09, Rah96, RG07, Roe98, RX18, RTR+16, RKW20, SZ99, SS99, ST08, SBP04, ST16b, ST17b, Sco17, ST19, SX16b, Sma04, SmI97, SvG08, SSC+15, SCW+17]. Linear [Sta94, SO10, Str93, Sun95, SS08, SW10b, TCZ19, TT07, Ton94, VBB99, VM13, VK13, WLX+13, WM05, Wi09, WC17, W19, XS17, Yan94, ZG10, ZTBK18, Zha97, ZV05, ZS14, ZYS15, ZSB16, ZZ12, ZP20, ZQ21, ZSP21, ZGG17, ZFHS15, ZTM+16, Zim14, ZLJ96, ZSP0, ZSL05, AM95, ABo96, AZ95, BGLY05, BW96, Bre99, BC99, BCM9, BM11, BC08, BC09b, BK11, BEPW98, CS99, CLMM00a, CLMM00b, CPW15, CGL+13, CB98, CGG07, CJIH11, CSDS21, CH17, CH18, CN12, CS96, CN99, CHe98, CJGX15, CY17, CLB21, CG10, CLN12, CF05, CHM02, CS10c, CPD17, CFM98, DDF21a, DAA0, DLY14, DB98, DH01, DNH17, DMMO04, DH21, Ded10, Dl14, DKXS18, DMR19, DS14, DHZ+21, ES18a, Ema10, EZ94, EMNS20, EGK94, EPS09, Ett16, FGM13, FGM14a, FGMP14b, FH06, FWA+11, FT03, FM06, FG98, GG13, GMY18, GvdV17, Gie19, GMvdV19, GNL14, GG03, GZY18]. Linearization [HAN19, KT15, Slo02, vdZvBd10a, vdZvBd10b]. Linearized [BTGMS13, BT16, HG02, HNS08, HBS00, KLN20, Mu97, OB08, WY12, WY13]. Linearly [BBM+15, EL20, GKL08, LST07]. Lines [CCC17, HRT13, KMT98, WY18, WH13]. Linesearch [BS03, To96]. Linkage [CCS+19]. Linked [CDY07b]. Lions [HJN17]. Liouville [AF15, Bou01, LV10, ZAK15]. Lippmann [ABIGG16, LY18, ZNZ16]. Lipschitz [HC21]. Liquid [AAB+15a, AEMM16, BLGL11, CYZ17, MMR15, RG13, VPP05].
[BBKS20]. **LSMR** [CP15b, FS11]. **LSRN** [MSM14]. **LSTRS** [LSMV11]. **LU** [CP15a, CKLN98, GDL07, GBDD10, GCD18, KN21, PT08, WZSL12]. **Lubrication** [BG06a]. **Lumped** [BCF13, GMvdV18, GMvdV19, KLJ10]. **Lumping** [Sch13]. **Lyapunov** [EL01, EMSW12, Kue12, LW16, PS18, Pen01, Sim07, YWL17]. **Lyapunov-Type** [EL01].

**M** [AFF+15, BOF16, EZ11]. **M-** [EZ11]. **M/M-EEG** [AFF+15]. **MAC** [HLW13]. **Mach** [Cllly20, DLV17, Nba+14, Pel18]. **Machine** [BP97b, BGM09, GRPK19, HKLW19, HKLW21, ST94]. **Machines** [BDS98, BZ12, BFJ00, GAMV13, TW93]. **Macro** [JS10, LLS13, LM08, LM12, PV08]. **Macro-Elements** [PV08]. **Macroscopic** [BK18, Cha07]. **Made** [GG09]. **MADNESS** [HBB+16]. **Magma** [RWK14, RWK15]. **Magma/Mantle** [RWK14, RWK15].

**Magnetic** [CPH14, CCL+20, DEM+20, ST03]. **Magnetohydrodynamic** [CLTX15, HRT13, NH14, Ros06b, Tor05]. **Magnetohydrodynamics** [AMMR10, AMM+10, ABM+13, ABC+16, ABC+21, ALJ99, BT06, CCJ12, CRS21, CFJ18, DW97a, DW98, Gur04, NvdP00, WG20, WS18, ZMC94]. **Magnetostatic** [Lab05, FSA99]. **Magnetostatics** [BBMR03, GLL+15]. **Magnitude** [CLNZ16]. **Magnus** [KM19]. **Mak** [Ske09, WJW21]. **Making** [ZJ13]. **MALA** [TM20]. **MALA-within-Gibs** [TM20]. **Malliavin** [CPG20, WR13, ZRK15]. **Management** [LMKG16, PWG16, YCN21]. **Mancino** [CPG20]. **Manifold** [BSW16, MRS14, Sma01, TP21]. **Manifold-Valued** [BSW16]. **Manifolds** [BCF01, CEOR18, DH16, DG20, LL17, LLD99, LSU11, LYL17, QZZ14, RO18, SWN20, WS95, ZZZ04, Zim20, vVKA11, RST93]. **Manipulation** [MBM+16]. **Mantle** [RWK14, RWK15]. **Manufacturable** [SSW12]. **Many** [AL99b, BKK18, CL18a, GHHb, GKN18, KMV05, LXZ20, OR09, RTR+16, SM07, XCS16, vdDA12, RKvdDA14]. **Many-Body** [CL18a, LXZ20, XCS16]. **Many-Core** [GKN18, RTR+16]. **Many-Particle** [BKK18, GH15b]. **Manycore** [FKMR19]. **Map** [CV16, CRV14, vdZvBdB10a, BG10, CPP+17]. **Mapped** [CW16a, GSW17, LO14, Lem16]. **Mapped-Grid** [Len16]. **Mapping** [Ann98, BT03b, Ban08b, DP98, D97, DV98, GHHb, HW94, HL95, MNN20, Nas09, Nas13, Por01, WK18, YCN21, ZF14, Zha18a, de 99, CDH97, PS93]. **Mappings** [AAB+16, And08, DLZ06, HQR19, Vas10]. **MapReduce** [CGHT14, KPP+14]. **MapReduce-enabled** [CGHT14]. **Maps** [CGGP19, EL01, EL03, GKKM07, HT09, NXDS11, NS21, SO15, VO19]. **Marching** [ABMR11, BZ15, Cho01, CDG10, DBC13, KMO97, PC21, Yan19, TN16]. **Marine** [SBMR18]. **Marker** [MCT+05, NKM10]. **Markov** [BBB+11, BKS16b, CKB16, CE17, Day98, DS00, DMM+08, DMM+10b, DMSW10, DMM+10a, EHL06, FV21, GaPo8, KTSB19, Kus97, SMM07, TY11, WZGO21]. **Markovian** [BD05, Peh20b]. **Martensitic** [NNW97]. **Masking** [GTK+17]. **Mass** [AJ21, AH06, CL97, CD20, FNL+18, FL19, GMvdV18, GMvdV19, HRT10, HLMM06, HLM+09, KLY05, KLY07, LR12, LP03, MR21, MR17, RCL18, Sch13, SBHS19]. **Mass-** [MR17]. **Mass-Conservative** [FL19, MR17]. **Mass-Conserving** [FL19, MR17]. **Mass-Lumped** [GMMV18, GMMV19]. **Massive** [BSV19, KPP+14, MDC08, PVK16]. **Massively** [BRK16, CFM98, DGR+17, FNL+19,
GCB15, GAMV13, HW94, HGRW16, JHJ12, Pip13, SR16, ZSD+10, MH95. Master [DHJW08, Jah10]. Matched [AH09, BHNPR07, CM98c, Dur16, HMRR19, Luo19]. Matching [Ami94, ABL+20b, DHPAH19, GLT18, HW01, KH00, KPP+16, LLS19, San10, SSJB17, WPG11]. Matchings [HS06a]. Material [ADK+18, BW01, HHLZ21, SPS18, Sha21a]. Material-Energy [BW01]. Materials [AHT17, AFMP15, EIL+09, SP03, SBX+08, WRB+15, ZCW10, TCC18]. Matern [CWA14]. Mathematical [ACCP13, BHN10, GLL01, GR04, GKT09, KK13]. Mathematics [Mar01, WKM07]. MATLAB [BK07, BT04, GKD05, MRK20, SR97, Wal18]. Matlab/C [Wal18]. Matrices [AKA13a, ARS21, AT15, AP+04, BDD+97, BN05, BGL06a, BK16, BOR07, Ben01, BHT00, BdvdG05, BC13, BL99, Bør07, Bør09, BTK19, But13, BHK20, ÇAK11, Che13, CGMR05, CV98, DLP05, DHH09, DPV05, Di97, DW05a, EK10, FH21, FS08, FKN+20, GWG03, GMvdV19, GSR19, Gug16, HMAS17, Han95, HJS99, HK00, HWS05, HTT97, Ips01, JN10, JP11, KKT13, KKL05, KLST06, KS07, KOV15, KSM14, LLHF13, Lee13a, LSC03, LS13b, LNC05, LYL+11, MO08, Mar16, MV16, MMR19, MRK20, Meu01, Mön08, NP10, NL99, Nik00, Not00b, PKNS14, PCD17, Q508a, RT99, Ros15, Saa96, SCPT04, SO18, SSH06, UA04, UA07, VD10, VL10, VK15, Vir07, Wan97, WS15, Xia13, Xia21, XC13, ZGA10, AMB+94, BW93, CS97, Di95, FS96, FF94, FGN93, Gut93, Jin95, Lan93]. matrices [May08, Nag93, NCV06, Tre93, Tre97, BM12]. Matrix [AJ21, AKA13b, AA14, AMH11, AMH12, AMHR13, AMHR15, AM18, ARM+19, ABBT+20, ADL+12, ABLM19, ACW12, AKM+14a, AD15, AVW13, ABB+16, BBP21, BCT07, BSH16, BDM+18, BGM13, BSS09, BDKR21, BF05, BFK03, Bja19, BC13, BESS19, BH13, BTK19, Bru15, BG12, BSS21, CKOR16, CA16, CD19, tVÇAU10, Che16, CI216, CL08, CG11, DM16, DKGS15, DN97, DKK+19, DHP17, DGB+15b, DGK98, DKGW19, DCP11, EZ11, Elb06, EBSS+11, FHI+18, FMYT16, FK00a, FSvdV98b, FS08, GH15a, GSO17, Gar97, GKM+17, GCG+19, GG21, GT94, GG94, GHS+15, GKN18, GCD18, GL10, GG95, Hag02, HW94, HR14, HR16, HK17, HPZ19, HC21, Hös94, ILW17, IL16, KXX21, KR17, KT15, KAU18, KL94, KP11, KS20, Kna98, KR00, KRDL18, KMR19, KHW+14, KV13, LS20, LV98]. Matrix [LPS10, LIJWY20, LS2Y, LXdH16, LXD+21, MV00, MKSG10, MB99, Mat95, MDM15, MAK20, MWG16, NH18, Ng00, NRSD18, OKLS15, OD12, Paz20, PSS17, PV94, PV95, QQQvdG01, RO18, RX18, RN14, Ru98, RCO18, SDR15, SvdGP16, SZ00, Sim07, SLO13, SQ02, TS11, TW13a, TTYC09, TQ+16, UA04, Van20, VSS14, WSZ14, WLL+15, WH09, WP20, XC20, YPHH17, YB09, Zha96, ZJX14, Zim20, vVKA11, vEH05, BR95, Jam96, Nat97, OA93, YL93]. Matrix-Dependent [Kna98]. Matrix-Free [ARM+19, BDM+18, BGM13, BDKR21, FK00a, GCG+19, KRDL18, LXH06, MAK20, Paz20, vVKA11, ACW12, Bru15]. Matrix-Matrix [AA14, BG12, GHS+15]. Matrix-Valued [GG94, GG95, HST18]. Matrix-Vector [AKA13b, KHW+14, KV13, LXD+21, MDM15, UA04, WH09]. Max [GG94, GG95, HST18]. Max-Plus [GG94, GG95]. Maximal [TCDS21]. Maximization [ZW18]. Maximum [ACW12, AW11, BI09, DGS08, FH06, FK19, GY09, IMS96, JX13, LI01, LLLX16, LY20, LLF21, ILTZ21, LY14, RGG15, SY18, TV98a, WBTG18, XQQ15, YCY19, YWL21, ZLS12, Zim13].
Maximum-Principle-Preserving [XQX15]. Maximum-Principle-Satisfying [LLLX16, LY14, ZLS12]. Maxwell [APZ13, AHZ17, ACHZ21, AA02, BBB14, BGH+03, BHST08, BV09, CGG+14, CWZ07, CHMR10, DGGG09, DF99, DTYY18, DMZ21, EKSW15, EDGL12, ERSZ17, GMS18, HP20, Hen06, HH11, HTB+05, HY14, HHILW15, HHL15, J05b, JZ00, LHL11, LX16b, MCL19, McG95, MP94, MS12, MSV00, NHSS13, OH21, PS10a, PL12, PKS21, PSC18, RMR15, RT01, RL10, RW01, RGG06, SSW18, ZCW10, ZZ18].

Maxwellian [Gos12b]. May [KHU96, RMB00, TW95].

MCMC [Bar12a, BH20, FL18, MWBG12, PMSG14]. MCMC-Based [Bar12a]. McMillan [Hok20]. MD [ZLBC03]. MD-DCT-II [ZLBC03]. MD-DCT-IV [ZLBC03]. MD-DCT-IV/MD-DST-IV [ZLBC03]. MD-DST-IV [ZLBC03]. MD-DWT [ZLBC03].

Mean [And17, Bru18, CS94, Don06, GDLS14, Hof05, KS17, KS15b, KKK18, LTT16, MT97b, Ren15, RW06, Tim19, VP14]. Mean-Field [KS17, LTT16]. Mean-Square [MT97b, RW06].

Memory [AKK14, AAB+16, ABL+20b, BBSV10, BDD+97, BT03c, BvVG+10, BFJ00, BGR16, BLNZ95, DJ07, Gon15, GKK10, GKN18, HKR02, HWD02, JWC21, KRDL18, LLM09, LWZ13, LFLS08, MGDB19, MC12, OA20, PF94, PR96, Sta07, SM07, Sun96, SH20, Til15, TD99, VM15, XXdH+17, ZV05, NP03a]. Memory-Aware [AAB+16]. Memory-Efficient [AAB+16].

Mechanical [AL99b, BPT19, CSS10, HW09, RN14]. Mechanics [BB17, BLH02, BBSW94, Ber98b, BW09, BHR96, BW09, BWG11, BH17, CTPS20, CHR99, CHR02, CPB13, CDK19, Che94, CWL+14, CC06, CC09, CC12b, yCWHJ12, CLK18, CRR18, DFP15, DDGS16, DLT05, DLT06, DMR19, DK21b, EHL1W20, FK00a, FR10, FCC10, FJP99, GP06, GT98, GW20, GHTW00, GMT98, HMM08, HKA+21, HO15, HR07, HS99c, Hua05, HA08, IS17, JTZ08, JIP97, KM01, LMKG16, LPR98, LY20, L05a, L08, L0L18, MMRN15, MN07, MNRI19, MH17, MCB18, M08, MY2Z1, MGH21, MM07, Ols07, PWF18, PR05, Pol16, RL17, RH06, RWX07, SR18, SKF18, SL09a, SRI+18, SMR01, Tra95, VGOR20, WC00, WH15, WP19, WCH14, XOMN10, YHQ12, ZJC12, ZAD+16, ZHQ20, ZWH15].
Mesh-Adaptive [MH17]. Mesh-Free [yCWHJ12, DKS21b, SKF18].

Mesh-Independent [BVW03]. Mesh-to-Mesh [CRR18].

Meshes [AKS05, AD18b, AMP00, BMNV20, BMNV21, BB17, BGPS21, BBD16, BKS13, BH16, Ca95, CH09a, CDG17, CGZ99, CHW17a, CHW20, CFJT18, CKRS07, DKK19, DFK16, DFJS19, DGK21, DBSR17, EFL09, FCZE14, FCM12, GW15, GH07, G19, Gob08, GS19, HSMT20, HKZ21, HH16, HG00, ISG15, JV96, JHJ12, KZP20, KWG19, KZ16, KRR21, LNSZ06, Li95, LTW18, MLL13, MB13, MTTV98, MKRK13, MV21, PABG11, RKNL07, RL18, SB10, SV08a, Sh99, SY08, SY09, SV03, SC02, Tal15, TAH15, TPT+16, VBT99, ZS03, ZHQ20, ZMS10, ZP18, ZP20, ZQ18, Ain96] Meshfree [BM17a, BWZ21, COR13, COS06]. Meshing [BH00a, BL04a, BSV19, HGPM14, VO19].

Meshless [FDS13, Lin16, SK19, TPB17]. Mesoscale [BRK16, RG09, YC14].

Message [BS98]. Meta [TCC18].


Metallic [PS10a, ZMQCS21]. Metamaterials [CCC18, HLY13].

Metastable [Kue12]. Method [AB17, AM19, AG21, ACY+20, ABMR11, AG17a, AG18a, AD18a, AD19, AHN+20, AFF+15, APAG16, ALMR17, ABV21, AA13, Am98, ALJ99, AF11, ACC00, And17, AKBM21, ABPW21, AF15, AHDK14, AP12, ABCP08, AH04, AH06, AW11, AHH12, AHR12, AP99, ACCP13, BA05, BS08, BMNV21, BCR03, BBP21, BS05a, BGL06a, BW18, BW21, BM10, BLMR02, BT03b, BO07, BV05, BJ01, BS05c, BLS09, BDZ13, BMTZ13, BS18a, BGOD08, BV03, BG10, BSHL14, BDGK18, BB10, Bar99, Bar05, BOF16, BRT07, BBC+21a, BC06, BK08, BG98, BM01a, BEEM18, BSS09, BL04b, BMDO16, BPT+14, BM95a, BMT96, BCT00, BH12, BP13a, BLS14, BPS13a, BM01b, BHK14, BV20, Bet08, BK04, BLP14, BK00a, BFN17, Bjs95, BT97, BCSS14, Bla03, BI09, BLGL11, BGH+03, BBCK16, BU15, BB16].
Method

[GM19a, GH99, GKT09, GJZ18, GS00, GS02a, GS02b, GHKS14, GV09, GXZ21, GS21, Gug16, GC97, GX16b, GC16b, GC17b, GY17, GLW18, GSV20b, GSV21, GN07, HM05, HMM07, HRT10, HG08, HJN17, HQR9, HK19, HP14, HM98, HN20, HW14a, HR07, Haz08a, Haz08b, HLLM15, HZXC16, HR99a, HRT03, HIT19, HKR16, HLW00, HBL05, G09, HM05, HHM07, HRT10, HG98, HJN17, NAS13, NRMQ13, NT18, NS06, NM13, NMAB11, NVdP00, NHH99, NKM10, Ob13, OS15, OX17, OQRY18, OTV19, OR18, PRS12, PDMV08, PR09, PS10a, PKD13, PW12, PHJ11, PBWB14, PZBB15, PL12, PNP13, PTT20a, Pen00, P08a, PT01, PEdD12, Pla98, Pol16, PvdVvG17, PS10b, Por01, PD15, PO09, PBZTB+15, Pup99, PM15, QL06, QS05, QS08b, QSM19, RO18, RRR03, RRR05, RG13, RG03, Re13, RMC12, Ren15, RU01, RNV19, RW01].

Method [KR17, KNN12, Kan03a, KMT98, KV05, KP06a, KP11, KO17, KP12b, KS19, Kla99, KW00, KL13a, KLY07, KS17, KP10, KR99, Kuy01, KM16, KS13, K099, KC16, KH18, KG16b, KLR19, KO13, KL11, LW12a, LH12, LP11, LP13, LG20, L01, LSV17, LMR15, LCG21, L99, LSH17, LLP98, LMR98, LL02, Lay03, Lay06, Le09, LS13a, L17a, LG97, LL03a, Lec10a, L13a, Lee14, LE17, LPMR19, Lie15, L19, LCD14, LQF21, LZ01, LZ02, LLZ08, LLS09, Li10, LL11, LX14, LLX15, L17, LYYXY18, LNZ19a, LNZ19b, LST20, LY20, LX22, LZ02, LM20, LSY21, LLJF21, LN03, LP04, LY98, L13b, LC05a, LC07, LZK17, LJL98, LXX08, LS09, LX16a, LXY17, LT18, LGW19, LH00, LD05, LFBB08, LN04, LPP09, LD03, LX16b, LL19, LW20b, LG20].

Method

[LCY+20, LCK21, LX16c, LS00, MR09, MN07, MN19, MR04, MRS04, MCT+05, MOSS17, MWBG12, MR07, MW03, MS06a, MP20b, MHR20, MR02, MYN20, MST15, MV013, MG12, MO10, MTM08, M121, MZ94, MRKS21, MB19, M009, MT16, MS18a, MvdM21, MS20, Mu07, MWW17, MZ19, MYZ21, MPS09, M003, MCV17, NN12, NN17, NAS13, NRMQ13, NT18, NS06, NM13, NMAB11, NVdP00, NHH99, NKM10, Ob13, OS15, OX17, OQRY18, OTV19, OR18, PRS12, PDMV08, PR09, PS10a, PKD13, PW12, PHJ11, PBWB14, PZBB15, PL12, PNP13, PTT20a, Pen00, P08a, PT01, PEdD12, Pla98, Pol16, PvdVvG17, PS10b, Por01, PD15, PO09, PBZTB+15, Pup99, PM15, QL06, QS05, QS08b, QSM19, RO18, RRR03, RRR05, RG13, RG03, Re13, RMC12, Ren15, RU01, RNV19, RW01].

Method [RZTK+15, RTB121, RV10, Ros06b, RX18, RJLW20, Rüd94, RO12, RO15b, RS00, RSA05, S010, S098, S989, Sar98, SA09, Sch08, Sch98, SR16, Sh09, Sch13, SL09a, SY18, SM94, SBM07, SG95, Sim07, SS10b, SDNC20, Smi97, SK05, SC02, SSF16, SD21, SMR01, S04B, Sr006, SL09b, SO09, SV01, TZ95, Tal20, TK13, TKW08, TLLK09, TY00, TCZC19, TT06, TP09, TBKF14, TLH21, TMA18, TB177, UYY+15, VP10, VP14, V03, VM13, VV05, Van20, VBTT99, VK15, VXY16, VSBB09, VGOR20, VXCB16, Vog16, WS95, WZ21a, WX99, WLE+00, W06, WWY09, WMC11, WWY11, WB12, WY12, WH CX13, WSZ14, WDG+18, WBTG18, WZC19, WMHK19, WWXY20, War13, Wei99, WWCH17, WP17T, Whi15, WKM+07, WY13, WGF08, WS15, WAP15, WSX17, WS18, WG19, WXS12, WQX20, XEG06]. Method [XA99, Xie05, XKWY08, XDH+17, XQX15, XCS16, Xu04, XU04, XW05, XS08, XXMN10, XZ200, Xue18, YCZ13, YDF07, YGB+05, YHQC12, Yan19, YZL20, Yan14, Yan18, YZ05, YD06, YHL99, YZ19, YCN21, Yiu95, YSK99, YYWY18, YK03, ZEG19, ZK14b, ZKZ15, ZMK17, ZLG98, ZN05, ZC12, ZJC12, ZRTK12, ZWH+14.
ZF14, ZJX14, ZTRK14, ZYSL15, ZDZ16, Zha18b, ZXY21, ZWP21, ZCP06, ZWZ+13, ZP18, ZJB20, ZP20, ZZY20, ZLTA15, ZHL21, ZK96, ZFHS15, dVM08, iW11, vNLB04, vWBV09, ABS06, ABCM97, AM95, ADRS95, BS94, Bøe93, Cai93, CW93, CPS94, DS96, EW96, FCR93, HG96, Hes97, HL97, Lam97, Li94, LCW95, Liu93, PCDB96, She94, She95, SS93c, ST96, Tan93, TV93, Yav93, ZMC94, CD13, JK21.

Methodologies [IHTR12, KB08].

Methodology [BC09a, CRS+18, DKW19, TCCK18].

Methods [AE08, ABBM98a, ARMNW10, AC08, ACVZ12, AVZ13, AG10, ABS05, AMN15, AL02, AC05, AMVR17, AV14, ABC+16, ABC+21, AGL10, AKA13b, AL19, APvDG12, ABF96, ADP20, AW20, AH20, ABC00, AABM13, AM17, AAB+15b, AIL05, AW15, ACN19, AGH13, AM20, AHW18, AKM+14a, AHT17, AKT16, AGPR19, AS05, AA02, AKM14b, AL97, AL99b, AH06, ALZ14, BS03, BS07, BKGV16, BQQ08, BMV18, BKM19, BR05a, BGLY05, BHN07, BN98a, BK16, BOB+19, BS05d, BYZ19, BBBS04, BN00, Bas98, BvG15, BBBG11, BN98b, BLB00, BzCS11, BGK15, BDK+20, BDO12, BBM11, BB15a, BB15b, BHT09, BS15a, BCC20, BS16b, BSS17, BBS19, BM17b, BFK05, BG05a, BG05b, BCM05, BCM11, BKS16b, BR18, BF14, BZ15, BvW09, BLR14, BBM+15, BQR18, BBT19, BS99b, BT13, BKM10, BKD12, BM05, BGVS15].

Methods [BMV11, BHM+21, BMM14, BK20, BS15, BD05, BW01, BHR96, BOPF06, BT16, BM13, Bru13, Bur14, BLO7, Buv21, CCF14, Cai95, CKS01, CLI1, CPW15, CGL+12, CHAMR06, CSS10, CPH14, CDG17, CGQ10, CZK15a, CPV95, Car07, CV07, CKD13, CRS+18, COS06, Cas97, Cas02, CZ10, tVCAU10, CFSZ08, CEHN08, CV12, CS96, CCSY98, CGZ99, CN99, CW17, CHW17a, CHW17b, CDC19, CC03, CFKM18, CGM+21, CGSR20, CHW20, CCL+20, Che98, CKY98, CD02, CHMR10, CMK11, CLL13, CBN02, CR21, CLK18, CKV99, CS14, CH08b, CK98, CS17, CG19, CBDW15, CHH10, CM99, CFM96, CCG14b, CGP19, CDW14a, CDW14b, CS10c, CK94, Cor98, CE16, CGF21, CC18, CSW14, DO11, Dar21, DP98, DMM004, DMM005, DGK98, DL17, DHJW08, DFDM19, DLTZ05, DLTZ06, DRFP07, DFN12, DB94, DP10, DPS18].

Methods [BMV11, BHM+21, BMM14, BMV13, BMM15, GMN02, GZ16, GV19, GV20, GASS98, GGL09, GK11a, Gas13, GSS12, GHK14, GK03, GH07, GL08, GV12, GSV20a, GG19b, GLQ16, Gy05, GP18, GZW18, GM94, GGM07, GKS98, Gra14, G05, Gri94, Gri95, GM15, GSW13, GC97, GNZC17, GZT+19, GX20, GJ21, GSM20, GW04b, GM04, GVMM14, GP96, HK02, HR05, HN19, Hak00, HMM17, HKF+13, HHE10, HW13, Han95, HH02, HMM+13, HW14b].

Methods [HRD21, HNS08, HW21, HKKR19, HKLW19, HHH19, HL20, HKLW21, HJ98, HJ18c, HSF07, HT00, HLM06, HLM+09, HMR09, HL98, HV96, HEGH14, HLP08, HJS18, HS01a, HS18, HK95, HJL+19, HCW20, HW21, HKM97, HW09, HFL11, HGZ21, HJ19, Huc08, HiH18, HLM03, IM07, IM99, IT14, ISS19, JK11, JSPC97, Jay98, JVG12, JSCB20, JCDs21, JW05, JCL07, JLP18, JGZ06, JR96, JR98, JP11, JZ00, Kau03b, KM15, KL15, KBK+08, KR20, Kc08, KZK17, Kim05, KL06, Kim08, KZP20, KR21, KS20, Kla98a, KR06, KR12a, KLR14,
Methods
[LYZ20, LSY21, LRS02, LMT18, LL08, LSZ17, Log03a, Log03b, LNS15, LR20b, LSPRV21, LCR20, Lui00, LMMW04, LK98, Luo19, MMRN15, MM13, MV00, Man99, MS17, Mar03, MMT15, MS04, MLLX16, LZ17b, LSC18, LLW19].

Methods
[SG11, SRS12, ST17b, Ser06, SCTP04, Sha21b, She99, SY10b, SY12, SWX16, SW16, SBX+08, SW17, SM18, SV00, SS03, ST00, SO15, Son12, SH14, SSS98, Sta07, SM07, Ste01, Ste00, SS93b, Ste02, Str94, SSVV17, SH20, TT96a, TS11, TX17, TWY20, TK13, Tau06, TSK09, Tie18, TVA02, TL12, Ton94, TW17, TS14, TPW90, TLE12, TP99, TV98b, UA07, VC00, VV05, Vas07, Vii14, VV94, VO96, VPP05, WS99, Wa18, WSS00, WC03, WPL+13, WLE+00, WL08, WWY09, Wan12, WSA16, WRSZ18, WHL18, WP19, WCL+21, WJW21, WG00, WMSG09, Wen10, WMBT19, WK03, Wu21, WZ22b, WX21, XSC21, XZB11, XH05, XT06, Yan94, YTL11, YYS16, YBLH16, YZ07, YZ08, YWL17, Yu01, YCS16, YB09, ZBFN17, ZKN21, Zam16, ZK14a, ZCZK14, Zbi11, ZTBB18, Zha97, ZV05]. Methods
[ZCL+11, ZZW214, ZSB16, Zha20, ZWH21, ZMS10, ZK15, ZW94, ZF09, ZWG21, ZS02, Zin00, ZS04, vHBTC12, vdVY00, AP93, Att94, BR95, BHP94, Ca94, CSS93b, CW97, Dax93, DG95, Elt96, FS96, GPHHAPR18, HH93, HLS93, Lie93, LSM93, MMPR93, MP94, Pem93, PM95, Rûn93, ST94, She97, Wei94, Zha94, vd97].

Metric
[BPR16, BRR18].

Metrics
[GKRB16, Knu01, UA04].

MGRIT
[DKPS17, Wal14].

Micro
[AP93, Atk94, Bia94, BR95, BHP94, Cai94, CSS93b, CW97, Elt96, FS96, GPHR18, HH93, HLS93, Lie93, LSM93, MMPR93, MP94, Pem93, PM95, Zha94, vd97].

Min
[GG94, GG95].

Mines
[XK08].

Minimal
[ABPW21, BBSV10, CGS02, DS14, Lee13a, LRS02, LN04, LD03, NM13, OK13, OWO14, RN95, SV01, Ton94, WMI09, ZP18, Bia94, CGS+94, Fre93].

Minimax
[FT18, GM94, HW21, LZ01, LZ02, SW10b, YZ05, ZFHS15, NT20].

Minimization
[AKA19, AAB+15a, AO17, BLV18, BLP14, BCL99, BL08b, CC08, CXY10, DK10, DGP10, Doh03, DF03, FNNB05, GO09, GRMS09, GS98b, GNZC17, HAS20, KKK16, LMR15, LN17, LST07, MF06, NN05, OC05, OST11, SK021, Vao10, WBFA09, YG15.
YSX17, YMW07, YLHX15, ZBK18, Zha20].

Minimizing
[ACO98, ACCO00, CW12, Don06, Hag02, HKR16, HL20, KKR21, WCS00, Wei94].

Minimum
[AW11, Asht95, BLMS21, BBR08, EG18, HSK91, Kas95, MV00, Ng00, PS02, PHJ11, WZ21a, Wan13, Wu21, dMHJM00, DG95, SS93a]. Minimum-Mode [PHJ11]. Minimum-Radius [BLMS21]. MINRES [CPS11, Dul98, GH02, HS17, KL12]. MINRES-QLP [CPS11]. Miscible [AD18b, CL97, GY17, LY98, WLE +00]. Missing [ZW16]. Mitigating [WTP21].

Mixed
[AE08, Ani07, AdWGCV+20, AHT17, AGPR19, BMV18, BRT07, BMM98, BHL+20, BBH20, BG04, CPV95, CGP12, CZ10, CKY98, CKV99, CF05, CHL06, CGHT14, CDN16, CDR11, DHL21, DM14a, DHE13, DSZ13, DGH99, DZ08, EKLS+18, EMM+99, EF05, Fra98, G16a, GHMY18, GT98, GKC13, GM13, Gob08, GLL01, GB06b, GPA18, G12b, GSW13, GLW18, HKF+13, HLLM15, HSS08, HLR18, HHJ03, HQH+16, HiH18, IA14, J15, JLZ16a, JP14, KY19b, Kim05, Kim08, KLJ10, KPPS14, KS15b, KSW20, LD12, LTC13, LS17, LU17, LQR12, Lay96, LS13a, Lee14, LMW17, LPP19, LM15, LN05, LW20]. Model [LG10, LS05b, LM14b, LHR+18, LRT11, LW20a, MO00, MP20a, MSR16, MS18b, Mu97, MZ19, MEF09, N90, NS21, OS14, PP12a, PW15, PGW17, Peh20a, PNP13, PM16, PS11b, PN19, Q14, RKL18, Re18, RDP08, RLM+00, SMZ18, Sai20, SSD12, SB10, SSM20, SSJB19, SMA18, SBMR18, Tad20, T14, Toi08, TGS08, VBA18, VP14, WFG+20, WiOH08, WG20, WH13, XBC96, XJS12, XJS13, XL20, YY18, Yan19, YGS+21, ZBFN17, ZFLB15, ZHY21, ZW221, ZZ21, ZYLW16, Zim14, ten95, CHK13]. Model-Based [Fra98].

Model-Free [YGS+21]. Modeling
[AS07, ACCP13, BPR04, BCT05, BKK18, BBH+16, BCG+10, BGL06b, CHL06, CGDD11, DKDH20, GaP08, GV15, GRL10, GM11, HKA+21, HHJ18b, HK03, HLY13, HLM16, JK10, KL06, Kup00, LVWW03, Lay06, LCR+16, LOL13, L14, Lem16, Lin06, LM14c, MH17, MJSR05, NWW11, NW97, OPR06, PSK13, PQR20, RG13, Ren15, RG09, RK07, San10, SDN10, SPKB13, SOTB12, SCM10, TPT+16, Wal18, WKM+07, XMRI18, vHCDD15, LP06].

Modelling [GMvdV18]. Models
[AT20, AA00, AKA13b, AF11, ABCP08, BST08, BHN10, BC13, BCJ+21, BBR04,
BGSV15, BJ08, BMV13, BJW18b, CV07, tVÇAU10, CCC17, CNP12, CS18a, CAG+19, DSB99, DJP00, DBA19, EHL06, EMSW12, EAA21, FKQ17, FS05, FY14, GR04, GZYW18, GZW18, GZW20, GV16, G19, HAG17, HRP20, HPS06, HDS08, HI03, HI05, JILGZ20, JSCB20, KGM+11, K10, KL02, Le 05, LRP07, LP08, L06, LZ16, LL20, LSPR09, L14, MMRN15, MEHL16, MW08b, NGX14, NCT99, NMFP16, OKdSG17, OAA20, OPRB06, PGW17, Peh20b, QZT11, QSM19, RWKW14, RWWK15, RS13, RW97, RLC08, SBK18, SRS12, SHP07, SC03, SY14, SBX+08, STY21, WM05, WKM+07, YY21, ZZY20, WTS94. Moderate [NN14]. Modern [DARG13, EMM+99, KHW+14, MRV06]. Modes [Fli13, JvGVS13]. Modifiable [IS17]. Modification [MOKS12, Pet01, ST14a, ZH21]. Modifications [BEOR17]. Modified [ACVZ12, APS12, BS15a, BFK03, BIA05, BK20, CGL+13, Dax03, EIL01, GL03, GM20, H18c, HLW00, HS17, LV10, LRT11, LK08, MR02, MM95, MM98, NRS18, S193, SH01, W12, ZY17, Zyg11, Anj93, FG95, LCW95, OS95]. Modular [LS16a]. Modularity [ZLWZ18]. Modular [CDM+13]. Modulating [ALLK15]. Moduli [HRV11]. Modulus [CCG14a]. Modulus-Squared [CCG14a]. Molecular [APvDG12, BZ10, BCR11, BTO08, GKM+17, GLT09, JILGZ20, LR10, LCL18, NKTY08, OKF14, QTZ11, QDKW18, R14, SZS97, SK09, YP01]. Molecule [Nak08]. Molecules [Kra08, MS04, VS17]. MOLNs [DTT+16]. Moment [BN98b, BLM03, CL10, DHF17, FDFW07, GLT18, G19, KW10b, LZG02, LZ04, PKR+13, San10, TKCC13, ZBK18]. Moment-Based [BN98b, PKR+13]. Moment-Equation [LZ04]. Moment-Matching [GLT18]. Moment-Parity [BLM03]. Moments [BSMM16, GMV99]. Momentum [LW12a]. Monge [BW09, DF10, DL19, Fr012, NN19, PTvR+14, PBtTB+15]. Monitor [CHR99, HS17]. Mono [Lee10a]. Mono-Energetic [Lee10a]. Monochromatic [KR14]. Monodomain [CS18a, DKKP14]. Monolithic [ABC+16, ABC+21, HPK19, MKWG15, Wie17]. Monomial [WB08b]. Monotone [FO19, PL03, SYY09, TCD21, W03, B03]. Monotonically [AW11, BH14a, BS04, BM10a, BM10b, FK97]. Monotonicity-Preserving [BH14a]. Monte [BCCSS21, WZGO21, YWL21, ABLS05, ACD+11, BHvST14, BDK+20, BK04, BCS14, CL18a, CKXZ18, CKBT16, CML+18b, CFG21, DPS18, DGR+17, EHL06, EBSS+11, FVV21, GSW20, GLSTV16, GP18, GKR01, HW14b, HLLL00, HS18, IT09a, IK10, IT14, JKLZ18, KKS08, KBK+08, LXZ20, LMRS21, LZ04, LW20b, LW19b, MS04, MS12, NT18, Ökt05, PR01, PG16, PMR16, RNV17, RNV19, TPW09, Wan12, WWH17, WKKP13, WG19, WP20, ZWH21]. Monument [Sem10]. Morrison [BCMM03]. Mortality [Kim05]. Mortar [BBMR03, BCdfF+20, GY11, GJP+14, KV20a, KL06, PEdD12, PGW12, Ste01, TW13b, WW03]. Mortar-Based [KV20a]. Most [KM05]. Motion [BN98a, CS04, CFSZ08, GM13, HT16, KKK18, MO00, MO10, Nt99, Sch05, SU15, TR93]. Motions [MK96]. Motor [GLL+15]. Motzkin [DHN17]. Mountain [Ben13, Ben15, Ben17, MY21, Tum10, TBC+11, Vas05, Yav19, vdV01, vdVDE+02, vdVDE+03, Vas07]. MOVCOL4 [RWW07]. Movement [BLH02, FS05, KWW13, NMW11]. Moving [BHR96, BW09, CHR02, Car10, CM98a, CM98b, CP13, CIZ18, DBC13, DLT05, DLTS06, DL20b, DRSB17, GLQ16, Gra14, GN07, H07, Hei13, HR99c, Kup00,
LPR98, LCJ+20, MMRN15, MN07

Moving-Water [LCJ+20], MPEC [BLP14], MR [BEM94], MREIT [SKJ+13], MRRR [DPV05, PQOB14], MRRR-Based [PQOB14], MSAV [CS18b], MSP [WZ03].

Mstabl [NG18]. Multi [ADK+18, BL03a, CB98, DDMQ18, DSRMK17, HK95, HGK97, LNP+07, Log03a, Log03b, MSS12, OPRB06, RNV17, RTR+16, Saa96, SW09, WK06].

Multi- [HGK97, RTR+16]. Multi-Adaptive [Log03a, Log03b]. Multi-Dimensional [DSRMK17]. Multi-dimensions [MSS12]. Multi-Element [WK06].


Multiblock [LDM00, MC10]. Multibody [AKPRB08, Lee09a, Lee09b, Sch05, WK03, YP98].

Multichannel [YZY09]. Multiclass [DKM14a]. Multicode [CHV+18]. Multicolor [WH95].


Multigrid [Haz08b, HRD21, HHR03, HW01, Hen05a, Hen05b, HS+20, HTW+12, HV95, HDF+19, HTB+05, HLZ19, HGRW16, Huc08, HMM+21, JBV96, Jia14, JL05a, KR18, KKV13, KAn03a, KR14, KK09, KK02b, KY03, Kna98, KR99, KM16, Kra08, Kra09, KW18, KRG09, Kwa99, LO11, Lee09, Lee10a, Lee12, LN05, LB12, LB06, Liv15, LPR02, PSFL20, RO15a, Str95, TW09, WL01, Win10, WS18, XCLQ20, BZ96, Ena97, ZMC94, ALZ14].

Multidimensions [GC17b, HC20b, Sur00]. Multidomain [AKBM21, CLL13, PM95, WPGR13, LSZ17]. Multielement [HSK19]. Multieliminination [SZ99]. Multixtremal [CGS02]. Multifrequency [BYZ19, JL19, JL20].

Multigrid [Haz08b, HRD21, HHR03, HW01, Hen05a, Hen05b, HS+20, HTW+12, HV95, HDF+19, HTB+05, HLZ19, HGRW16, Huc08, HMM+21, JBV96, Jia14, JL05a, KR18, KKV13, KAn03a, KR14, KK09, KK02b, KY03, Kna98, KR99, KM16, Kra08, Kra09, KW18, KRG09, Kwa99, LO11, Lee09, Lee10a, Lee12, LN05, LB12, LB06, Liv15, LPR02, PSFL20, RO15a, Str95, TW09, WL01, Win10, WS18, XCLQ20, BZ96, Ena97, ZMC94, ALZ14].

Multidimensions [GC17b, HC20b, Sur00]. Multidomain [AKBM21, CLL13, PM95, WPGR13, LSZ17]. Multielement [HSK19]. Multieliminination [SZ99]. Multixtremal [CGS02]. Multifrequency [BYZ19, JL19, JL20].

Multigrid [Haz08b, HRD21, HHR03, HW01, Hen05a, Hen05b, HS+20, HTW+12, HV95, HDF+19, HTB+05, HLZ19, HGRW16, Huc08, HMM+21, JBV96, Jia14, JL05a, KR18, KKV13, KAn03a, KR14, KK09, KK02b, KY03, Kna98, KR99, KM16, Kra08, Kra09, KW18, KRG09, Kwa99, LO11, Lee09, Lee10a, Lee12, LN05, LB12, LB06, Liv15, LPR02, PSFL20, RO15a, Str95, TW09, WL01, Win10, WS18, XCLQ20, BZ96, Ena97, ZMC94, ALZ14]. Multidimensions [GC17b, HC20b, Sur00]. Multidomain [AKBM21, CLL13, PM95, WPGR13, LSZ17]. Multielement [HSK19]. Multieliminination [SZ99]. Multixtremal [CGS02]. Multifrequency [BYZ19, JL19, JL20].

Multigrid [Haz08b, HRD21, HHR03, HW01, Hen05a, Hen05b, HS+20, HTW+12, HV95, HDF+19, HTB+05, HLZ19, HGRW16, Huc08, HMM+21, JBV96, Jia14, JL05a, KR18, KKV13, KAn03a, KR14, KK09, KK02b, KY03, Kna98, KR99, KM16, Kra08, Kra09, KW18, KRG09, Kwa99, LO11, Lee09, Lee10a, Lee12, LN05, LB12, LB06, Liv15, LPR02, PSFL20, RO15a, Str95, TW09, WL01, Win10, WS18, XCLQ20, BZ96, Ena97, ZMC94, ALZ14]. Multidimensions [GC17b, HC20b, Sur00]. Multidomain [AKBM21, CLL13, PM95, WPGR13, LSZ17]. Multielement [HSK19]. Multieliminination [SZ99]. Multixtremal [CGS02]. Multifrequency [BYZ19, JL19, JL20].
Multigrid [WC03, WL04, WHCX13, WOW00, WO01, WY09, WW03, WMBT19, WK03, WE06, XQ94, YBH1Y5, Yav96, YVB98, Zas95, ZF09, bZOW07, dlRRG19, BGP94, BGL21, BDK20, BL04b, BHT09, BS05f, BGS09, BBB11, BMSV97, BV98, CGP93, CGZ99, CC08, CC10, CWZ07, CWX15, Cho05, ICCVEKV17, CDGT01, CGF21, CPB19, AGJT21, DMM+08, DMSW10, DGR+17, EY07, EN08, EN09, EK14, EK10, FVV21, FLU+20, GV20, GLS13, GXY15, GCR16, GC17a, Grill4, Gril5, GS02b, Gr05b, Gr10, HM05, HSB20, HJ98, HLM96, HOU+19, HS+20, HL10, HXX18, HJS18, HS01b, HL17, HWW21, JK11, JKLZ18, JR96, KXS18, KNN12, KK18, KKT13, KS04, KKN21, KKF11, KC16, KGW+20, KT08, Kra02, LLP98, LLZ08, LSC18, LYLC21, LX16b, LW19b, MG07, MG09, MG11, MV94, MK08, MS312, MTV16, NT18, OVY17, OKLS15, Par17, PS08, PS11a]. Multilevel [PC07, RN19, Rüd94, SZ99, Saa05, SM19, SCTR04, SBX+08, SW03, SRW+18, SLC01, TX17, TTY16, WLPU20, WC00, WIOH08, WP20, ZT17, Zha94, EG93, AM17, LB11]. Multilinear [SL10]. Multimarginal [KLLY20]. Multimedium [WLK06]. Multimodal [HW03]. Multimoment [BBT19]. Multinumerics [TW13b]. Multiparameter [BC99, YBM+18]. Multipass [MS98]. Multipatch [ABPW21]. Multiphase [BHN10, BEM17, BOKCW20, LVWW03, MBG16, RHK11, RJJL20, SU15, WZET13, Whi15]. Multiphysics [AHN+20, BS16a, LCR+16, SO17, WPG13]. Multiple [ARMNW10, AEEM17, AL19, AHDK14, ABB+16, BA05, BNP15, BGH19, BDvdG05, BER17, BWS20, BS96b, BD99a, CGL+13, CGR14, CN99, CS18b, CC97, CMM95, DFJS19, EPE05, GY11, GML+21, HR05, KKN18, KMR01, LL19, Lee10b, LPMR19, LZ01, L10, LX14, LXHD20, Liv15, LN04, MY20, MN11, MY18, NKG21, Nov15, PFS21, PLT+21, RSM18, Rei21, RH06, RNN16, RSS20, SG95, SRI+18, SO10, Str93, UA04, WS07, WHL18, W90, WWJ12, XYZ12, YD06, ZT17, ZH94, AM17, LB11]. Multiple-Coarsening [Lee10b]. Multiple-Grid [MY18]. Multiple-Network [LPMR19, PLT+21]. Multiplication [AKA13b, AA14, ABB+16, BSH16, BG12, DO15, DKS15, EBSS+11, GHS+15, GKN18, HJ18a, KH1+14, Mat95, MDM15, SLvdGK14, SvdGP16, Van20, VR14, WH90, WP20, YB09]. Multiplications [FHH+18, LS21, LXG+21, YL93]. Multiplicative [Cai94, CGG07, HLZ13, SCGT07, Vit93, YL14, dIRR19]. Multiplier [BLS14, IT09b, KL15, LC21, LNS15]. Multipliers [CG18, KMW99, KW00, WY12, YYWY18]. Multiplies [UA04]. Multiply
Multiply-Add [BHL⁺20, Goe97].
Multiply-Connected [RD21].
Multipoint [SBS98].
Multipole [BCR11, BT03b, BPT⁺14, Ber95a, CDGS05, CJ05b, CPD17, ED95, EG01, GR02, GSS00, GrM10, HA17, HEGH14, HR98b, KLZ⁺06, LCD14, MG07, MG09, MG11, MR07, NKLW94, OC03, OC05, PD15, RRR05, Sch94, WZC19, EB96].
Multipole-Accelerated [NKLW94].
Multipole-Based [GSS00].
Multiprecision [CVW06].
Multipreconditioned [BKL⁺17, Spi16].
Multiprocessors [Sun96, NP93a].
Multirevolution [LV20, Vil14].
Multiresolution [ATV07, ACD95, ADH99, BW00, BC02, BH97, BT01, DDGS16, DMD⁺12, GC17b, HBB⁺16, HC20b, JTZ08, KHKL16, LS00, WB00, Liat03].
Multitarget [Har08].
Multiterm [LZK17].
Multithreading [But13].
Multitissue [CC11].
Multivariable [Lin06].

N [Mau95, Ten98].
N-Body [Ten98].
N-Simplicial [Mau95].
Nano [GL10].
Nanophotonics [LSV17].
Nanotube [ZMqCS21].
Nanotubes [MCL19].
Nanotube [JP14].

Navigating [GCN21].
Near-Circulant [KOV15].
Near-Field [GrM10].
Near-Optimal [FD03, JWC21, MHS98, O’L01, RKW20, SW10b, TO15, Van95].
Non-Gaussian [AM04, GS14].
Non-Hermitian [CGL+13, KXXH21, KPT16, KMR01, VYX16, FGN93, Fre93].
Non-Isotopic [Y208].
Non-Isothermal [RLJW20]. Non-Lévy [LZ16]. Non-Newtonian [FGO20, GP96].
Non-Self-Adjoint [CPV95]. Non-Simply [NN18]. Non-Adaptive [SX16b].
Non-Adiabatic [BG11, BGH19]. Nonaligned [BD99b]. Non-asymptotic [BHvST14].
Nonautonomous [QCJX21]. Noncentered [DMBB10]. Noncentral [KB96]. Nonclassical [GI99].
Noncoercive [Bur13, Bur14]. Nonconformal [PL12]. Nonconforming [AWW19, BGPS21, BBD16, BH16, CDK19, CKY98, DFQ14, ISG15, KV20b, KV20a, Kau03a, KW16].
Nonconservative [CPPR12, DRFN07, MEF09, WFG+20]. Nonconstant [MRFV18].
Non-convergence [DHHR19]. Nonconvex [BZ21, GRMS09, HD15, KPP07, MV06, NWW07, QS08b, SWW08].
Non-degeneracy [Ush01]. Nondestructive [JLZ16a]. Nondifferential [CGS02].
Nonelliptic [Yav98]. Nonequilibrium [KM98, SYY99, WFG+20]. Nonequispaced [KV12a, PP03, DR93b].
Nonequivalence [HLM16]. Nonhomogeneous [DRFN07]. Nonhydrostatic [GRL10, GKC13, RG09, YC14].
Nonhypercube [WI12b]. Nonintrusive [FUNB18]. Noniterative [GV19, KB09].
Nonlinear [IM97, ISG15, JK07, Jre99, JR19, KB08, KA03, Kea97, KZ00, KLR14, KLR15, KLRU17, KM98, KLS08, KKT19, Kus97, LP13, LRM06, LV13, LU17, Lay96, LMW15a, LWZ17, LZZ20, LZ21b, LW14, LMT18, LSV13, LSZ11, LKK18, PK04, Liu00, LCY+20, LCK21, MIS03, Mar94, MO00, MP08, MG12, MT09, OW00, PL03, PW15, PW98, PPT11, Pla03, PBV18, RPK18, RLM+00, Sai20, Sch03, Sem10, Sph07, SY18, SB05, Sio02, Sma04, SVX15, TW05, TW21, TP21, Tra95, VMM13, VC00, WS95, WL08, WBTG18, WHL18, WSH14, WBB08, WK03, WvdZSvB18, Yuc18, YDF97, YYS16, YHC16, ZY07, ZY08, YD06, YHL19, YYYY11, ZKN21, ZTK18, ZZ04, ZZSh14, ZRK15, ZCQ21, dSG+15, dWRP20, AGC96, AO03, Car93, Sar97, TR03].
Nonlinear-Programming-Based [KB08]. Nonlinearities [JKM14]. Nonlinearity [BV20, CL11, GM00a]. Nonlinearly [CK02, DH16, HYC16, LK21]. Nonlocal [CCKP12, CGV18, DTY20, DZHZ18, DL+21, FK19, GML+21, KM97, KKS21, RAB+14, XJBS12, XJS13, ZMeCS21, ZZZ21, ZHDD21]. Nonlocally [LH19].
Nonmatching [ML13, RT01, W003]. Nonmonotone [BDKR21, Toi96].
Nonmonotonically [TN16]. Nonnegative [AN16, CIZ16, CL08, DHHR09, GW17, IL16, KP11, LD11, NSJ03, PNL+21, SX11, ZJX14].
Nonnegatively [BV03]. Nonnegativity [BH20]. Nonnested [Cai95]. Nonnormal [vD03]. Nonnormality [vBdB05]. Nonorthogonal [DGK98]. Nonoscillatory [BT06, CFR05, CV07, DB07, GR02, HKYY16, JT98, LN03, LT00, Q505a, Q508b, ZLS12, ZZ18, CCJ21]. Nonoverlapping [Den97b, LPP19, MRS04, PL12, RL10, RG06]. Nonparametric [EMT09, ES00, HHM08, Hei13, LYLC17, Rei13]. Nonpolygonal [And08]. Nonpolynomial [BB10]. Nonreflecting [LS02]. Nonsmooth [BBSW16, BCK21, CZZK16, CKXZ18, HTMM15, IJT11, JLZ16b, KP12a, Kra09, MV06, HJ18c, LMM18, vLA21]. Nonsymmetric [BDD+97, BN05, BGL08, BBM11, BT98, BSvD99, BHT00, BMM+10, BCMM03, Bur13, Bur14, CJK11, CKD13, CS96, CKY98, ES17, EPV94, HWD02, HZ10, Ips01, Jou94, Kas95, KSV15, Krz01, LM20, LZ99a, LSS03, MS07b, MRS18, MS19, MMRS19, MN11, PV95, Ruh98, ST08, SIS96, SG95, SvG08, Sta94, TT07, Ton94, Zha97, dDBV14, dSL05, CGS+94, DS93, ES96, ST94]. Nonturbulent [CBS00]. NonUniform [SR16, Ain14, BBBBB13, BG08, BMAK19, BB15c, CPC20, CRKRS07, FCM12, GMSB16, NL99, RAT18, Zen16]. Nonvariational [LP11]. Nonzero [CXY10]. Nordsieck [Kul12]. Norm [BM18, BPS14b, BLPP14, BM00, BBR08, GL08, GSS98, KA95, MS19, Men11, Pic10, Yan18]. Norm- [GSS98b]. Normal [KM05, MO10, ST16b, VL10, WR13, YPN+01]. Normalized [BD04, BL08a, LC21, TW13a, WJW21]. Norms [AC098, ACC000, FNNB05, GMO14, GG94, GG95, HS17, H0f04, KR00, RNRR17, Ste00]. Note [ADGP07, CW16b, GKI11b, GG95, Ips01, KW10b, LKK18, MGW00, QQSvdG01, SC03, WB99, Jin95, Tre93]. Notion [BYK05]. Novel [CGDD11, DFS17, EKSS16, EO05, FO08, GLR+16, GKK10, HY10, HL17, KSW20, Lee10a, LJ17, MFJ19, MTM08, QZZ19, TMA18, Xu94, YTL11, Yan21, ZLTA15, ZH21]. NR [CLQ12, CLW13]. Null [BN00, HHLW15]. Nullspace [Le09, RG13]. NUMA [GKC13]. Number [AMHR13, Bja19, CKQ14, DLV17, FMM19, FH21, Fer98, GH15a, HR14, KR17, KL15, LSW02, LX16b, MPV21, NH12, NBA+14, Pel18, SSD12, SV08b, SV11, Ste11]. Numbers [EL01, HL17, KV05]. Numerical [ABBM98b, AB17, APZ13, ACY+20, ADKM03, ABH03, ApvDG12, AE18, Am98, AIL05, AP97, AT19, A017, Arz12, ACCP13, BH00b, BL03a, BMJM3, BS05d, BMTZ13, BCC+10, BW20, BN00, BPP07, BKG15, BK08, BBKS20, Ber98a, BM05, BK04, BCSS14, B09, BCM15a, BN21, BK00b, BV09, BHT11, BBC07, BPT19, Boz09, Bre17, BBM+08, BTT13, B08, BL07, BGM17, CG18, CGGP19, COZ96, CLMM00a, CKS01, CL10, CLPS03, CZ015a, Car07, CM09, CRS+18, CP05, CG12, Car93, CEOR18, CH08a, Cha07, CGK13, CGV18, CDF18a, CLAT10, CRS20, ICCVEKV17, CW06, CK98, CH09b, CG96, CFH19, CBS17, CK94, CHL16a, CHL16b, DO11, Dur21, DP98, DK11, DMM005, DNP+04, DP00, DL17, DLM16, DQQ13, Dom06, DV98, DMM19, DG99, DU11, DHZZ18, DCL+21, DP16, Dur16, EL03, EP06]. Numerical [EF05, FGM13, FGM14a, Fa03, FTY15, FMM98, FL04, FY14, FR15, FMS17, FRM06, Fr012, GS16, GK00, GHHK15, GHTW00, GGK+04a, GMV99, GT06, GV16, GKD05, GGM07, GSM02, GKT09, Gre03, GV07b, GX20, HRT10, HT13b, HM98, HBB+16, HKM20, HL08, HRS19, HR99b, HC98, HHL07, HCW20, HHL15, HLM03, In99, Jan98, JK12, JMS16, JSCB20, JW05, JW13, JK21, JZ00, KB08, KP12a,
KW07, KKN18, KKF11, Kla99, KLN20, KS15a, KH18, Kon21, Köös07, KS15b, Kup98, KGT07, KM05, LQ19, LL98, LL02, LZ17a, LG97, LMPQ03, LR20a, LL00, Li03, LB15, LO03, LLL08, LS09, LC05b, LP06, LSPRV21, LLS19, MR09, Man05, Mar94, MSW05, MP20b, McI95, Men94, Mic01, MT97b, MT06, Mis01, MZ94, MRKS21, MS07e, MDC98, MHS98, Nas09, NWW97].

Numerical [NNH99, Obe13, PBP14, PS18, PL03, Pem93, PTT20b, Pic10, PABG11, Por01, Pup03, QNNZ19, QRV21, RPK18, RR98, RW06, SSW18, SRCG93, SBS98, LLL08, LS09, LC05b, LP06, LSPRV21, LLS19, MR09, Man05, Mar94, MSW05, MP20b, McI95, Men94, Mic01, MT97b, MT06, Mis01, MZ94, MRKS21, MS07e, MDC98, MHS98, Nas09, NWW97].

Numerically [LRP07, LP08].

Numerics [ACF09].

Nutshell [HL98].

Nyström [ARS21, CSS93b, Cas05, CCC18, PT99].

O [AGL10, HKA+21].

Objective [KHRrBW14, ten95].

Objectives [San10].

Objects [JL20, ZB12].

Oblique [EO16a].

Oblivious [LFLS08, SLFL06, YB09, ZGG17].

Observation [ZGA10].

Observations [CYDK21, EN16, Har11, MT19a, NMFP16].

Observed [JKLZ18, LKB18].

observer [BDP96].

Obstacle [BC12, MRW15, MZ94, NS06, RW20, WW10].

Obstacles [LS09, AE95].

Obtain [CAB04].

Obtained [BK11].

occasion [PS97].

Occupation [KTSB19].

Ocean [ADM10, HZXC16, KH14, NK13].

Oceanography [XBC96].

Octahedron [AB08b].

Octree [HHM07, SB10, WM11, HH11].

Octree-Like [WM11].

Octrees [BWG11, IBWG15, SSB08].

ODE [Ber00a, Bja95, CPR11, FHFR19, GS97, HJ07, Lie93, LC96, ØB05, SR97, SBN11, vd97].

ODE-IVP [vd97].

ODES [Bar05, CV94, AP97, BN13, EM96, JEL03, JS93, LKZ17, Log03a, Log03b, SB98, Ver94, WE13, ZS14].

ODES/DAES [Bar05].

Odyssey [AB03].

Off [LYZ20, SE13].

Offline [SW09].

Often [WS05].

Oil [BMM98].

On-Line [OS15].

On-the-Fly [TY11].

One [AKK18, AP01, AHR12, BT06, BFK05, COZ96, CM98a, CGS02, CV18, CC12a, FK21, GL21, GBCT10, GC19a, GT06, GK90, Haz08a, Haz08b, HC95, KS17, LS95, LZZ18, Liv08, MR07, PMR16, Red99, SWX16, SV11, Sta07, SMR01, SJ14, Vi09, VS03, WLL15, Wen08, Xu04, YHQ12, SS93a, DSZ13, Hes97].

One- [BT06].

One-Dimensional [AH12, COZ96, CGS02, CV18, GC19a, GT06, KS17, LS95, Liv08, PMR16, SWX16, SJ14, Vi09, VS03, Xu04, YHQ12, LZZ18, SMR01, Hes97, DSZ13].

One-Shot [CC12a, Haz08b, Haz08a].

One-Stage [AKK18].

One-Time-Step [GT09].

Online [AF11, LPSB17, PW15, Peh20a, SBK18, SW10a].

onto [Ama98].

Open [HG96, LJL09, VS03].

OpenCL [DARG13].

Operation [CF07].

Operations [ASZ07, BTK19, BB09, JK12, KV13, MM08].

Operator [AN17, BB14, BPS14b, BS16b, BZ21, BS06a, CCC17, CS18a, Che13, CDB13, CO15, DG16, DO12, DMD12, FRS19, FKK14, GHH17, GS18, GLQ16, GLQ18, HHL15, Liv08, MPRW08, Peh20b, PC98, Rah00, RZ03, RW10, Rub12, WL18, XZ10, YYW18, ZB12, vGEV07].

Operator-Based [RWS10].

Operator-Coarsening [FRS19].

Operator-Splitting [GLQ16, GLQ18].

Operators
Optical

Optically

Optimal

Optimality

Optimally

Optimization

Optimization-Based

Optimization-Constrained

Optimizations

Optimizing

Option
IT09b, KL11, LFBO08, Mar03, OGO13, OGO16, RO12, Toi08, ZK14c, dFL05.

**ORBIT** [WRS08]. **Orbital** [DF21]. **Orbits** [CD06, DDF00, GM00b, LMR97, LCH99].

**Order** [ACVZ12, AVZ13, Abg09, ADR14, AT20, AMMR10, AMM+10, AMM+11, ABM+13, AV14, ABMR11, ABdSF15, Ain07, AAD11, Ain14, AJ21, ABF96, ALLK15, ACC20, ABST13, AK17, AHT12, ALMR17, AABM13, AWW19, ADGM98, ABIGG16, AF11, AT19, ADK+18, AM20, AP12, AS06, AK04, AIV98, BBSW16, BBMZ20, BS05a, BCR11, BM11, BT06, BOB+19, BBHJ21, BS05c, BR19, BGN07, BM11, BBHJ21, BS05b, BG15, BG21, BBKT15, BM08, BPR99, BT97, BBD16, BIFS16, BZ15, BLR14, BV16, Bre17, BTT13, BLM03, BSU19, BS18b, BGL06b, BCDE21, BLLL07, CI19, CLMM00a, CLMM00b, CL10, CC21, Cao07, CCKP21, Cas05, CDK19, CS18a, CW18, CG18, CMM00, CW15, CK15, CDF18b, CLAT10, CD15b, CY17, CCA20, CEP20, CMO10, CFJT18, CM99, CG07, CK94, DW97a, DW98, DM14a, DGLL21, DG09].

**Order** [DFN12, DKK+19, DAE02, Doh21, DMR919, DGP18, DS16, DWQY19, DL20b, DMD+12, DK98, DMM14b, EO15, EO16a, Elj19, EHLW20, EL01, FMM99, For06, FL19, FK21, Fu21, GV19, GH07, GM17, GW15, GBCT10, GMvdV18, GG19a, Gia18, GM14a, GG19b, GMS21, GZYW18, GZW18, GW20, GB06b, GPA18, GLT09, GM15b, GNP18, GldP18, GM19b, GM11, GX16b, GLW18, GX20, GM04, GN07, HHT03, HO18, HW13, HSMT20, HL09, HXZC16, HJ18b, HRT13, Hen05a, Hen06, HO94, HO96b, HH11, HS01a, HMM+21, ISC15, ILK05, JBP09, JK15, JK11, JLGZ20, JLZ17, KM11, KP09a, KO05, KT05, KL05, KLI13, KZK17, KS20, KR11, KPS19b, KCI17, KW16, KP05, KS14, Kup98, KL00a, KP17, KL11, Kye12, LO11, LP11, LZ20, LE10, LU17, LMMR00, LR20a, LM15, LMM17].

**Order** [L00, LPR02, LG09, LLLX16, LD16, LZZ18, LZ20, LN03, LM14b, LM14c, LSN11, LY14, LTW18, LGW19, LLZW19, LMR21].

**LCR20, LX16c, MGG19, MNS07, MSL13, MC10, MRS14, MRS16, MN18, MAA98, MS18b, MA20, MLY17, MCV17, NHH33, NN14, NS06, Not00b, OKdS17, ODN17, Ols07, OR18, ÖB05, PFW18, PL03, PT99, PCFN16, Paz20, PDA09, PSC18, PQ20, PP12b, PMS12, PJ96, PN19, QS18, QS08b, RRR05, Rav02, RL10, RLKN07, RMC12, RM08a, Ros05a, RXW07, STCK21, San10, SDNL10, SBK18, SRS19, ST03, Say15, SPKB13, SKWK18, SHP07, Sha21a, SC02, SC98, Str99, SJD14, Tad20, TT20, TVA02, TM14, TPB17, VC00, VVM12, VB07, VS19, VGOR20, Vi14, Vi15, WMC12, WGT14, WP19, WD10, WJW21, WK99, Wen08, Wen10, WMBT19, WM05, Win06, WS20, Wu21, WZZ19, WX21].

**Order** [XH15, XMR18, XQX15, XH05, YY18, Y019, YSS07, YCS16, ZBFN17, ZZK15, ZLT15, ZS03, ZJC12, ZLS12, ZF14, ZFLB15, ZYS15, ZSB16, Zha18b, ZHQ20, ZWP21, ZFZ14, ZHS10, ZTA15, Zim14, ZPE12, ZBdAF20, dV08, dVXX19, AdWR17, Ahu96, ABL20a, CSS93b, CY05, HKYY16, HO96a, LSM03, Pen93, She94, She95, ZMC94, Zha18a, ZzSpH14].

**Order** [MSL13]. **Order-Optimal** [MNS07].

**Order-Preserving** [AWW19]. **Ordering** [BT99, ÇAK11, DF21, GBDD10, HR98a, MKSG10, MM95]. **Orderings** [BSV99].

**Ordinary** [Bre17, CP04, EM99, HV04, HJLZ18, IM99, KW15, KR12b, LLS13, MC15, RNR16, SB05, TSK09]. **Ordinate** [HHE10]. **Ordinates** [AKM14b, SH20].

**Orientation** [HH16]. **Oriented** [CPB13, CCH15, DMRR19, Gri95, LW12b, LW14, PDTVM08, RL13, SCW+17, Wic17, vdZvBd10a, vdZvBd10b, RG94].

**Ornstein** [BPB07]. **Orthogonal**
[AK04, Bar00, BF95, BF06, BL99, BL03b, BDMFSL04, CGGP19, Car10, CEHN08, CW16a, CP03b, CSZZ20, CBS00, CG10, CLN12, CRT11, FHH+18, GL18, HM14, HLR18, IW14, JED10, KH00, KPT12b, Mit08, MNZ15, PNL+21, PDG20, PDA09, Rav02, RSSM18, Sun95, Sun96, SLCO1, WGB97, WLI+15, Zie12, von97, ALT93, Bia94, Rag95]. Orthogonality [CJY16, GLxY19, HN20, HJL+19]. Orthogonalization [Sta97, Ste08]. Orthonormal [WO09]. Orthotropic [LOL13]. Oscillating [KSB11, WTWB09, Tsy97]. Oscillation [LP96]. Oscillations [LV20, LR07, LP08, Pet05]. Oscillators [LK04]. Oscillatory [AKT16, CSS09, GASSS98, HW14a, PHW19, SKB13, Vil19, YP98]. Oseen [AOR18, BO06, HSS08, Le09, OV07, Wab05]. Osher [CCS+19, LPP19]. Osmotic [WFAP15]. Ostwald [GM20]. Other [Bal00, BCF01, O'L01, SM17, ZW03]. Out-of-Core [ADL+12, RS99, AGL10]. Outer [GGGL10, YG99, GPZ17, OKdSG17, Saa93, AA14]. Outer-Product [AA14]. Outlier [VR16]. Output [AA14, CHMR10, MP08, NS21, Yan18, ZFLB15]. Outputs [CAG+19, PDHO9, PN19]. Over- [MSC14]. Overcoming [EO15, EO16a]. Overdetermined [DN13, ST96]. Overlap [AKA13a, Bre00, DW94, GMN02, GZ16]. Overlapped [SX11, WH95]. Overlapping [AD20, ABPW21, BJNN02, CPW15, CGM+21, CH94, DMBB10, FFSS13, GR05a, HK16, HKKR19, HHK19, Hen05b, Hen06, JP95, LJ19, LS05a, MLL13, PZPR07, Pet99a, Pet99b, ST00, Wu99, Cai93, Goe97, Pet93]. Overresolving [BS17].

p [ST98, BOF16, HK95]. P-Version [HK95]. Parallel [ABM+13, AKK14, AAB+16, ADLR15, AA098, ACD18, ABI00, BMP14, BMNV20, BMNV21, BDD+97, BDHS10, BDS98, BH00a, BL04a, BO07, BMA19, BS98, Bar00, BPT+14, BPSV15, BSV19, BY13, BDvdG05, BFG+16, BG05a, BG05b, BMF12, BK17, BBD18, BVCG+10, BTB05, BGMR01, BBR08, BG12, BRK16, BWG11, BHK20, CGK+98, CR16, COS06, CV15, CGG+14, CC12a, CC64, Cho00, CP15a, CMO10, CH12, CG93, CP95, CKNL08, CML+18a, CML+18b, CDFQ11, CFM98, DDF+21b, DHGL12, DKPK14, DBA19, DGR+17, DG99, DGvdZ18, Ema10, EKSS16, Ett16, FKK19, FFF+14, FNL+19, Fie98, Fin19, FW97, FJP99, FR19,GV07a, GA13, GN16, GHRR99, GKV00, GKM+17, GB15, GM21, GAMV13, GG05, GM19a, GKB16, GKS98, GKK10, Gri95, GLK08, GDL07, PageRank [FLM+05, GGGL10, GKh11b, LM05a, WWJ12]. Pair [Le05]. Pairs [EH18, PT99, SS93a]. Pairwise [LT21]. Palindromic [LWK+16]. Panel [RRR03, Rot96]. Panels [RRR05]. Panich [KL13a]. Pantograph [HXB11]. Parabolic [AB08a, AW20, AAI98, And16, AH09, BBC+21a, BEEM18, BC09a, BV20, BCF12, BF06, BV09, BV16, BWZ10, BW90, CH09a, CDG17, CGR14, CCG14b, DKO12, DGvdZ18, FMOS17, FH06, GN16, GPHHAPR18, GA19a, Gra14, GSo0, HLNS19, HV95, HV95, JWCC21, K1K1, Kye12, LZ21a, LSTY21, LV13, LL16, LSC18, LY20, JSZ11, LPP09, LW19b, MNS07, MSW05, MPRW98, MS10, Moo00, NS19, PS11a, Pe03, PMSB12, QX08, RHL+21, SV08a, Slo02, VV05, WG12, WvdZSvB18, Yu01, ZS02, ZFHS15, Bec93, Cal94]. Parabolic-Elliptic [PS11a]. Parabolic-Parabolic [PS11a]. Parachute [KP06a]. Paradigm [BH00a, BL04a, DKK+19]. PARAFAC [GG13]. PARAFAC [SMYS21, KU18]. Paragon [Rot96]. Parallel [ABM+13, AKK14, AAB+16, ADLR15, AA098, ACD18, ABI00, BMP14, BMNV20, BMNV21, BDD+97, BDHS10, BDS98, BH00a, BL04a, BO07, BMA19, BS98, Bar00, BPT+14, BPSV15, BSV19, BY13, BDvdG05, BFG+16, BG05a, BG05b, BMF12, BK17, BBD18, BVCG+10, BTB05, BGMR01, BBR08, BG12, BRK16, BWG11, BHK20, CGK+98, CR16, COS06, CV15, CGG+14, CC12a, CC64, Cho00, CP15a, CMO10, CH12, CG93, CP95, CKNL08, CML+18a, CML+18b, CDFQ11, CFM98, DDF+21b, DHGL12, DKPK14, DBA19, DGR+17, DG99, DGvdZ18, Ema10, EKSS16, Ett16, FKK19, FFF+14, FNL+19, Fie98, Fin19, FW97, FJP99, FR19, GV07a, GA13, GN16, GHRR99, GKV00, GKM+17, GB15, GM21, GAMV13, GG05, GM19a, GKB16, GKS98, GKK10, Gri95, GLK08, GDL07,
GR05b, GH97, HKR02, HHLZ21, HKA+21, HO15, HW14a, HK099, HRT03]. **Parallel** [HIT19, HKR16, HJ98, HW94, HL95, HJS99, HK00, HS06c, HWD02, Hen06, HSF07, HP94, Hig95, HLNS19, HKR21, HH16, HVW95, HKT01, HDF+19, HWY20, HGRW16, IBM01, INS05, JFC10, JHJ12, JCL07, JP97, KH18, KAU18, KR06, KLRU17, KV12b, KWG+20, KRD18, KHKL16, KZ16, KM19, KR521, KW10a, LCB07, LMR98, LHN96, LZ99b, LSN17, LYL+11, LC05a, LC08, LXsH16, LTzT21, LT14, LKvBW10, LD11, Luu15, MKSG10, MMM+94, MYXB16, Mat95, MSM14, MSB+15, MZW09, MvdM21, MFP18, NS19, NvdP00, Oet99, OW98, OKD16, OKF14, PS1a, Pek12, Pe93, PYXY16, Pip13, PP13, PELY13, PDMY14, PBC05, PC07, QQsvdG01, RT10, RWA95, RT99, RGG15, RD12, SB11, SvdGP16, SM17, SR16, SWT00, ST00, SC98, SO97, Sun96, SS08, Ten08, TD99, TAH15, UA04, UA07]. **Parallel** [HIT19, HKR16, HJ98, HW94, HL95, HJS99, HK00, HS06c, HWD02, Hen06, HSF07, HP94, Hig95, HLNS19, HKR21, HH16, HVW95, HKT01, HDF+19, HWY20, HGRW16, IBM01, INS05, JFC10, JHJ12, JCL07, JP97, KH18, KAU18, KR06, KLRU17, KV12b, KWG+20, KRD18, KHKL16, KZ16, KM19, KR521, KW10a, LCB07, LMR98, LHN96, LZ99b, LSN17, LYL+11, LC05a, LC08, LXsH16, LTzT21, LT14, LKvBW10, LD11, Luu15, MKSG10, MMM+94, MYXB16, Mat95, MSM14, MSB+15, MZW09, MvdM21, MFP18, NS19, NvdP00, Oet99, OW98, OKD16, OKF14, PS1a, Pek12, Pe93, PYXY16, Pip13, PP13, PELY13, PDMY14, PBC05, PC07, QQsvdG01, RT10, RWA95, RT99, RGG15, RD12, SB11, SvdGP16, SM17, SR16, SWT00, ST00, SC98, SO97, Sun96, SS08, Ten08, TD99, TAH15, UA04, UA07]. **Parallel** [HIT19, HKR16, HJ98, HW94, HL95, HJS99, HK00, HS06c, HWD02, Hen06, HSF07, HP94, Hig95, HLNS19, HKR21, HH16, HVW95, HKT01, HDF+19, HWY20, HGRW16, IBM01, INS05, JFC10, JHJ12, JCL07, JP97, KH18, KAU18, KR06, KLRU17, KV12b, KWG+20, KRD18, KHKL16, KZ16, KM19, KR521, KW10a, LCB07, LMR98, LHN96, LZ99b, LSN17, LYL+11, LC05a, LC08, LXsH16, LTzT21, LT14, LKvBW10, LD11, Luu15, MKSG10, MMM+94, MYXB16, Mat95, MSM14, MSB+15, MZW09, MvdM21, MFP18, NS19, NvdP00, Oet99, OW98, OKD16, OKF14, PS1a, Pek12, Pe93, PYXY16, Pip13, PP13, PELY13, PDMY14, PBC05, PC07, QQsvdG01, RT10, RWA95, RT99, RGG15, RD12, SB11, SvdGP16, SM17, SR16, SWT00, ST00, SC98, SO97, Sun96, SS08, Ten08, TD99, TAH15, UA04, UA07]. **Parallel** [WZ03, WHCX13, WIOH08, WC17, WU18, WL20, WZ21b, XB16, XA99, Xie05, XXZ20, YCZ13, Yan19, YSZ14, ZSD+10, ZK96, AS93, AM95, BDP96, DS93, EG93, Gött94, JP93, Lau93, MH95, OA93, PS93, RG94, Sm93, TW93, Wat94, AA14]. **Parallel-In-Space-Time** [DGvdZ18]. **Parallel-In-Time** [HDF+19, KM19, WL20, GM19a, HW14a, KR521, WZ21b]. **Parameter** [ABB+16, BDO12, CBHB19, Min02, PQO14, RNR16, YS16]. **Parameterizable** [GLyY19, HLT97, NT18]. **Parallelization** [HvdG96]. **Parameter** [AHDK14, BGL06a, BP97a, BCJ+21, BF17, BU15, BM00, CHL20, CMK11, CBS00, CBG+19, CJK10, Fu21, FR19, GJ05, GN19, GG18, GJM94, GKG07, GCB04, GM00a, GK13, HR96, HCR13, HC21, Isa20, IJLT11, JKLZ18, KZ00, KPS19a, KP21, LS16a, LM17, LM17, LWG10, MS13, MDG+18, PLT+21, Reg96, RW13, RTH17, SPKB13, SB05, TP18, TUV10, WE13, WE01, Yen18, YR12, ZN16, ZTM+16, Liu93]. **Parameter-Choice** [CMK11]. **Parameter-Dependent** [BBB17, CBS00, GN19, KPS19a, TUV10, ZN16]. **Parameter-Free** [Isa20]. **Parameter-Robust** [CMK11]. **Parameterization** [LMR97]. **Parameterized** [BBBG11, CGI11, CW12, EF15, GLTO9, JY21]. **Parameters** [CCPS20, DD12, EHN12, GK12, HS09, Jac03, JG02, LM14b, O01, PDC99, VR16, YGS+21, DG95]. **Parametric** [AH17, ABdSF15, AF11, ACW12, BGO08, BPS14b, BS16b, BTWG08, DG20, DK021b, GU17, GLMN15, GY90, HM07, HRP20, KS11, LQR12, LS13a, TZ14, TB02, ZJB20, dSGK+15]. **Parametrization** [SM15]. **Parametrized** [AH20, BKG16, BU19, CS1221, DDMQ18, DL14, Ded10, DHO12, EPR10, GV12, IA14, JX13, NR013, SZA19, SBMR18, ZFLB15, Zim14]. **PARAOP** [GKS20]. **Parareal** [AKT16, DM13a, GV07a, GJSZ13, GKRNS19, GJS19, GKS20, HW19Z, LLS13, MGB18, M010, P19W, WZ15, Wu18]. **Paraxial** [CJ95, QL06]. **Pareto** [vdBF08]. **ParILUT** [ACD18]. **Parity** [BLM03]. **Part** [BBM98a, ABM98b, ABC00, ABL20a, BG15, BG05a, BG05b, BTGMS13, Bu13, Bur14, CML+18a, CML+18b, CHL16a, CHL16b, DSZ13, EO15, EO16a, GM17, GO92a, GG08a, GO2a, GS02a, KGGS10, LRP07, LP08, Lee10a, LNZ09a, LNZ19b, PMS14, Red99, RO00a, R0008b, Sta07, S07, Y07, Z08, dSL05]. **Partial** [ACZ15, AW15, BCS07, BJNN02, BHH08, BE1a, BHW99, BOPG06, CG18, CB98, CCG14a, CCG14b, CR13, DL19, EPR10, EF15, FBF15, FMRR13, FWA+11, FGH+08, GLT18, GPZ17, HHS+16, HJ98, HOW4, HO96b, HW195, HW95, HRS19, HIL07, HG00, HV04, JBH20, KKN21, KLR15, LL17, LU17, Lee09, LM15a, LE17, LCD18, LCM18].
LPR98, LJ17, LZ20, LLSX21, LZ13a, ILN21, LCJ+20, LCH99, MR09, MGG19, MGB18, MB00, MPW18, MTBT17, Pul08, RPK18, Rim18, RXW07, Sch98, WH13, XS16, XC13, You94, YR12, ZHL21, bZOW07, AGC96, EL93, FGM95, Gre93, HHRV93, Wri93].

Partially [AHT17, BK04, JKLZ18, JBL18, SX11, DLG97].

Particle [AdWR17, AE18, BKK18, BP13a, BBM08, CP13, CYDK21, CLK18, DEM+20, FDS13, GH15b, Gon15, GCR16, GA17a, GS00, GS02a, GS02b, HHLZ21, JLXX21, KKP14, KCZ15, KRW20, KO17, KR21, Kus00, LHL12, LZG20, LKBJ18, MW03, MCV17, PW12, PKS21, PCL+16, PMR16, PP13, SRS12, Sch09, Sha21b, Sha03, SC02, Str00b, TKCC13, TK13, WMC11, YCN21, McG95].

Particle-in-Cell [HHLZ21, KCZ15, MCV17, PKS21, WMC11].

Particle-Mesh [CLK18].

Particle-Partition [GS00, GS02a, GS02b].

Particles [Ste11].

Particular [Bet08].

Partition [AD18a, AD19, CD15a, DFW21, FFSS13, GS00, GS02a, GS02b, KO17, KWG+20, LSH17, LCL18, Mir21, Sch09, Sch13, YSZ14].

Partition-Based [KWG+20].

Partitioned [HP94, Jay98, RM08b, SBHS19, Zhi11, CS97].

Partitioning [AKA19, AKA13b, AA14, BH17, tVCAU10, ÇAK11, CCS97, CQZ17, DS00, EGLS21, GKM+17, GC16a, GMT98, GS05, HL95, HK00, HOU+19, KHX21, KK98, KPÇA12, RP01, SDN10, SMR16, Ten98, TMA18, UA04, UA07, VSS14, WC00, WZSL12, XA99, YB09].

Partitioning-Based [ÇAK11].

Partitions [AGR+20a, BBO09, Che05, OWO14, SRI+18, ZSD+10].

Parts [AWW19, BZ15, DZ15, HZ11, HDZ16, NIN18, NL16, OD1N].

Pass [Bja19, CCF14].

Pass-Efficient [Bja19].

Passage [AM05, Lan94, HT16].

Passing [BS98].

Past [NH12].

Patch [BRK16, LSY19, LY20].

Patchy [CCFP12].

Path [CDK21, FK00a, HS99a, HW14b, HLZ19, KB08, Kaw15, FR09, RP01, TVV20, Wai99].

Path-Constrained [KB08, RP01].

Pathologies [WTP21].

Pattern [BCFJ19, HKT10, JF11, KV13].

Patterns [Cho00, LCBD07].

PCBDCC [Zam16].

PCG [NSJ03].

PDAE [MB02, NP08].

PDE [AB08a, AOR18, ALZ14, BPS13b, BG05a, BG05b, BG20, BDS02, BSS21, CDF18a, CPR11, EN16, FHFR19, FR19, GW20, GM21, GGOY02, GV07b, GHS14, HL10, KM18, KHRvBW13, KHRvBW14, KRT21, LSPR21, MRL+17, NMF16, PWF18, PST15, PMSB12, PBC05, PC07, QGVW17, Rak21, RHL+21, RDW10, RDB16, RTH17, SK19, Sni97, SB15, YHC16, YZ05, Yav93].

PDE-Based [BG20].

PDE-Constrained [BSS21, GW20, GHKS14, KHRvBW14, KRT21, SB15, PST15, AOR18, BPS13b, BG05a, BG05b, BDS20, EN16, GV07b, PWF18, PBC05, PC07, QGVW17, RDW10, YHC16].

PDE/Linear [KM18].

PDES [LM00, ABBT+20, AAI98, ABE+17, ADS21, BBK21, BBC+21a, Bjo95, BV16, BWZ10, BWZ21, Cas02, CLLW20, CL18c, CFH19, CGF21, DO11, DDMQ18, DMMO04, DRW20, EL20, EV13, FMR06, GV19, GU17, GM14a, GLSTV16, GM19a, GS00, GS21, GMPZ06, HG98, HW15, HW14a, HCRT13, HO96a, Hol99, ISS19, JTTZ08, JWC21, JGZ06, KK18, KT05, KS11, KRG019, LSH17, LZ01, LK21, LNS15, Lui00, LW19b, MS17, MNS07, MnVST13, Mir21, MNN18, MNZ21, MX17, PHW19, RkvdDA14, SRM+15, Sem10, TWY20, TV98b, VV05, WGW12, ZGK20].

PDF [BK04, CVK13].

PDF/Monte [BK04].

Peaceman [CHKM13, CLST03].

Peak [San10].

Peano [WM11].

Pedestrian [Cha07, GM13].

Peer [KW10a, KW15].

Penalization [EKSS16].

Penalization [BLP14, BB08b, CMS17, EFOS20a, EFOS20b, GvdV17, Hes98, HR99b, KV20b, Kha98b, KG98].
Kla98c, PEC+14, WWY11, WMHK19, YJ13, CGP93, HG96, Res97, LCW95.

**Penalty-Based** [YJ13]. **Pencils** [FSvdV98b, MW01, Ruh98]. **Peng** [FKQS17, KSW20, QS14]. **Pentadiagonal** [GM21]. **Percentile** [BBC16]. **Perfect** [ABL+20b, HMRR19, YWG21]. **Perfectly** [ABL+20b, HMRR19, YWG21]. **Performance** [BS07, BB17, BDJ05, CPV95, Cas02, CMV97, CDPC13, DMPV08, DHHR09, EKM94, FFMT96, GH15b, GRS+15, GG10, Gup17, HLD12, HJ18a, IHT12, IFSJ21, JMS16, KW18, LNA+11, Mat18, PBB13, PEDE+17, PF94, RZTK+15, Rot96, SLvdGK14, SRS12, SH14, SC98, TGS08, Van20, WRS17, YW01]. **Performance-Based** [JMNS16]. **Perimeter** [DDE+20]. **Periodic** [AP14, Bad21, Bit99, BR18, BN21, BBT11, Coa12, CD06, ELHR00, GJSZ13, GM00b, HJMS07, HSSZ09, KL12, Kon21, KRS21, LZ17a, LR98, MBGV16, MS20, PMSB12, SSH06, TP09, WJMT15, XYGO01, XL20, ZHA18b, BR95, PE93]. **Perturbation** [EH18, Kon21, LY98, TT96a, VXXB16, Yav98, Gar96]. **Perturbations** [BBC07, ES18a, SHP07]. **Perturbed** [ADGP07, BKMRRB21, DLT20, EMT09, GaP08, HKM20, KH18, Kon21, LZ17a, LLS13, LH19, MM13, Meu01, OW98, ST00, WO98, XYGO12, ZLG98, ZHA18b, FC93]. **PET** [RKW20]. **Petascale** [BBH16]. **Petrov** [BDGK18, Bae93, BSU19, CC19, KZK17, LZK17, PTT20a, ST08, SS10b, Yan14]. **PETSc** [HKA+21, KAL007, LMK16, Zam16]. **Petviashvili** [KR11]. **PFASST** [MSB15]. **PFET** [Pip13]. **Pharmacodynamics** [AWA18]. **Pharmacokinetics** [AHDK14]. **Phase** [AHR12, AHT17, AGP19, BCT05, BHI11, BWB19, BBKW19, BFSN08, CS94, CCL20, CCC17, CLDS19, CCER12, CL97, CLNZ16, CCR721, CS18b, DCD13, CG96, DZ08, FTY15, FL08, GHMY18, GHMK15, GZYW18, GZW18, GX16b, HW00, JSCB20, JW08, KSSM18, KS15b, LD12, LR12, LL20, LW20a, LXS+08, LCK21, MK96, MC17, PT99, PP12a, PV15, QS14, SY10a, SY14, SO09, TYZ19, TK13, WC03, WMC11, WMC12, WC17, WGF08, YYS16, YY18, Yan21, ZHY21, LV94]. **Phase-Field** [CC17, CS18b, FTY15, LW20a, PV15, SY10a, SY14, TYZ19, WC17, Yan21]. **Phase-Flow** [JW08]. **Phase-Lag-Order** [PT99]. **Phase-Space** [CCRT21, MC17, WMC12, WMC11]. **Phased** [JL19]. **Phaseless** [JL19]. **PhaseLift** [HGZ17]. **Phenomena** [CM09, EW00, GLT18, OPRB06, PQ10, RSM18, Str99, WG00]. **Phenomenon** [AS21, Ban08b, Pir16]. **Phillips** [FM99]. **Photochemical** [VSBH99]. **Photonic** [Fli13, HLM16]. **Physical** [FCF19, GR04, MS04, ORP06, S04, dBMZ11]. **Physically** [DTY20]. **Physics** [BB17, BS04, CYKD21, GGK+04a, HL10, HKD13, LPY+21, NK13, PLK19, TP21, WTP21, WFG+20, YZK20, YZL20, YTT21, ZGK20]. **Physics-Based** [NK13]. **Physics-Informed** [CYKD21, LPY+21, PLK19, WTP21, YZK20, YZL20, ZGK20]. **PIC** [TKCC13, HHLZ21]. **Picard** [LM17, LR98, PSMB12]. **Picard-Based** [PMSB12]. **PICIN** [KCZ15]. **Piecewise** [AHH06, AC95, BC08, BC99b, CCS+19, DZSN09, DG17a, HCRT13, He11, KD20, LNS96, LCL18, Mar94, Ser06, SL09b, SW10b, Wi09, vdDA12, Atk94, Bia94]. **PIEF** [HHLZ21]. **PIEF-PIC** [HHLZ21]. **Pine** [WP98]. **Pinhole** [IJ08]. **Pinwheel** [GVP06]. **Pipe** [Egg18]. **Pipeline** [BCT05]. **Pipelined** [CRS18, SS16]. **Pipelining** [KO19]. **Piston** [DL20b]. **Pitaevskii** [DK10, DP17, PQR20]. **Pitching** [GSW17].
Pitfalls [AR99, BP97a]. Pivoted [KO99].

Pivoting
[ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pivots [May08]. Pixels [HLMR96]. Plane [GLL+14]. Planar
[Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93]. Pivoting [ADGP07, DG17b, DHL20, GDL07, GCD18, MOHvdG17, QOS98, EL93, Wri93]. Pixels [HLMR96]. Planar [GLL+14]. Planar [Bar14, Bea20, EL01, EL03, GGM01, JLY08, MOHvdG17, QOS98, EL93, Wri93].
Preconditioner

[ARS21, AVBTG17, BJNN02, BDGK18, BddSM11, BBM11, BGM13, BMT96, BT98, BT03c, BCF19, Ber00a, BGS09, BLM03, CS99, CDS05, CGB12, CC02, CWX15, CG17, CPD17, CST+13, DML05, AGJT21, DF15, DKXS18, Doh03, EOV05, FMW19, FG020, FCF19, GM15a, GrM10, HC05, HK18, HM19b, JFG10, JKKM01, KR14, KN21, KLW02, KL05, Kla98c, LS05a, LY13, ILN21, LY16, MT96, MW13, NV05, NSK10, OW98, PEC+14, PELY13, PV15, QSV06, RHL+21, RT01, RG07, RW21, Reu99, RSG17, Sa96, SZ99, ST08, SRM+15, SV00, Sto21, TDTF03, UI10, VV13, Vir07, WGB97, ZNZ16, Ain96].

Preconditioners

[AGH+20, BN05, BC10, BPS+14a, BMF19, BT00a, BW11, BLY21, BS05f, BKMRB21, BBKW19, Br00, BT01, BHI20, BEM17, CDBH16, CDG03, CGL01, Cas97, Cho00, DDF21a, DMMQ18, DPW19, DP19, DW05a, EHS+05, EHS+07, EN16, EPV94, FP01, GL08, GS98b, GKS98, Gup17, HN06, HO94, HSTH18, HKD13, HGK07, HZ16, HL17, K099, Kla98b, KD20, KOV15, KRT21, Krz01, KV16, Lee09, LS13b, LNC05, LSS03, MW13, MNS07, MSS10, MW19, Mu95, NK13, NP10, OVO7, Ong97, PS08, PWZ10, PS11a, Paz20, PSC+16, PSC18, PS01, PC07, RWKW14, RWWK15, RS03, ST16a, ST14b, Sta97, SO97, Tau96, TAY+19, WGS17, dVPS+17, dSL05, CT94, CC96, CMV97, DLG97, EG93, HO96a, Huc93, Sch93].

Predict

[CC20, dBMZ11].

Predict-and-Recompute [CC20].

Predicting

[HKLW19].

Predict

[BGMW17, HKC+04, LT20, NMFP16, Oli01].

Predictive

[RVA17].

Predictor [RC06].

Predictor-Corrector [RC06].

Predictors

[HMR09, MKWG15, OS98].

Prefix [Mat95].

preprocessing [BZ93].

Prescribed

[BCT07].

Presence [ASZ07, BN98a, SW15].

Preservation

[BBG+19, CHAMR06, CW06, Jay98, KW10b, LLJF21, PH13, Sha21a].

Preserve [FRM06].

Preserving

[AIP19, ADR14, AT20, AH17, ABR17, AWW19, ALT93, BH14a, BG10, BSMM16, BM08, BV19, BLR14, CTB15, CGK13, CCSY98, CCRT21, CBG16, CRS20, CS20, Chr09, CLTX15, CS10c, CDN16, DO11, DEN21, DLV17, DPS18, DG20, DWQY19, DCL+21, EKLS+18, EL20, FM11, FCMI2, GW15, GPSY17, GNP18, GY17, HMLH18, HS21, HLM03, JX13, Jin99, JS10, JW13, JLP18, Ket08, KC16, KEL11, LTC13, LFH19, LZG20, LM08, LR99, Li01, LW16, LLLX16, LY20, ILT22, LX16a, LGW19, LCJ+20, Liu20, LXL11, MR17, MW01, MS07e, MR01, NBA+14, PL21, PSC18, QS18, SY18, SZW20,}

FFS13, Fu21, GNL14, GLOR16, GH97, GG10, HS06a, HSMT20, HLNS19, HAN19, HSCTP04, Ips01, INS05, JNZ17, JF11, JFG13, JFG15, JZ13, JWC21, Jou94, KV20b, KV20a, Kan03b, KPS19a, KR12a, KVMK01, KLT16, KT08, Kra12, KLL+16, KT17, Lan10, LMW17, LKK18, LCK21, MG07, MG09, Mal07, MV94, MPW18, MS93b, MMA98, MR94, MGW00, NV98, Not00b, Ols07, OKLS15, PKNS14, Pel18, PS11b, PP08b, PMH+16, PLT+21, PST15, PMSB12, PS12, PV04, PV95, QS08a, RT10, RW11, RW20].

Preconditioning

[Sa03, SWW08, SSW+08, SM18, SW03, SCGT07, Sta94, SFM20, SV01, TT07, VK13, VSS14, WZ03, WWM03, WH95, Xli21, YHC16, ZN16, ZB12, dDBV14, vdEH05, Di 95, ES96, FF94, NFC06].

Predict [CC20, dBMZ11].

Predict-and-Recompute [CC20].

Predicitng [HKLW19].

Predict [BGMW17, HKC+04, LT20, NMFP16, Oli01].

Predictive [RVA17].

Predictor [RC06].

Predictor-Corrector [RC06].

Predictors [HMR09, MKWG15, OS98].

Prefix [Mat95].

preprocessing [BZ93].

Prescribed

[BCT07].

Presence [ASZ07, BN98a, SW15].

Preservation

[BBG+19, CHAMR06, CW06, Jay98, KW10b, LLJF21, PH13, Sha21a].

Preserve [FRM06].

Preserving

[AIP19, ADR14, AT20, AH17, ABR17, AWW19, ALT93, BH14a, BG10, BSMM16, BM08, BV19, BLR14, CTB15, CGK13, CCSY98, CCRT21, CBG16, CRS20, CS20, Chr09, CLTX15, CS10c, CDN16, DO11, DEN21, DLV17, DPS18, DG20, DWQY19, DCL+21, EKLS+18, EL20, FM11, FCMI2, GW15, GPSY17, GNP18, GY17, HMLH18, HS21, HLM03, JX13, Jin99, JS10, JW13, JLP18, Ket08, KC16, KEL11, LTC13, LFH19, LZG20, LM08, LR99, Li01, LW16, LLLX16, LY20, ILT22, LX16a, LGW19, LCJ+20, Liu20, LXL11, MR17, MW01, MS07e, MR01, NBA+14, PL21, PSC18, QS18, SY18, SZW20,}
Sur00, SF99, TWZ21, WY19, WQX20, Wu21, WX21, XQX15, YJ13, YCY19, YCS16, ZKN20, ZKN21, ZHQ20, ZZWSZ21, ZZZ21, vdVXX19, BM17b, LS12a, Tor05.

Pressure [BCM15a, BKMRRB21, EZ11, GP99, KSMM18, KL10, LY98, Mu20, MY21, OV07, RJLW20, SMZ18, SCS04].

Pressure-Robust [MY21].

Pressure-Temperature [RJLW20, SMZ18].

Pressureless [BCM15a].

Prices [WWH17].

Pricing [FO08, GMP19, HW14b, HFL11, IT09a, IT09b, LCD18, LZ16, LFBO08, OGO13, OGO16, RW07, RO12, ZK14c].

Priest [Nie06].

Primal [ACCO00, BDGK18, CGM99, DFG15, DFM19, HS06d, HSW08, IMS96, KL10, KR06, KM16, LN17, LD03, Pha98, SSW21, WvvdZsVb18, Zam16, Zha20, dVPS’17, Kor93].

Primal-Dual [ACCO00, CGM99, DFG15, HS06d, HSW08, IMS96, KM16, LD03, SSW21, Zha20].

Primary [BLGL11].

Prime [JF16].

Primitive [ADM10, HZXC16, NH14].

PRIMME, SVDS [WRS17].

Problem [Bur14, BEH’19, BCDE21, BRR08, BCM15b, CR16, CGAD95, CK03, CGP12, CC08, CDY07b, CHM02, DS17, DEP11, DSZ13, DL20b, EVLW17, ES17, FB21, FGS14, GL21, GH13, GKV00, GS12, GP99, GB06b, GK11b, GO09, HRT10, HLD12, HHP21, HT13b, HN20, HJ18c, HvdG96, HvdV03, JMM10, JMR17, KK02b, KL06, KL10, KL13a, KL20, Kup98, KL00b, LO19, LM05a, LL98a, Le 09, LR12, LM20, LLX15, LLW19, LY20, LS05b, LTzT21, LPP09, MR04, MMT15, MRT00, MRW15, MV21, MV06, NH12, NW097, OR02, OV07, OQRY18, PRS12, PNV11, PMH’16, PBJ’96, QZZ19, QNNZ19, QRV21, QQQP99, Rad16].

Problem [RH09, RSA05, SS98, SHP07, SBHS19, SS10a, ST00, SKN19, SSF16, TY08, TET10, TX17, TCDS21, TVV11, Tim19, TD99, VP10, VV13, WG20, WJ12, XGO01, XY12, XK08, YVB98, YSZ14, ZYS15, ZW21, ZSPL21, dV10, vBd05, vWb09, CSS93a, CW93, CS93a, MMPP93, MCJN94, SRCG93, Tre97, YL93, Zha94].

Problems [ADR14, ABL05, AN17, AL02, AC05, AB08a, ABF99, AEFM17, Aa00, AFF’15, APSG14, APSG16, AS18, AVBTG17, AW20, AH20, AFS19, AV21, ABBT’20, ATV07, AGH3, AF15, AHDK14, AH04, AH06, AHH12, AD15, ADF’19, AP99, BS07, BKG16, BH14a, BCS07, BLV18, BGS98, Ban08a, Bl03a, BYZ19, BSL14, BH20, BBC’01, BL17, BGL’21, Bar14, BBGS13, BOF16, BGK15, BG13, BEEM18, BCC’15, BB15a, BBK20, BSvD99, BT03c, BDKR21, BP13a, BHNPR07, BLS14, BK06, BM10b, BV20, BYL13, BF95, BFK03, BF06, BCK21, BDF08, BB05, BKF19, BF14, BKMRRB21, BH08, BVW09, BLM14, BBM’15, BQR18, BS99b, BT13, Bon01, BvC+’10, BCL99, BM95b, BDK12, BL08b, BMM’10, BMMT14, BWZ10, BH07, BDR18, BP06, BHR96, BKS98, BCdf+’20, BTGHS12, BSS21, BT13].
Process [AO07, ACW12, BF01, BTGH12, IT09a, PSB+06, SZ00, SB13, KOB20].

Processed [BCCSS21]. Processes [AM05, BRBT12, CK17, CBG+19, DNP+04, DN97, EFHL09, LFBO08, PS13, RPK18, ZK14c, ZK15, Zim13]. Processing [BBFJ16, BCFJ19, BCR99, BCM05, Gee19, GMS02, HK00, Hen05a, KMSM14, LRT11, Nov15, RSM05, SP03, WHCX13, WBFA09, Zim20]. Processor [CFM98, OA93]. Processors [KHW+14, Heg95]. Procrustes [BL99, BL03b]. Product [ARM+19, Beu05, CWC08, CS96, DO15, DP19, DCP11, FT03, KSV16, MBM+16, ORO05, RG98, Ull10, WFG+20, Zha97, ZCK12, AA14].

Product-Convolution [ARM+19].

Product-Type [Zha97]. Production [Pup03]. Products [BL03b, BBR08, Che16, EMN17, FMYT16, KKS08, KP17, Won16, LMSSS97]. Profile [AKA19, DHHR09, Hag02]. Programming [AFK15, BV03, CCFP12, DARG13, GY05, GB08, GHN01, KKK16, KB08, KO05, KK13, KOSB16, NKT08, Pla98, ST03, CV93, Kor93, Sar97]. Programs [CFM98, FFHR13, FL08, LWYxY18].

Progressive [BEEM18]. Projected [EHN12, GRMS09, Hok17, HM20b, KFR21, KSD10, MT09, RWA17, SBND11].

Projection [ABC00, AAM13, BJ01, BBBG11, BB15b, BM95a, BCP15, BD05, CFGM11, CEHN08, CN99, CC19, CRT11, EAS11, EN08, FB19, GH13, GW13, HN19, HC18, HB97, JCD21, KMR01, KHE07, KTS17, LE17, MNvST13, SSW21, TZ14, TVV11, Xue18, YR12, ZBF017, ZFHS15, vLA21, ABS96, ABCM97, CW07, LL89b, Sun93]. Projection-Based [EN08, KHE07, ZBF17].

Projections [BCC+15, GG05, dMGF17, JKO8, KR21].


Propagation [AM19, Aru12, BLMR02, BCS11, CHW17b, CHX15, CG96, DLM16, DF20, DR13, EKL+18, GM17, GMvV18, GLQ16, GMM15, GW04b, GM04, HLY13, JK21, KMA+12, KPL13, LS95, LO13, LO14, Lem16, Min02, OD01, PKD13, PTT20b, PDE+17, SMR16, SKJ+13, TLT12, Tra95, Wic17, ZWP21, ZLJ96, Zin00].

propelled [GHK14]. Proper [AK04, CB00, CP17, GLMN15, HLR18, IW14, PDG20, Rav02, RSM18, TLM14, ALT93]. Properties [AM15, DMMO05, GG94, GG95, LL00, LB06, MS04, MR02, TG04, TLM21, WL11, WB99, dBMZ11]. Property [BBG+19, VS03, ZN05, ZH21]. Protein [XJS13]. Provably [RL17, Ten98, WS18].

Providing [Yam02]. Proximal [DTV13, MZWG16, Par17, UWY+15, WWYX20, WY13]. Pseudo [ASS16, BS96a, HS06b].

Pseudo-Differential [BS96a]. Pseudo-polar [ASS16]. Pseudo-Timestepping [HS06b].


QLP [CPS11, Ste99]. QM [WCL +21]. QM/MM [WCL +21]. QMC [DKGS15]. QMR [BS96b, FN94, KMR01, RG98]. QMR-Based [KMR01]. QR [DHHR09, FSvdV98b, FKN +20, GKK10, GE96, HWD02, Oli01, QOSFB98]. Quad [VO19, ZWZ19]. Quadratic [BCS07, Ber00b, CDY07b, Don10, Don06, FL08, GHN01, HN06, HD15, Hvdo03, HLM03, LWW20, LCo5b, LWK +16, MPS18, Mee01, NN05, PWGW12, PMSB12, PN19, CV93]. Quadratically [ES18b]. Quadratization [YY18]. Quadrature [AH18, AB02, Alp99, Ban10, BH04, BSS17, Bog14, DGB15a, EJ08, FMRR13, GCS19, GS18, GMvdV19, GST19, GV13, GC19a, GPS12, GPTV15, HT13a, HS05b, HHLL00, HW09, JZL17, JM18, KS18, KKN18, KK21, KS17, MC05, PS19b, Say15, SFL06, Str95, SSVW17, Swa02, WSV17, aKT18, BGP94]. Quadrature-Based [DGB15a]. Quadrature-Sparsification [GS18]. Quadratures [BWV15, BGR10, Car07, GN2C17, Wen08, Won16, YR98]. Quadrilateral [HH16, LE10, SY08, Wan01, WSK99, YY11, ZMS09, ZP18]. Quadrilaterals [DA00, HRV11]. Qualified [LCL18]. Qualitative [ACHN21]. Qualities [Hu05]. Quality [Ber98b, CPT05, CC06, CC11, EU09, HR98a, Joe95, KK98, Kmo01, LPSX21, LCo5a, LCo8, LJ95, Wal13]. Quality-Bayesian [LLSX21]. Qualocation [CP03a]. Quantsics [OT11]. Quantification [AS21, Bar12a, BF16, BDK +20, BZ12, BJW18b, FWA +11, FJHM19, GW04a, GS14, HSK19, KKP14, KH14, Kou09, LNP +07, LZ04, PDE +17, Rah13, SSDN12, SRW +18, TZ14, WB08b]. Quantifying [AM04]. Quantile [Wat98, YMM14]. Quantitative [ATWK19b, DTM05, HFL +16]. Quantities [ATWK19b, MNVS13]. Quantity [GV07b, LQX14]. Quantization [KLLY20, KY05]. Quantized [DK012, Rak21]. Quantum [ACD +11, BOR97, BKMM10, CL18a, CBDW15, DZSN09, DZ12, DF21, FGL09, GRPG01, GKM +17, HJMS07, Jah04, JP14, LR10, Lee13a, LW20b, ML11, RN14, SZ06, SO10, YHS07, vWBV09]. Quantum-based [GKM +17]. Quantic [UW94]. Quasi [ABLS05, BN00, BN21, BBT11, CPP +17, CK07, CFFG21, DJLZ96, EZ11, EL19, HW14b, HHLL00, HTW +12, HH11, HJL +19, IT09a, IK10, IT14, JSPC97, JK19, KH00, KSD10, LZ99b, Lin16, LMRSD, LD03, Man05, MM14, MS06a, MO21, MC94, MG21, Pol16, RNV17, RNV19, SL10, SM17, Sha21a, SX16b, SV01, Ton94, Wan12, WW17, YZ05, ZWH21, CGS +94, Fre93, BW93]. Quasi- [RNV19]. Quasi-algebraic [HTW +12]. Quasi-Conservative [EL19, Sha21a]. Quasi-definite [MO21]. Quasi-Geostrophic [BN21]. Quasi-Interpolation [JKY21]. Quasi-Lagrangian [DJLZ96, LZ99b]. Quasi-linear [Pol16, YZ05]. Quasi-MAP [CPP +17]. Quasi-Minimal [BD03, SV01, Ton94, CGS +94, Fre93]. Quasi-Monte [ABLS05, HW14b, HHLL00, IT09a, IK10, LMRSD, Wan12, ZWH21]. Quasi-Newton [HHJL +19, KSD10, SL10, SM17]. Quasi-Newtonian [MM14]. Quasi-Optimal [MGH21, SX16b, Lin16]. Quasi-Orthogonal [KH00]. Quasi-Periodic [BBT11]. Quasi-Random [MC94]. Quasi-Reversibility [CK07]. Quasi-Spherical [BN21]. Quasi-Static [HH11]. Quasi-Steady-State-Approximation [JSPC97]. Quasi-Symplectic [Man05].

R [MIS03]. Rachford [CLST03, FZB20]. Radar [CHKsL20, GH07]. Radial [Ama98, BN98b, CB00, DFS17, DFQ14, DFW21, FM12, FP07, FLM11, GD07, JK10, JK15, JP16, KL13b, LLHF13, LSH17, LW19a, LSW17, Mir21, Pir16, Pla15, TLH21, WD18+18, WRS08]. Radially [ADKM03, MT09]. Radiation [BW01, HG02, HHT03, Kan03a, KR14, PP05, SYY09, YCY19]. Radiative [BK98, BK99, GP18, HHE10, JLY08, PKR+13, RBH06, SKN19, SH20, TWZ21, YCS16, ZHQ20]. Radiography [HFL+16]. Radiotherapy [CDM+13]. Radius [BLMS21, Gug16, HOY03, JP11, RMD08, Ros15]. radix [Goe97]. Radon [ACD+08b, Man99, Rim18]. Random [AP19, ABE+17, AdSK19, BJ01, BF16, BMMR20, BVW09, BCV13, CJDG15, CLLW20, CGF21, DU19, DHP17, DW15a, EAA21, EPSU09, EJH00, GR19, GS14, HM20a, HR03, HR05, HTH+16, IK10, JK12, JLP18, JLXZ21, KKV13, KAW15, KKN21, KRG019, LSW02, Lan94, LZX20, LZ20, LL15, LK04, LW19b, MFSY19, MvST13, MC94, MZ19, MNZ15, NS12, OV17, PS12, RDB16, RNR16, SM94, SG04, SM15, TZ14, TG04, TCCK18, UE12, Ver69, WR13, WZ18, WU12b, XH05, XTO16, YCZ13, YR12, ZR15, ZS04, LL94, YGCP96]. Random-Batch [LXZ20]. Random-Sampling [BCV13]. Randomization [DLY17, Gu15, HAS20, MOHvdG17]. Randomize [BSHL14, WBS+17]. Randomize-Then-Optimize [BSHL14, WBS+17]. Randomized [AdSK19, BW18, BW21, Bja19, BTK19, BS18b, CLB21, CRT11, CWD13, DSS20, DG17b, GLR+16, GCG+19, GNZC17, HN19, HNR17, KXX21, L03b, LxH16, Lx+21, LR20b, Mar16, MV16, PDG20, RDB16, Sai20, SX17, SZP19, WBTG18, WSX17, XxH+17]. Randomly [EMT09, LZ04]. Range [BFJ+15, BKK18, BKK+21, LT21]. Range-Separated [Bk18, BKK+21]. Rank [AP19, ABE+17, AdSK19, BW18, BW21, Bja19, BKS16a, Bja19, BKS16b, Bö07, BDS20, BSS21, CA16, CD19, CGMR05, CL21, DM13b, DKSX18, DS17, DBA19, DL+21, EL18, Ein19, EL19, EHY21, ES19, FWA+11, FM16, GTK+17, GU17, GLN14, GN19, GOS12a, dMGF17, GCD18, GE96, HM19b, HZG17, KUS14, KMR19, KPU21, LE17, LS13b, LJ17, LWxY20, LT21, Mar16, MV16, MMR19, PW15, Pen00, PRM97, PCD17, QQOP09, RO15a, RO18, RAT18, SC17, SZ00, SB15, SV21, SNN19, TUC19, VD10, Wan97, WLL+15, vNLB04, KSV16, SSC+15]. Rank- [SSN19]. Rank-1 [CL21]. Rank-Deficient [PRM97, QQOP09, SC17, Wan97]. Rank-One [AP01, WLL+15]. Rank-Reduction [LE17]. Rank-Revealing [GE96, MV16]. Rank-Structured [Mar16]. Ranking [CPP+17, CLK+11, DMM+08]. Rankings [FLM+05]. Ranks [MC09]. Rao [DMM20]. Rapid [AD96, BCY21, DFQW07, KLZ+06, LSC01]. Rare [GL15, LLX15, WLWP20]. Rarefied [HC20a, Ste11, TPW09]. Ratcheting [BBM+08]. Rate [AdVC00, Gee19, GLC21, KBD21, NN12]. Rate-Based [AdVC00]. Rates [BF13, Kol99, Red09, Ros05a]. Ratio [Bar12b, FNL+19, Le 01]. Rational [AH18, AN17, AT15, Badi21, BG17a, BG17b, BM01b, BHK14, CMM95, DP07, DGB15b, DKL09, DLZ10, FNTB18, FS08, GSS12, G21, GVMM14, HO18, KXS18, KXX21, KBD21, N18, RH98, TWZ20, TT06].
VMM13, XS16, XS17, ZFwCW15, NT20].

Reduced-Order [AF11, BGL06b, GM11, LM14b, LM14c, Rav02, SBK18, SPKB13, SHP07, WM05, Zim14]. Reduced-Space [YYS16]. Reducing [AGL10, BSH16, BFG +16, CWC08, ÇAK11, DSRMK17, YL93, Lan93, SS93b]. Reduction [AKK18, AH17, AdSGC12, ABdSF15, ATWK19a, ATWK19b, ATWK20, ABST13, AK17, AP97, AN16, AGI16, ABTZ14, BS05a, BPR04, BB08a, BBBBB11, BB15b, BG21, Ber98a, BFN17, BK17, BK11, BS18b, BTWG08, BOKCW20, CTB15, CCJ07, CS10a, CBG16, CC19, CCA20, CGHT14, DKS17, DLZ10, DSZ13, EKLS +18, EO15, EO16a, FMS017, FSvdV98b, GSO17, GM21, GOS12a, GPA18, GH14, GT19, GSW13, HK099, HS08, HSN +20, HM020, HC21, HS01b, IT14, IA14, KA95, KT15, KSS20, LZMW20, LZG20, Lan19, LU17, LS13a, LE17, LWG10, LHR +18, LLRC17, MMRS19, MR516, MS18b, MZ19, NG18, OS14, PW15, Peh20a, PM16, PN19, Resu99, Sai20, SvG10a, Sma04, SMR18, Tad20, TLTN14, WWH17, ZBFN17, ZCPM20, ZZ04, ZFLB15, ZCC +16, ZS04, dSGK +15, CMV97, MS93a]. Reduction-Based [MMRS19]. Reductions [ML11]. Reference [LLZ09]. Refficientlib [BB17]. Refinement [ABKS16, AHK +17, AMM +11, ABH03, BB17, BBSW94, BMV11, BWG11, CH17, CH18, CHP20, CDW19, Cha18, CC06, CC09, CC12b, DLY17, Dax03, DDG16, EPV94, FR10, FCC10, FHL13, GT98, GW20, GR05b, HHH08, HO15, JTT08, JP97, LC05a, LJ95, Man95, OB21, Ong94, PP05, SBK18, SR18, SL09a, SSB08, TB99a, Tra95, WC00, WP19, WCHZ14, WI12a, ZJC12, ZAD +16, ZWP21, Zie12, TV93]. Reflection [JLY08, Man95, PDC99]. Reflector [PTvR +14]. Reformulation [BHST08, Du16, KV20b, You94]. Refractive [TBKF14]. Regime [BS18a, EHY21, FCZE14, HH11, HFL11, JW13]. Regimes [BJM03, Lee10a]. Region [BLMS21, CC12b, GTK +17, KHRvBW13, KHRvBW14, NNH99, Plaq08, QGVW17, RS02, SKJ +13, Wu21, YMW07, YSK19, ZS18, dSK11, Sar97]. Region-Dependent [SKJ +13]. Regions [AW21, AL99a, And08, AHT17, AIV98, DP98, GM98, LCN14, NAS13, WRS08, ZSB16]. Registration [BMR13, HM05, HHM07, HHM08, HW03, HD08, KRDL18, MR17, MB17, MGDB19, Tad20]. Regression [ABE +17, BGM09, DDF +21b, GLSTV16, HNHR17, Hei13, KRI8, NMFP16, SX16b, Str93, TTY16, YMM14, You94, LL98b]. Regular [FO19, JLY08, NL99, Zha18a, Gu93]. Regularity [BH07]. Regularization [AL97, AL99b, BKK +21, BC02, BZ21, BDR18, BMR13, CDBH16, CR04, CT03, CLN26, CEO11, CKO15, CP15b, CG19, CKJ10, DDE +20, FGHO97, FM99, GG19b, GI18, HR96, Han95, HW01, HA08, Hwa07, IJT11, IJL16, JG02, KASL21, KHE10, KO17, LFB13, Lee21, LM17, LLO8, LLZW19, LVL21, Man99, NNT13, O’L01, PRM97, Reg96, RPA17, RS02, Sco17, SWU16, SJD14, TY08, DG95, FRC93, HO93]. Regularization-Sensitive [Hwa07]. Regularized [APS14, BR19, BCC +15, BMV13, CL10, CJY16, CMO0b, Cor01, DAB19, ES18b, GCS19, HJLZ18, KO99, KL00b, Lan10, MKS21, NP14, Sch19, SR00a, TDK18, Tim19, WMUZ13, XKWy08, ZCC +16, dSK11, dSO21]. Regularizing [DSC05]. Regulator [MPS18]. Reinforcement [GHK14]. Reinitialization [GB98]. Reissner [CG07]. Related [BGN08, BtVG +10, DG98, FK00b, FT03, HHSW11, KK09, Son12]. Relation
[Gas13, Le05]. **Relations** [GPS12].

**Relative** [DP09]. **Relatively** [BDvdG05].

**Relativistic** [DW97b, NH14, WT16, WS20, Wu21, McG95]. **Relativity** [GCD21].

**Relaxation** [AK09, ADP20, ADM10, BCT05, BM08, BR09, BLR14, BF10, BCK+18, CPH14, CNP12, CCM08, CCR12, EHN12, FMB13, GS98a, GR05a, GJS19, GR17, HPS06, HV96, In99, IMS96, JY96, JP95, KY19a, KLLY20, KO19, LCJ+20, LW97, Mar09, MB19, Mu99, RL17, RSD+20, RWA95, Rel20, SB98, SV00, T95, Ver96, WH13, WX17, ZLWZ18, ZKV99, Dax93, Lei93, Pem93]. **Relaxed** [CEHN08, FCF19, GGL07, LvL21, MMN00, PR01, TPW09]. **Relaxing** [CKQ14].

**Relevance** [BZ12]. **Reliability** [MS06b, SE13]. **Reliable** [CF00, CVW06, GS02a, SE11]. **RELU** [AS21]. **Remap** [BCV13]. **Remapping** [GTK+17, LL08, MCV17, WMC11, WMC12]. **Remapping-Based** [LL08]. **Remaps** [CRR18]. **Remark** [Goe94]. **Remarks** [BAFF00, GLL21, XQ94].

**Remeshed** [TK13]. **Remeshing** [DFS17, KR21]. **Removal** [CC08, MO00, AGC96]. **Removing** [PC07]. **Reordering** [LM05a, OKLS15]. **Reorderings** [Saa05]. **Reorthogonalization** [GL03]. **Repeated** [HHT+16]. **Replication** [WM09].

**Replacement** [vdVY00]. **Representation** [CCA03, DG08, DC010, Ett16, Li99, LJ17, LT21, SDNL10, TW03]. **Representations** [AAB+15b, BDvdG05, BD05, CML+18a, DLY17, DNP+04, FNTB18, IK10, MC09, PSD12, PSC+16, PH16, SG04, SW10b, VDD19, XD21].

**Represented** [Zha18a]. **Reproducible** [DTT+16]. **Reproducing** [TY08, XKWY08, DR93a]. **Reproduction** [ZH21]. **Requirement** [BSBV10].

**Requirements** [BT03c]. **Rescaled** [DFQ14]. **Rescaling** [BM00]. **Research** [GL10, JF11]. **Reservoir** [BLV17, BGL+21, ICCVEKV17, SCS04, DS95a]. **Residence** [HL19]. **Residual** [AB02, AD14, AT17, ALMT20, BC09a, BHH13, BKT21, CW12, ELW20, EG18, HS17, HY10, KMW15, KA95, LRS02, Li96, LN04, LD03, NFFP18, NM13, PS02, PMR16, Rad16, RJW20, SZP19, SV01, Ton94, VK15, VYX16, ZW94, vdVY00, Bia94, CS+94, Ewa97, Fre93].

**Residual-Based** [KMW15, SZP19]. **Residual-Free** [HY10]. **Residuals** [LRS02, vdVY00]. **Resilience** [HGRW16]. **Resilient** [AGSZ16, SRM+15]. **Resistive** [AMMR10, AMM+10, ABM+13, ABC+16, CST+13, PSC+16].

**Resistivity** [DSZ13, PDTVM08, vdDA12]. **Resolution** [AMVR17, ANP00, BAFF00, CCSS03, DHE13, DMD+12, FHL13, FM07, Gob08, HBL05, Kup98, Ld12, LNP+07, LS95, LFB13, LOL13, LT00, MP20b, MT19b, MR02, PL06, Ros06b, TW05, We20, BM16]. **Resolution-Optimal** [AMVR17].

**Resolving** [TT96a, TGS08]. **RESPA** [MI03]. **RESPA/Impulse** [MI03].

**Response** [BTGH12, CVK13, RS13, SSDN12, ZMcS21]. **Response-Excitation** [CVK13]. **Responses** [Cab94, HSK19, Lin06]. **Resputtering** [GST+99]. **Restart** [AGSZ16, KLY07, LXV+16, TE07, WXS19]. **Restarted** [ARMNW10, BCR03, BR05a, CGL+12, DCP11, EPE05, FG98, JN10, SSW98, VL10]. **Restarting** [BGH13, BKT21, GGPV10, Mee01, Mor02, MN11, RF07, SSW98].

**Restarts** [BMRR20]. **Restoration** [CCSS08, CGM99, CMM00, CJK10, EK10, FNNB05, FNB06, GY05, GRMS09, GLN09, HS06d, HLZ13, LCT13, NWY10, NP14, WNC08, ZWZ+13].

**Restraining** [BBSW16, NO98]. **Restricted** [CS99, CL11, EHLJW20, HJN17, LS05a, PC07, SCGT07].

**Restriction** [CCV14, MRS18]. **Result** [Van00]. **Results** [ABBM98b, CLMM00a, CLMM00b, CKS01, CV01a, DSV02a, FTM95, MCG96, MCG97, MM00b].
[BJW18a, CPP+17, GG18, LNP15, SO15].

Rules
[Alp99, CKN06, GMvdV19, GM98, GPTV15, LL03b, MC05, Str95, WS06, Wan07b]. Run
[HR98a]. Runge
[AGC96, AM17, AHI00, BM17b, BR09, BPR13, BM+15, BRW10, CSS93b, CHAMR06, CGAD95, Cas05, EM96, Fis19, GMM15, HMR09, Jay98, JWC21, Ketz08, KCB17, Mcl07, MRS14, OS98, PT99, PP05, PKD13, Pir16, QS05a, QS05b, RHL+21, RSD+20, RM08b, SS93a, TVA02, TLT12, TP09, VS04, Zbi11].

Running
[DP09].

S
[AC08, PL21, PM03]. S-ROCK
[AC08]. S-Transform
[PM03]. SABR
[LSPRV21]. Saddle
[BM17b, BR09, BPR13, BM+15, BRW10, CSS93b, CHAMR06, CGAD95, Cas05, EM96, Fis19, GMM15, HMR09, Jay98, JWC21, Ketz08, KCB17, Mcl07, MRS14, OS98, PT99, PP05, PKD13, Pir16, QS05a, QS05b, RHL+21, RSD+20, RM08b, SS93a, TVA02, TLT12, TP09, VS04, Zbi11].

S-ROCK
[AC08]. S-Transform
[PM03]. SABR
[LSPRV21]. SABR/IBOR
[LSPRV21]. SABR/IBOR
[LSPRV21]. Saddle
[BM17b, BR09, BPR13, BM+15, BRW10, CSS93b, CHAMR06, CGAD95, Cas05, EM96, Fis19, GMM15, HMR09, Jay98, JWC21, Ketz08, KCB17, Mcl07, MRS14, OS98, PT99, PP05, PKD13, Pir16, QS05a, QS05b, RHL+21, RSD+20, RM08b, SS93a, TVA02, TLT12, TP09, VS04, Zbi11].

SAI
[MG09]. Saint
[LCJ+20]. Saint-Venant
[LJC+20]. SALSA
[FLM+05]. Sample
[BGMW17, Kaw15, Kaw17, KL94]. Sampler
[FL18, YW12]. Samples
[RNV19]. Sampling
[AK15, ABL20a, AHDK14, ABCP08, AWA+18, BSHL14, BCMW20, BBC916, BCSS21, Bon01, BV16, BCV13, CLLW20, CS14, CILZ15, CIZ18, CHZ21, CGM00b, CHM02, CML+18b, CGF21, DGS08, DHN17, EBS+11, GLR+16, GCG+19, GNY18, GJ21, HN09, HJZ18, JNZ17, JBL18, Kaw17, Kaw18, LLZ08, LLZ09, MFSY19, Mar16, MTTM08, Mit08, MDG+18, OKD16, OV1V17, PF12, PHJ11, Peh20a, PDG20, Peh20b, QDKW18, Sch10, WLPU20, Wal14, WBTG18, WI2b, ZWH+14, ZWH21].

Sandpiles
[TVF06]. SART
[JI08]. SAT
[Gas13]. Satisfying
[ADM+15, Bre17, FK19, LLLX16, LY14, ZLS12]. Saturated
[FK97, SCC17, SCM14, Sta00]. Saturated-Unsaturated
[FK97]. SAV
[LL20, AL19]. Savart
[PRM09, Ros06a]. Saxton
[XS08]. SBP
[Gas13]. Scalability
[CGSR20, CFH+00, GRS+15, HJ98, PDE+17, SMYS21]. Scalable
[APSG16, AVBTG17, ARM+19, BMP14, BCMW20, BDGK18, BM19, BOKCW20, BWG11, DU19, DKL+19, DTT+16, DV20, GTK+17, GBC+20, Gon15, GT19, KMA+12, KLR15, KPPS14, KC16, MZW09, MZGW16, MPS09, NKG21, OKF14, PL12, PSC18, Sch10, WLX+13, WG20, XOMM10, YC14].

Scalar
[ADR14, AHV18, BG20, CS18b, CS20, GGS08, HC20b, HSY20, HS21, JY21, LL20, Mar94, NMAB11, TLE12, ZD19].

Scale
[AAHH+19, AVBTG17, BCR03, BS05a, Ban08a, BSSW13, BBKS20, BHT09, BPS15, BTY08, BB05, BCL99, BTGW08, BTGH12, CEJ+10, CV15, CCQ16, CN10, CP15b, CS17, CSW10, DDF21a, DDQ18, DJT08, DKL90, EHL06, FH21, FWA+11, FB95, FGH+08, GLSTV16, GM00a, HMAS17, HP08, JR19, KFR21, KS20, KV13, LT09, LWG10, MWBG12, NN19, OPRB06, OKF14, PS18, PKR+13, PHW19, RWDL19, RS02, RM08a, SBR06, SWW08, SWB16, SR18, SSW12, SSJ21, Sim07, SXV15, VH20, VMG09, VDD19, WWYY20, WM05, WT01, WRS17, Xue18, YPN+01, YGB+05, YMM14, ZYSL15, ZCC+16, BESS19, BH89, CV12, ST94, TW93]. Scale-Bridging
[KR+13].

Scale-Free
[KV13]. Scale-Invariant
[RWD19]. Scaled
[BCP15, GNO14]. Scales
[BMP16, RSS20, RDP08]. Scaling
[ACG+11, AMH12, BDM+18, BPS+14a, BCK16, DRW20, KL15, ROM18, SIDR15, Sch19, SJD14, XSC21, KOR93]. Scaling-Squaring
[SIDR15]. Scalings
[JLP18]. Scanned
[KT14]. Scanning
Scattered [EO16b, GSW20, ILW17, KP07, LLHF13, LR99, RG20].

Scattering [AAAH +19, AIL05, BL03a, BS05b, BYZ19, BB10, BC06, BNPR07, BER17, BCI12, BS06a, CCC18, CMM00, CHM02, ELH20, GH15b, HN20, HV07, JLY08, KY19, Kon21, LAS14, LL19, LZ17a, Lee10a, LLZ08, LLS19, LH19, MG07, MZ94, NS06, PS10b, QZZ19, Rah00, RZ03, SPS18, SM18, FYW19, YGW21, Zha18b, ZB12, MMM +95, WM93].

Scheduling [AKK18, BGR +17, MDM15].

Scheme [AIP19, AH18, AT17, ALMT20, ALRT17, AT19, AD18b, ANP00, Aru12, AR99, ABB +04, BBM220, BM11, BKK21, BCT05, BSM16, BM08, BCF12, BF06, BKF19, BFS16, BHK12, CCFF12, CCJ12, CFR05, CK15, CH94, CJOy5a, CWHJ12, CFJT18, CG96, CPR11, DW97a, DW98, DY06, DFS17, Dax03, DKKP14, DLV17, DGL16, DB07, FKQS17, FF05, FCM12, GCD21, GW15, GLST16, GLL01, GB06b, GG05, GX16b, HCR13, HJP04, HRS12, HWZ19, HL13, JNZ17, JS10, KK98, KSM18b, Kon21, KQW04, KTSB19, Kup98, Kup01, KL00a, KPW17, LFH19, LZG20, LNP +07, LE17, LSW17, LM08, LPR02, LTL21, LV13, LCJ +20, LW20a, Lin20, LXL11, LW19b, MR12, MAB007, MM19, MS06b, MW15, MEF09, Na98, NN19, Pet01, PJ96, QS08b, RY03, Ros96, Sha21a, SZ06, SY08, SZZ21].

Scheme [Slo02, SZ20, TWZ21, VS04, WL97, WDE +99, Wan04, WDG +18, WYT18, WY19, WM11, WT16, Xu09, YJ13, Yan21, Yu01, YCY19, ZHY21, ZZ221, ZCQQ21, dLR709, McG95, ZSpH14, NBA +14].

Schemes [AO2, Ab09, ADR14, AT20, AM20, AKPR08, AB06, BGL08, BLH02, BT06, BBC +01, BAFF00, BM08, BCF13, BPR99, BP12, BV09, BS04, BM10a, BM10b, BH08, BR09, BPR13, BHT11, BC99, BL03c, BL05, BCV13, BKB18, CFGM11, CZK15b, CZZK16, CCKP21, CPRR12, CEOR18, CHKM13, CCM08, CGK13, CGV18, CLAT10, CYZ17, CD20, CS09, CR09, CLTX15, CL21, CHL16a, CHL16b, Dar21, DMB10, DEP11, DB17, EF05, FGS14, FO19, FM11, FsvdV98a, FRS19, FMB13, FK19, FEM08, G012, GCB15, GZY18, GW20, GS17, GRK16, GML +21, HKYY16, HOY03, HS05b, HSWW08, HPS06, HS98, HX21, HS21, ILK05, JILGZ20, JL11, Jia14, JT08, JP00, JSZ13, JX13, JWC21, Jin99, JW13, JLZ16b, KPS19b, KS14, KW10b, KNP01, KPP07, KP09b, LD12, LS12a, LO19, LE10].

Schemes [LV13, LL98a, LNS06, LL10, LM05b, LM12, LP00, LNS06, Li01, LN03, LT00, LW03, LS11, LPS13, LY14, LP03, Lu95, MV09, MNS07, MB13, MMS05, MR01, NN03, Nor07, OL98, PPR05, PKD13, PL21, Pet05, PPR19, PP12b, Pup03, QS03, RSD +20, RU01, RSS20, Roe98, SL11, SRS19, SKW18, ST14a, Se19, SY09, SY18, Ste00, Su00, TB99a, TW05, TSX17, Tor05, TJK16, VN03, VS03, WL01, WD20, WBFA09, Win10, WS20, YHS07, YY18, Zen16, ZS03, ZLS12, ZZV11, ZW03, ZFZ14, ZLW16, ZZZ20, ZQ17, ZQ18, ZL20, HB97, HS97, LSR93, NSS93b].

Schmidt [CCJ07, GL03, Ste08].

Scholes [iW11].

Schrödinger [ADK03, AP19, ABK11, BJM03, BCM11, Bru15, CCG14a, CCJ07, CMZ19, CRV14, DLY16, F99, GRP01, HWZ19, KL13b, LZ17b, LZW17, LZ218, Liv09, Luo9, MCL19, SSH19, YHL19, ZSpH14].

Schr [ARS21, BS05e, BG05a, BG05b, Bla03, CGL01, D95a, DX18, FCR93, HK18, Hs07, Kra12, L16 +, L50a, MG11, Mal07, MRT00, MAA98, MFPG18, OV07, PE00, PL21, PSLH14, SS99, WB09].

Schr Type [PE00].

Schr Type P [LS05].

Schwarz [And08, AD10, BT03b, Bau08b, BGOD08, BC10, Bre00, Cal94, CGK +98, CS99, CL11,
CPW15, CC12a, AGJT21, DK11, DGGG09, DGGG9 +16, DGL +12, EDGL12, GMN02, GR05a, GK12, GX16a, GZ16, GV19, GJS19, GV20, Gar96, GKV00, Gar05, GSV20a, GH99, GC97, HJN17, HR07, HKR16, HKKR19, HHK19, HL20, KC16, KGK +16, DGL +12, EDGL12, GMN02, GR05a, GK12, GX16a, GZ16, GV19, GJS19, GV20, TBC +11, MY21, Sec [IT14].


Science [HC21, JKR08, WRB +15].

Search [CKXZ18, GKL08, GT19, HKT01, LST07, OW02, SV17, Wan13, WJW17, XB16].

Score [BCJ +21, Ng94]. Score-Based [BCJ +21]. SDD [CLB21]. SDE [ABE +17, BM17a, GS14]. SDEs [BGS17, KS17, Vil15]. SDP [BTY08, LT09]. SDP-Based [LT09]. Seamless [GC17a].

Second [AVZ13, AdWR17, BBSW16, BS05a, BBHJ21, BGN07, BBI5a, Brc17, BLL07, Cas05, CK15, CY17, CM09, DM13a, DZ15, Del14, DG09, DAE02, DPH17, DKM14b, EHLW20, EI01, FL19, GV19, GW15, GBCT10, Gia18, GY05, GZFY18, GZ18, GLT09, GNPT18, GdLP +18, HW13, HL09, HH11, JILLGZ20, KM11, KPO9a, KO05, KLLY20, KC17, KM05, KWP98, KPW17, KL11, LZZ18, LN03, RM08a, ST03, VSBB99, Yan21, ZLLT15, ZYSL15, AdWR17, GY05].

Seismic [AKM +14a, BU15, BTGMS13, MBBG12, PDC99, vHL14]. Selected [LYL +11, dVL10]. Selection [AdVC00, CZ13, DG16, JMS16, Lin16, MS07a, SX16b, Wei99, YYWY18, dVPS +17]. Relative [GL03, Gup17, RT10]. Selector [FLX21, WY12]. Self [Bou01, De 12b, GGS19, GHK14, VL13, PPTVM08, PCL +16, WMUZ13, Sta97].

Self-Adaptive [PPTVM08, PCL +16]. Self-Consistent [LY13, WMUZ13].

Self-Learning [De 12b]. Self-propelled [GHK14]. Selfadjoint [CPV95]. Semantic [ZS99]. Semi [ALJ99, ACF09, BT06, BCT05, BSM16, BP13a, BF14, CF07, CS06, GC16a, GRL10, GX16b, HMR09, KS13, Kor15, LL02, Lay03, MB17, MO10, PS19a, PPRS19, RG09, RLM +00, ZTKB18, ZCQQ21, dFL05, HO96a].

Semi-Conservative [PPRS19]. Semi-Discrete [BT06]. Semi-Implicit [ALJ99, ACF09, CS06, GRL10, GX16b, HMR09, LL02, MO10, RG09, ZTKB18, BCT05, GC16a, KS13]. Semi-Lagrangian [BSMM16, BP13a, BF14, CF07, Kor15, LL02, Lay03, MB17, PS19a, RLM +00, ZCQQ21, dFL05]. semi-Toeplitz [HO96a].

Semianalytic [MS07e, Zha18a]. Semiblind [BDR18]. Semi-circle [BMA19].

Semicircle [HO94, HO96b, HBS00].
Semiclassical [BJM03, BG07, FGL09].
Semicoarsening [BFJ00, Den97a, Sch98, WO98].
Semicontinuous [BFJ00, Den97a, Sch98, WO98].
Semi flows [AN00, BG07, DHL21, GJ08, JW13, Kla98a, Kla99, MT96, RWA95, Sar98].
Semicontinuous [BJ08, CCM05, DJP00, HJP03].
Semiconvergence [EHN12].
Semidefinite [Gri94, HGZ17, KLLY20, KOSB16, LWWYxY18, ST14a].
Semidiscrete [BP13b, KP12b, KL00a, KNP01, KPP07, LMM18, TWK18].
Semilinear [AW15, BF95, CN10, RT99, dBMZ11, DLG97].
Semiorthogonal [Ste02].
Semiseparable [GCG+19, WLX+13].
Semismooth [BU15, FLX21, LWYxY18].
SeMPIHT [dMGF17].
Sense [BW96].
Sensing [ADLW19, DFG15, KBV09, TCDS21, YZ11, YLHX15].
Sensitive [Hwa07].
Sensitivities [AL07, GK13, MNBK10, MM14].
Sensitivity [ACY+20, Bar05, BBR04, BV00, BBC07, CLPS03, CDF18a, CKLP11, CAG+19, Gh15b, GV07b, GM00a, HTMM15, KSB11, PVL17, SD21, TB02, WTWB09, ZPE12].
Sensor [GS12, KZK17].
Sensor-Location [GS12].
Separable [BG07, BF95, CN10, RT99, dBMZ11, DLG97].
Separately [AMH15].
Separation [HCS13, LJ17, LZ20, PHW19, SX11].
Separators [KPÇA12, MTTV98].
Sequence [HCS13, KL13, LZ20, PHW19, SX11].
Sequences [ACW21, BRZ14, HHL00, JK08, MC94, NHSS13, PdSM+06, PV08, TT07, Pe93].
Sequential [AL97, AL99b, BDHS10, CGGD11, DHL12, DTv13, HS99a, LL08, OK13, WLPU20, WRB+15, Yan19, vdHCDD15].
Sequentially [dMGF17].
Serial [LSW02].
Serially [CDY07b].
Set [AM18, BS98, Bar00, Bar05, F008, H14a, HCHS13, Hor10, IK10, RO12, WM05].
Set [BP13a, BH11, COS06, CGS02, CDG+13, Cho09, F007, GKL08, HS08, KP11, KS13, KKK18, LCG21, LQH21, LST07, LTYC17, MO00, MO10, MvdM21, NKM10, P17, PD12, PST15, QQ06, RS00, SF99, TKW08, V16, W16, Y16, Z114, Zi10].
Set-Valued [PVC17].
Sets [BBC+21b, CHX15, CWD13, FD03, HMST11, LZ13b, MYN20, MDC08, NX13, PD15, PK16, Z18a].
Setting [OW02].
Several [EK94, LW03, vD03, HHRV93].
Shadowing [CV94, HJ07, Van95, Van00].
Shafranov [LTZ21, PTT20a].
Shah [CCS+19, DMN08].
Shaklov [CLQ12].
Shaking [GL15].
Shallow [AK09, ABB+04, BBSV10, BM08, BP12, BCCX21, BL05, BT16, CLP08, D12, FS01, FM11, GdLP+18, HK02, KP09b, Lay03, Le 05, LR07, LP08, LSO11, LM21, L13, Mar09, M12, MKS21, PS19a, RL08, RLM+00, TC12, YCC10].
Shallow-Water [BP12, CLP08, Le 05, LR07, LP08, LSO11, RL08, RLM+00, TC12].
Sham [D17, DL20a, LY13, YMW07].
Shannon [OG016].
Shape [ACLZ15, BB19, BLS21, BHC12, CC12a, CDM+13, CGMV05, DEM+20, DD12, DM08, DFJS19, EHL20, GLL+15, GHHPK15, GMV99, HT13b, HSU21, HS06b, Haz08a, Haz08b, HL19, ISW18, MBGV16, PWF18, SSW18, Sch18, SW17, SSJB17, SD21, vdZvBV10b].
Shape-Driven [DEM+20].
Shape-Linearization [vdZvBV10b].
Shapes [BW20, DCSO10].
Shared [GS15, OA20, Til15, NP93a].
Shared-memory [NP93a].
Shared/Distributed [GS15].
Shared/Distributed-Memory [GS15].
Sharp
[BFSN08, GCS19, GvdV17, XLG+16, ZD09]. Sharpening [Rei18]. Sharper [HM20a, Van00]. Shaw [ZLY+18]. Shear [GT98, TW96]. Sheet [BN98a, BSA13, ISG15, Nif99, PMSG14, TPT+16]. Sheets [ALMR17]. Shell [LCH99, Ned16]. Sherman [BCNM03]. Shield [ST03]. Shift [CLL20, CG17, LPS10, ZTK19]. Shift-and-Invert [ZTK19]. Shift-Invert [LPS10]. Shifted [BKL+17, BvG15, BDD11, CG17, CGX21, FG98, FKN+20, RSM18, SBK13, Soo16, WJW12, YBHY15, vGEV07]. Shifted-Inverse [YBH15]. Shifting [Wat94]. Shifts [DKZ09, DLZ10]. Shiu [LSY21]. Shock [CC98, CLLY20, DW97a, DGLW16, FL97, GKK+04a, Hwa07, Men94, WL97, WD+18, Wu99]. Shock-Induced [CC98]. Shock-Stable [CLLY20]. Shooting [CGR14, HM10a, Lam97, Ran93]. Short [CW16b]. Shortening [BM11, MNR19]. Shot [CC12a, Gub96, Haz08a]. Shot-Noise [Gub96]. Should [Che16]. Shrinkage [BL08b, MF06, WYGZ10, YYWY18]. Shrinking [YZZ19, ZD16, ZLY+18]. Shuffling [Gre03]. SIAC [vSRV11]. SIAM [BEM94]. Side [BCC198, CB98, ELW20, SO10]. Sided [BB15b, LMT18, WMMK19]. Sides [ARMNW10, ALM19, BT03b, CGL+13, HR05, KMR01, LN04, MN11, SG95, Soo16, CW97]. Sideways [EBR00]. Sierpinski [BBSV10]. Sigma [Yun03, YK03]. Signal [BSS09, GM17, Gar97, ROO08b, SQ002]. Sign-Definite [GM17]. Signal [BS95, EK10, LKBJ18, NN05, RWDL19, KXZ95]. Signaling [SAE10]. Signals [BBR08, GG09, HTH+16, SWU16]. Signatures [DG17a]. Signed [FMS17, ST14b]. Significant [Nik13]. Signorini [CBK18, DEP11, Rad16]. Silicon [Bi09]. SIMD [BPT93, CP95, KHW+14, MH95]. Similarity [Pel18]. Simple [Abg09, BMTZ13, Bre96, Du11, GNOR14, GLQ18, GSN21, HT14b, HKV18, HZ20, HS94, KV96, LNH96, Mac98, MP20a, MY20, PNP13, Ren15, SA99, Svo08]. Simplex [Che05, HDZ16, WI12a, WI12b]. Simplices [Isa20, Kir14]. Simplicial [Mau95, MAK20, Ols07]. Simplification [KLML18]. Simplified [BH12, BRZ14, EIL+09, HZ10, LD05]. Simply [DP98, NN18]. Simulate [DR13]. Simulating [AL99b, HP19, MBGV16, MDC98, MM07, SAE10, WGF08, ZMQ21]. Simulation [Ana98, AL07, BB13, BST08, BLY17, BGL+21, BG07, Bi09, BLGL11, BBM+08, BEOR17, CMM5, CLQ12, CM09, CC98, CLP08, CBCR14, CLK18, ICCVE17, CBF17, CVE13, DMR17, DN97, Dor98, DP16, EAS08, EAA21, EFHL09, EKS16, EdDP09, FFMT06, FL04, GM17, GHTW00, GY06, GL15, GM20, HA01, HS16, HBO+16, HK03, HPO08, HPO4, HZW19, HSW10, HSSZ09, JP14, KBK+08, KR02, KP06a, KLT06, K040, KKT19, Kös07, LL19, LL03b, LY98, LLZ15, LNA+11, MTV16, NK13, NHH09, ON17, Ökt05, PDTV08, PP13, QS14, RWA95, SB13, SCS04, SD11, TKW08, TK13, Ten98, TAY+19, TYUC19, VBA18, Wal18, WZ18, WLK06, WPT17, WFAP15, XW05, YC14, YT21, YGS+21, ZHQ20, DS05a, MT97a]. Simulations [BBSV10, BHvST14, BPS13a, BPSV15, BPSG21, BN21, BRK16, CL03, CW06, CGW10, DGS16, Don06, EHL06, FHI+18, FTY15, FNL+19, FY14, GHK14, GST+99, Gob08, GM14b, GC16b, GZT+19, GX20, HHLZ21, Har08, HKC+04, HJPO4, IP06, JP01, KKP14, LJJ09, LP04, LHR+18, LZ04, NK15, NKT08, NH14, OF14, PS10a, PKS21, Ros97, RSHK11, SM17, SXX17, SNB08, Str99, SRW+18, TTS08, WSA16, WPGR13, XCS16, XLG+16, ZSD+10, YGCP96]. Simulator [PYS13]. Simultaneous [AA14, AdSK19, ADL19, ADLW19, ADLW20].
BIYS00, Bre99, BC99, BC08, BC09b, BDG20, BWZ10, BBR08, BKS98, BTGH12, CG18, CKS01, CGL+13, CR04, CLPS03, CH17, CH18, CP05, CAA20, DKDH20, DD00, DF20, DL19, DKKP14, DB94, DAE02, DKO12, DKZ09, DSZ13, DHZZ18, DTYY18, DL19, DKKP14, DB94, DAE02, DKO12, DKZ09, DSZ13, DHZZ18, DTYY18, DLP+21, EAS11, ES19, EM99, EHW00, FB21, FL97, GS16, GG19a, GLL+14, GLMN15, GHST98, GHN01, Gre93, GV98, GS00, GV09, GS97, HRT10, HG98, HW15, HT13b, HP94, HRS19, HHL07, HLM03, IM99, ISG15, JTZ08, JZ00, KW07, KBR+08, KKF11, KOG99, KMR01, KLN20, KR521, LVWW03, Lan94, LL98a, LLP98].

**Solution**

[LW19a, LS13a, LV10, LR20a, LM14a, LSN17, LB15, LO03, LLL08, MM13, MR09, MSW05, MPW98, MPW18, MT99, MFS98, NFFP18, OD12, PS13, PP05, PTT20b, QSO699, Rah96, SMZ18, SSW08, SE11, SP02, Sta00, SJ14, Tim99, TW95, VMG09, WS95, WWM03, X08, YG15, YHC16, Yan16, YV10B98, YP98, Zha20, Zhe07, ZHDZ17, ZS02, vWBV09, ABCR93, AS93, AO93, BZ96, BR95, BH97, BPH94, CDJ97, LV94, MCJN94, PCDB96, SRCG93, Tre97].

**Solution-Based**

[Ber98b, CCA20].

**Solutions**

[APZ13, AEFM17, ADKM03, AFF+15, AA13, AHDK14, AGH00, BK15, Bet08, BK04, BV00, BSB96, BBT11, BJW18a, CZZ15b, CZZ16, CEJ+10, CDF18a, CXY10, CK94, DTM05, DP03, Du11, Ema10, ELHR00, FS01, FB15, FL02, GA909, GKL+04a, GL99, HB111, JP08, KK02b, Kus00, LL21, LD03, LR98, MSO7d, MMRK13, MRL+17, PL03, PF2S1, RL18, RO15b, SB04, SE13, SB05, SK05, SMM10, VXCB16, WX04, WHL18, Wat04, XZ12, XX10H+17, ZGA10, Zha96, vSRV11, vdB08, vDa12, TR93].

**Solvability**

[CG95].

**Solution**

[BZ10, QSM19].

**Solve**

[CCF14, CFM98, EVLW17, FT03, GH13, Gar94, HP14, Hog13, PRS12, QZZ14, Sar98, VS17].

**Solved**

[MG11].

**Solver**

[AAAH+19, AHK+17, AG18, AAI19, ABL20a, ACW21, AIV98, AMT10, BDJ05, BLO4a, BACF08, BLO7a, BBF16, BPSV15, BG05a, BG05b, BCS11, BBD18, BLA99, BIA05, CB08, CGG+14, CLLY20, CP17, DMS01, DW97b, DHL21, DF10, DHL20, EG01, Fie98, GHRR19, GH18, GLR+16, GM14a, GAD+21, GHST98, GSO2b, Gur04, Hel11, Hen06, HD15, HG12, HG00, HYW20, Hwa07, IFSJ21, JCMS16, KZ15, KM18, KV12b, KL12, Kor15, KR12b, LAC14, LLW16, LNZ19b, LLO8, LB12, MR17, MB17, MGBD19, MM14, MK08, MSM14, MY20, OR02, OW98, PW98, PSS17, Rak21, RT99, RLM+00, SBK13, ST17a, SO18, TET10, Tor12, VB07, WRS17, XJBS12, XL20, XM0110, YC14, dIRR91, BCL97, EOD93, PTvR+14].

**Solvers**

[AC04, AHZ17, AKS05, AGL13, BMF19, BBKS20, BCK16, BHMX18, BD99b, BH07, BM13, CPS20, CR16, CGC21, CCER12, CM15, CDPC13, CR13, DDF21a, DS00, DMM04, DF12, DP19, EGG94, EPS09, EG18, FGMP13, FGMP14a, FGMP14b, FFMT96, GMS16, GGOY02, GRT05, GBC+20, GRS+15, GB006a, GKS98, GT19, GS97, Hig95, H069b, HGRW16, JSV10, KA95, WK00, KW18, LM00, LZ21a, LL00, LD16, Lex16, LT14, LCJ96, LGH+13, MO08, MS07c, MGSK10, MMR19, MHR20, MS06b, MBT21, Mee01, NS19, OOA20, PNM16, Pel18, PR05, PPB13, PF94, PR96, PCD17, RDW10, RV10, ST16a, Sem10, SLC01, TB21, UE12, WZ15, ZG17, dSO21, BME93, BEM94, CN93, JS93, Lie93, She94, She95, vd97].

**Solving**

[AFF+15, ACW12, AF15, ACD95, AH04, ADG+19, BS07, BSCV10, BW18, BW21, Bea20, BK06, BFN17, BT97, BGH+03, BH08, BHT11, BT13, BW96, BMMT14, BP06, BSS21, BWZ21, CLW13, CH09a, CK17, CJ111, Cz10, CS96, CN99, CLB21, CYDK21, CLST03, CS12, CMG00b, CHM02, DY06,
DLY14, DN13, DH01, DJLZ96, DS16, DSS20, DTYY18, DK03, EBR00, Elm98, Elm00, EPE05, Ett16, FF05, FMP06, FJJ+11, FKW13, Gar97, GG03, GZZ21, GJ21, HHE10, HZ10, HPZ19, Hol99, HVW95, HC98, HY10, HW09, HGZ17, IM97, JX13, KS20, KL13a, Kra09, KW10b, LV98, LL17, LCH09, LS17, LSY19, LZ13a, LSPRV21, MK00, Men11, Mir21, MR18, MNN00, Moo00, Mu99, NWY10, NvdP00, "Okt05, PE00, PL12, PEDD12, Pol16, PC21, Pul08, RNR16, RW01, ST17b, Sco17, ST19, Sim07].

Solving [SvG08, SV11, SO10, TO15, TCDS21, UG19, VP10, WLX+13, WiOH08, YC13, YDF97, YTL11, Yu01, ZLTT13, Zha97, ZJC12, ZGK20, ZW03, ZQ17, CW97, LZ94, MT97a, PSB06]. Some [AA13, BF01, BMR10, BDS98, BM12, BFS16, BT00b, Cho01, Chr09, Gar00, GH02, GLL21, Huc93, JZX21, Jin99, LZ16, Man95, Mic01, Moo00, OL98, PABG11, RWA95, SV08, SV11, SO10, TO15, TCDS21, UG19, VP10, WLX+13, WiOH08, YC13, YDF97, YTL11, Yu01, ZLTT13, Zha97, ZJC12, ZGK20, ZW03, ZQ17, CW97, LZ94, MT97a, PSB06].

Sonic [BD99b]. SOR [BD05, DB98, GK11b, RWA95, XA99, Xie05, Yav96]. Source [AgH00, BBK21, BKK+21, CGK13, Gia18, GHR12, GHR13, GMS18, HHP21, HR99a, HCS13, JL19, JW05, LLSX21, SKN9, SX11, WKM+07, ZTM+16]. Source-Term [ZTM+16]. Sources [AdS19+19, AKM+13, BT21, GKRNS19, KBV09, WLE+00]. Space [ALLK15, And16, BO17, BK99, BCMW20, BBH18, BC09a, Ber95b, BCJ+21, BP13b, BV16, BRZ14, BDE08, BBH20, BTWG08, Bur97, BH12, BH16, CPW15, CDG17, CSB+18, CMS94, CCR21, CC19, CHO12, CFF96, CCG14b, DDMQ18, Do98, Dk00, DJT08, DT00, DSMC18, DW15b, DMD+12, DB07, DGyvd18, EKS15, FDE+06, FMB13, FK21, Fu21, GS98a, GN16, GJZ18, GOV06, GRPK19, GMPZ06, GZ19, HP14, HKR16, HHW00, HLS19, HV95, HC98, HHLW15, ISS19, KV20b, KV12b, KS14, Kye12, LZ21a, LSY21, Leh15, LSC18, LSY19, Moo00, MCV17, NHSS13, NXDS11, NT18, PNV16, PvdVvG17, PS19b, PBC05, RF10, SV08a, SSR21, Str94, TY08, TW05, VBA18, WMC12, WB12, WGT14, YTL11, YS16, YHC16, Yan14, Yu01, ZK14a, ZZ04, ZGK20, ZSpH14, ZLTA15, AE95, WMC11]. Space-Filling [BH16, GMPZ06]. Space-Fractional [ALLK15, DMSMC18, DW15b, GRPK19, PNW16, WB12, ZK14a]. Space-Invariant [BDE08]. Space-Time [BO17, BBH18, BV16, CDG17, GN16, HLS19, LZ21a, LSY21, LSC18, NT18, PvdVvG17, PS19b, SSR21].

Space-Transformation [HC98]. Spaced [GJLX16, Har11]. Spaces [ACK19, BKM19, CGS120, AGJT21, DW17, Doh21, EAA21, HKKR19, HK19, HL20, HHLW21, KKR16, KL16, L21a, LMM17, MS13, MT19a, MvST13, NS21, PF12, PV08, QZ14, SW17, SP16, WI12b, YZ05, ZT17]. SPAI [JZ13]. Spalart [DHE13]. Spanning [HKS19, PP97]. Spark [CH16]. Sparse [AKA13a, AGSS19, AGL10, AKA13b, AA14, AY15, ADL+12, ALM19, APC04, ABB+16, BK07, BW18, BW21, BSH16, BB08a, BGM13, BM95a, BMT96, BT98, BT00a, BT03c, BNP15, BBJF16, BCJF19, BAS09, Bt99, BC13, BES19, Bö09, BvW09, BS99b, BT09, BM11, BM01, BM03, BG12, But13, CS99, CH17, CAM03, tVČA10, CCQ16, CS98, Cho00, CLN12, CV98, CKL98, CHKsL20, CFM98, DS00, DLP05, DHL20, EJJH20, FLX21, FUNB18, FUL+20, FS11, FJHM19, GN14, GNL21, GLLS13, GSR19, GG05, GS98b, GHS+15, GKN18, GOV06, GDL07, GBD10, GCD18, GH97, Gug16, GC16b, HN19, HKK+13, HHL15, HJ18a, HCO5, HK00, HP94, HRS10, HWS05, HV07, JNZ17, JFG15, JY21, JL19, JL20, JJ13, JP08, KU18, KAU18, KDD0, KMSM14, KW+14, KM12, LSW02, LOSZ07, Lee13a, LSC03, LJ17]. Sparse [LYL+11, LGCL21, MW01, MW13, MDM15, MS20, N1K5, NJ14, OB21, OA93, OTV19,
Sparse-Approximate-Inverse [MG09].
Sparse-Dense [ST17b, ST19].
Sparse-Grid [BvW09]. Sparse-Sparse [CS98].
Sparsification [APSG14, BFG+16, GS18, PCD17].
Sparsified [TY15]. Sparsify [LY18].
Sparsity [ALM19, BZ21, BL08b, CPS20, Cho00].
Spartan [Hri03, Hri05]. Spatial [AD06, Boz09, CMM+07, CLAT10, DTT+16, FL19, HDF+19, JV96, KKP14, MT08, Min02, PV08, TP21, WP98, Zim13].
Spatially [AK04, BLMR02, CCA03, FUNB18, HTH+16, KS19, NO98, NNH99, OB21, OVV17, SM19]. Spatio [Yan18].
Spatio-Parameter [Yan18]. Spatiotemporal [BF16, LC05b]. SPD [GRT05, SIS96, Xia21]. SPADEs [ZKR15, ZK15, BAS09]. Special [Bal00, Ben13, Ben15, Ben17, Bre17, CVW06, DJM16, Elm98, Elm00, GL18, GW04a, GLR07, JKR08, KY14, MY21, Tn10, TBC+11, Vas07, Wan01, Yan19].
Specific [Wu21]. Specification [UG19].
Specified [FH21]. SPECT [JLO8]. Spectra [ADF+19, IW97, Mön08, VR14, XS16, BW93]. Spectral [AG18, ACLZ15, BDD+97, BT03a, BJM03, BLV17, BGL+21, BS05c, BG98, BMF19, BK00a, BK10, BEK16, Bjo95, Bla97, Bla98, BIA99, Bru15, BOPGF06, Buv20, CI19, CGQ10, CG99, CDG03, CGG07, Cas97, CCS97, CFH+03, Che05, CCO11, CEO11, CF05, CG07, CGI11, CRV13, DM16, DJT08, DL20a, DAE02, Doh21, DMSC18, DMM19, Du16, FTY15, FMRR13, FS02, FW97, FM16, GHHH17, GK11a, Gas13, GP99, GM14a, GRT05, GRM09, GS21, GX20, GML+21, GN07, HOV03, HMS17, HNS08, HL95, HT00, HAN19, HC20a, HCW20, KLV+16, KZK17, KS19, KBD21, KG14, LM20, LZ17b, LZK17, MS17, MC09, MT19b, MW08b, NH13, NN03, Ols07, OTH19, PKD13, PCFN16, Pav98, PZPR07, PWZ10, RS16, SDNL10, She99, SY10b, SY12, SWX16, SF08, SJD14, TW12, TWY20, TO15]. Spectral [TT06, TLE12, WHL18, WMHK19, WG00, XLS18, XSC21, XCS16, XL18, ZKN21, ZK14a, ZK14b, ZCMK14, ZK15, ZMK17, ZZ16, ZLT15, vGEV07, vHBTC12, Lie93, MMPR93, Nat95, Nat97, She94, She95, She97, Tan93, BT97].
Spectral-Galerkin [DAE02, She99, She95, She97, BT97].
Spectral/ [ZKR21]. Spectrally [BWV15, CBG12, CSZ20, HO18, JLR11, SL20]. Spectrum [AK15, BS06a, CFKM18, GKP3, ZB12, Gut93]. Speed [AIP19, CLLY20, DH21, HC20a, DS05b].
Sphere [BL07b, CF97, DLTZ06, ES00, FF05, FP07, GPS12, Lay03, LS00, MCB18, MN18, RLM+00, TDTF03, TW16W, WL11, Wan13, YCC10]. Spheres [EAA21, GJLX16]. Spherical [AA00, BLS06, BN00, BCY21, FF05, For95, GSV20a, GV13, KMS15, Li99, MK08, Nie16, RT05, She99, TWW16, WTK20, XCLQ20].
Spherically [WT16]. Spin [BL08a, CL18a, CBDW15, TCWW20]. Spin+ [TCWW20]. Split- [BL08a]. Spline [AG10, APB18, BF95, BFK03, BFK05, BF06, Bit99, BB15c, LS00, MS07d, Ng94, Red99, Sun95, TGC94, TV98b, Bia94, HHRV93]. Splines [BL06, HHL07, LS94, LZ13b, VHSP20, Woo94, Zha18a, AE95, Gu93]. Split [BAA00, HJMS07, Lee13a, LK15].
Split-Step [HJMS07]. Splitting [AB16a, BA05, BQQ08, BGLY05, BGL06a, BJM03, BS05c, BBC+21a, BCC20, BV20, B21, BCM11, BCCSS21, CGGGS15, CZK15b, CFSZ08, CS18a, CLST03, CDB13, CJK10, CJ05, DJT08, DMD+12, EO15, EO16a, EL18, FKQS17, FZB20, GLQ16, GLQ18, GKRb16, HLM9, HHH8, KQW04, LL00, LSN17, RX17, Rim18, RS16, RKW20, Sha21b, Sha03, SSN19, WL97, YHS07, Yun03, MTV16]. Splittings [JP95, MPRW98]. SPMR [EG18]. Spray [BCM15a]. Spread [BNP15, JBL18]. Spreading [Ros96]. Spring [CJ09, LP03]. Spring-Mass [LP03]. SQP [PBC05]. Square [AKA13a, FCZE14, GGM01, LZ17b, MT97b, RW06]. Squared [CCG14a, Gro02]. Squares [AMMR10, AMM+10, AMM+11, ABM+13, AV14, ALMR17, AD15, AMT10, BLH02, BGM13, BT03c, BDKR21, BS99b, BW96, BKKM10, BLM03, BMMT14, CLMM00a, CLMM00b, CPV95, Car10, CH07, COS21, CAS11, CC19, CP17, DMMO04, DMMO05, DC98, DP20, DMM20, DSS20, EHS+07, FMM98, FGH097, FS11, FNB06, GW17, GI17, GKK15, GNYZ18, HLMM06, HLM+09, HP21, Hsok17, HM20b, HY10, HY14, HJJL18, JR19, KMS15, LSH17, LMMR00, LFB13, Lee14, LM15, LLM17, LRS02, LD11, MWY17, NP14, PE00, PBtTB+15, QQOP99, RDB16, RtTBA21, ST16b, ST17b, Sco17, ST19, SX16b, SMTY21, Staa0, Str93, TZ14, TLH21, TBO10, WWYX20, Wat98, WPT17, XS16, You94, ZCC+16, ZWZ+13, ZNX14, dHHJ100, ten95, BR95, Daz93, NP96]. Squaring [AMH12, SIDR15]. Squeezing [HPZ19]. Stability [AD07, AW11, AP93]. ACF09, BYK05, BM10a, BM10b, COZ96, CRS+18, CH08a, CKNL11, CMF96, CS10c, DS899, DP07, DHE13, DR13, Dur16, ES18a, ELM21, FCF14, FDH+20, Gug16, HP94, Hig95, HV04, IM97, Ket08, KP07, LPR98, LZZ18, LC05b, MP20b, MR02, NH12, OB08, PDG20, QNNZ19, RP01, Ros15, RX18, Sch05, SZS07, SNB08, Str93, TYZ19, TLH21, WL08, WNG12, ZSB16]. Stability-Corrected [DR13]. Stability-Preserving [Ket08]. Stabilization [ABD+17, ABPW21, BBSW13, BS06b, LNP15, LR12, ZHS16]. Stabilized [AVZ13, AGH+20, AHN+20, ABN21, AV21, BHI4a, BM11, BBGS04, BCLT15, BBKT15, BL07b, BBRBT12, Bur13, Bur14, BCM15b, CSW14, EHS+07, EMNS20, Gar97, GMS20, JY21, KS99, LLJF21, NG18, Sch19, SV03, SSF16, ZSO2]. Stabilizer [MYZ21]. Stabilizer-Free [MYZ21]. Stabilizing [CD06, HiH18, VV98]. Stable [Abg09, AN16, ABP18, ABB+04, BN98a, BS05d, BDT21, BSU19, CGGGS15, CDC19, CWX15, CY17, CLLY20, DMM3a, DS16, DMK14b, ERSZ17, FM12, FP07, FLF11, GHMY18, GMV99, GZW18, GZW20, HT14b, He11, He98, HTO0, HY20, HS21, JL11, KG14, KLY19, KW16, KM12, LW12a, LO19, LLHF13, LLX15, LTT21, MC10, NH13, NS06, OH21, PCFN16, PSC+16, PJ96, QNNZ19, RSD+20, SBHS19, SWN20, SY14, SO09, TKCC13, WM20, WS20, YV18, Yan21, ZHY21, ZW221, ZYL16, ZK15, HG96, He97]. Stack [SNB16]. Stack-RLE [SNB16]. Stackelberg [dCFC20]. Stage [AKK18, BCG+10, LD16, OS98, SW09]. Staggered [AT17, ALMT20, GHTW00, GZW18, KZP20, MV09, PCFN16, TPB17, ZP18, ZP20]. Standard [CPW15, FKTW10, Lan19]. Star [GTMP07]. Starting [YCC99]. State [AB19, BD04, BCJ+21, Bla03, BK00b, CDG+09, Day98, DDD0, Elm99, FKQS17, FL02, Gar09, GMS16, HS06b, Haz08b, HLM15, HYYC16, JSPC97, KB14, KL02, KSW20, KK16, KTB19, LQH21, LWG10, LXX08, LYY20, MTT19a, MV06, NMFP16, Pet05, PS12, QS14, RCC18, Str00b, TP18, VBA18, VS17, WG12, JZH20].
State-Of-the-Art [GMSB16]. State-Space [VBA18]. States [BL08a, BR19, DP17, JSCB20, LC21, TWL21, TCWW20, ZDZ16].

Static
[ADGP07, DKL19, GDLO7, HH11, JKLZ18, KV20b, SP16, VP14, ZHL21, ALZ14].

Stationary [AOS20, CFC14, CRS21, DN97, EAA21, FMW19, FGM08, Gro02, JSCB20, KOSB16, LLP98, PEC14, RW13, RL13, Sar98, SK05, SSF16]. Statistical [CPT05].

Steady [AB19, CDG09, DD00, Elm99, Gär09, HLLM15, KLW02, LCY14, LS12, Str00b, TLN14, Wu99, KL93, MMPP93]. Steady-State [AB19, CDG09, DD00, Elm99, Gär09, HLLM15, KLW02, LS12, Str00b].

Steered [MPV21]. Stefan [BH11, CBK18].

Stein [CG21]. Steiner [EH09]. Steklov [Nat95, Nat97]. Stellarator [HJB04]. Stencil [BDM18, DRW20, GTK17, KP09a, LGH13, MHL15]. Stencil-Aware [LGH13]. Stencils [BR18, GV15, ITO09, LLHF13]. Stenotic [TY00].

Step [AP14, Bar99, BCF13, BFK05, BBC07, CFR05, Cas05, CGK13, CS96, CLST03, CSW10, GASS98, GvdV17, GV09, GM11, HS05a, HLW00, H.jms07, H.LZ13, Jah04, KR21, KW15, LHY16, LNP15, MPV21, Mou20, SB13, AMN15, CSS93a].

Step-Sizes [MPV21]. Stepping [AM17, CS10b, DO90, EJL03, GGS08, GMM15, GM15b, GM19b, GML17, JGLZ20, KTO5, KGG10, KR11, Li06, ODN17, QZT11, SKWK18, SNB08, TT20, LK93].

Steps [LTT21, MPV21]. Stepsize [BLR99, BB02, DGLL21, KW10a, RW06]. Stepsizes [HS97]. Stepwise [AdVC00].


Stiff [AC08, AVZ13, AV21, BJ01, BQR18, DWQY19, EJL03, G03, HG98, HR99a, KT05, KW15, KK16, KR12b, LG97, LT14, MN18, ÖB05, RSW10, RSS20, JS93, PEM93, Ver94].

Stiffness [GMvdV19]. Stirred [BK04]. Stochastic [AE08, AC08, ACV12, AV13, AB16a, BCT07, BBP13, BS16b, BLY21, BPT19, BV16, BRW10, BB02, BLL07, BDW11, BJW18a, CZZ15a, CYDK21, CBG19, CCG14b, CHM21, CML17, CML18b, CVE13, CPB19, DEN21, DKM14a, DNP04, DT16, DP16, EW00, ES19, EFHL09, EPSU09, FS12, FS13, GH15b, GY11, GW20, GM80, GLMN15, GKB16, GM11, GNZC17, GK13, HHS16, HMAS17, HAG17, HWZ19, HJX15, IP06, IT09b, JLS03, JLY16, LNP16, MPV21, Mou20, MWWB12, MW03, MEH16, MNvST13, MT07b, MT06, Mis01, MTV16, MS07c, MS18b, MW16, NX12, NJ14, NGX14, NT18, OKD16, OL80, PW12, PSLG14, PMSG14, PEID12, PP12b, PSS17].

Stochastic [QS08a, RW06, RKvdDA14, RV10, SDNL10, SB13, TLN14, TVA02, TLE12, TCC18, U110, UEE12, UG19, V114, WXK04, WGT14, WRB15, WZG021, WI12a, WI12b, WAP15, XK02, YG15, YZK20, YTT21, ZRKT12, ZFwCW15, ZBK18, ZGK20, ZCP06, ZFZ14, Zy11, vdDA12]. Stochastically [HGP14]. Stockwell [WO09]. Stokes [GHMY18, HLLM15, ZX10, ABD17, AFOQ19, AOS20, ABN21, ABS96, ACL09, AHT17, BMV18, BBH00b, BBSW15, BWV15, BBGS04, BDK17, BSSW13, BLO7a, BW11, BS15a, Ber97, BBK19, BT13, BCM15b, CLMM00b, CW07, CHL20, CGP12, CMS17, CP13, CSL16, CST16, DG98, DLTZ05, DS17, DHE13, EAS01, ES96, Em99, EHS17, EMA97, FMW19, FF05, FGM08, GH13,
GNOR14, GK18, GP99, GRL10, GRS+15, GHST08, GW98, GK98, GO09, GLOR16, GM15b, GM19b, GZ19, HSBO20, HG96, Hes97, Hes98, HLM+09, HBS00, HQH+16, ISG15, JL11, JVG12, JK05, JK00, KS99, KLV02, KL05, KW07, KGGS10, KL06, KL10, KZP20, KGR16, KOV15, KBG18, LW12a, LHL12, LL98, LL97, LL03a, LM20, LL00, LCW95, LLL10, LRT11, LKB18, Lui01, LRG017, MMPR93, MP20b, MP08, MS18a, MS20, MYZ21, NSK10, Not17].

Stokes [OR02, OQRY18, PCFN16, Pav98, PT01, PP08b, PRR05, PM95, PS12, RSD+20, RX17, RV11, RG09, RSG17, SS98, SWT10, Sma01, SSF16, SVY09, WWY09, WWY11, YSZ14, dVL10].

Stokes-Type [GO09].

Stokeslet [GCS19].

Stokeslets [Cor01].

Stopping [AGL13, BHvST14, BR05b, CPP+17, EV13, FS08, GCG+19, JSV10, Mar01].

Storage [CF07, CC18, Ket08, KMSM14, LW14, RY03, RL09, War13, WM11].

Strain [CEP20].

Strang [BV20, SSN19].

Strassen [HMvdG18].

Stratified [GLSTV16, LLS19].

Stream [AH12, GV16, Kup01, PM95].

Stream-Tube [AH12].

Streaming [Köss07, SCM10, TYU19].

Streamline [AKM14b, LR12].

Strengthened [LZ09].

Stress [Del14, GP09, MZ92, RC20].

Strategies [Nie16].

Stretching [DR13, ST19].

Strictly [KY19a, KLY12].

String [WS07].

Strip [QSV06].

Stress [Coa12].

Strong [BCK16, CCL+20, CS10c, GE96, KM11, Ket08, Sch18, WGT14].

Strong-Stability-Preserving [CS10c].

Strongly [MS14, WYT18, vD03].

Structural [BTB05, BT00b, CT15, RMB00, SP02, Smi97, EL93].

Structurally [HK00].

Structure [AH17, AFS19, AC09, BQQ08, BC10, BB15a, BM17b, BCK16, BKG19, CHV+18, CT15, CBG16, CR50, CDFQ11, DLZZ17, DLY14, DJP00, DMM20, DCL+21, EKLS+18, FUNB18, GSV20a, HMLH18, HLM03, Hwa07, Jay98, KV05, KPPS14, KSV16, LQR12, LTVYX18, LNC05, LYL+11, LXS08, MKW15G, MW01, MTA08, N0V08, PE00, Pd18, PV11, PS18, RW13, Rub12, SM17, SOTB21, TMM20, WMU13, WQX20, WX21, ZK02, ZK12, ZZZ14, ZS21, ZW21, ZZ21, ZVF18, vDB05].

Structure-Exploiting [ZMS21].

Structure-Preserving [CBG16, CRS20, DCL+21, EKLS+18, HMLH18, HLM03, MW01, WQX20, WX21, ZK12, ZK12, ZWW21, BM17b].

Structured [BKS16b, BD05, CDY07b, CJ99, CX08, EZ11, FNB06, GNL14, G030, HG12, HJL+19, KKT13, KKS13, KKF11, KS11, Kim08, Le10, LYL+11, LXX16, Mar16, MRR19, PS11b, RKL07, ROM18, Ros15, SR18, SW16, VM13, VXC16, Xia13, XXH+17, ZJC12, ZW2+13, Zie12].

Structures [B05, BKF19, GGM01, GMPZ06, IS17, RAB+14, RC06, Saa03, SSW12, SM18, TW96, WLX+13, YNP+01, ZK19].

Studies [BPP13, BBKK97, DMM+16, RLG98, YTD15, ZD09].

Study [APS12, AHT12, AC05, BM03, BK04, BCR09, CHF09, CGAD95, CHKM13, CFK08, DARG13, DLY17, EP06, FMOS17, G0K0, GLT18, GMSB16, GRT05, Gk05, KB08, KKK17, Kup08, LZ04, OL98, Pie10, PABG11, QPR20, Ros05b, Ste01, WH15, YYWY18].

Studying [EW00].

Sturm [AF15, Bou01, LV10, ZAK15].

Style
Subcube [CG93].
Subdetemrinitns [IMS96]. Subdiffusion [CLAT10, CSZZ20, WZ21b, ZLLT13, ZLLT15]. Subdivision [CWD13, HOY03, KKT19]. Subdivision-Based [KKT19]. Subdomains [CS12]. Subgrid [MP20b]. Subgrid-scale [Lay96]. Subiteration [vBdB05]. Subject [GLL+15, LX14, AE95]. Sublinear [VL10]. Submatrix [YPHH17]. Subproblem [ZS18]. Subproblems [HD15]. Subset [CBCR14, VBA18]. Subset [Gu15, HL18, KdS05, KSU14, LMRS15, LWxY20, Lin16, LWZ13, LR98, Mou20, NG00, PS02, SSM16, SW01, Mou20, NG00, PS02, SSM16, SW01, SS03, Sso16, St97, Vp11, Wal99, WYyz10, XX20, YYS15, vdVY00, We94]. Subspace [BM01a, BKT21, BCL99, CKD13, CCSI98, CPS11, CCA20, CS14, CDW14a, CDW14b, DLY17, DLZ10, EEO01, GY02, GOS12a, Gu15, HL18, KdS05, KGW+20, KSS14, LMR015, LLiX20, Lin16, LWZ13, LR98, Mou20, NG00, PS02, SSM16, SW01, SS03, Sso16, St97, Vp11, Wal99, WYyz10, XX20, YYS15, vdVY00, We94]. Subspace-Based [KGW+20]. Subspaces [BDF08, CKBT16, DFD00, DTR21, DKLZ09, GW17, GT19, Ka95, LZMW20, PdS+06, XZK95]. Substantial [CD15b]. Substructuring [BL04b, Doh03, HS99b, HZ16, KXS18, KR12a, St97, GYB+05, Sni93]. Subsurface [FK97, Sta00]. Subtensor [EGL921]. Subtraction [EVLMW17, WKM+07]. Subvector [HS17]. Successive [GB98, Mit08, WZ03, YJ13]. Suite [SR97]. Sum [AC098, ACC000, OR005, dMHJM00]. Sum-of-Squares [dMHJM00]. Summation [AWW19, And99, BC02, BMH20, BZ15, CWA14, DZ15, DH03, HZ11, HDZ16, McL12, Nie06, N118, NL16, ODN17, PS03, RO008a, RO008b, Rum09, ZY205, ZH09, Hig93]. Summation-By-Parts [BZ15, HZ11, NL16, AW19, DZ15, HDZ16, N118, ODN17]. Sums [BGM09, HMAS17, KW11, PPT11, dBMZ11]. Super [Gos12b, JAY98]. Super-characteristic [Gos12b]. Superalgebraic [BH07]. Superblock [CWC08]. Supercharging [AMT10]. Supercompact [BW00]. Supercomputer [Kor93]. Superconductors [DG99]. Superconvergence [DK98, HXB11, MYZ21, WCHZ14, Yam02, ZN05, ZZ16]. Superconvergent [BFK05, EM99, HZ11, LD03, Pj96, VC00]. Superfast [VXCB16]. SuperGlue [Ti15]. Superior [Yan19]. Superlinear [CDH98, GJS19]. supernodal [NP93a]. Supernodes [JFG15]. Superoptimal [DEC05]. Superparallel [MK93]. Superposition [Gar00]. Supersensitivity [GK00]. supersonic [LL94]. Supervised [DTR21]. Supply [CPR11, FGH+08]. Support [CO06, EZ11, XAW17]. Supported [Pla15]. Surface [AKS05, AHH06, ADN+15, BN98a, BN21, BTGH12, CL18b, CH09a, CFM96, DFS17, DGP10, GPK04, GJK04b, HA08, KCZ15, Kö07, LTC13, LL97, Li03, LCL18, LLZ19, LH19, MG11, MCT+05, MT99, OQR18, RS13, SV08b, SO09, TK13, WkZ15]. Surfaces [Bea20, BB09, BBK06, Bru18, CW13, CW14, CM15, CW16c, CL18c, CDW14a, CDW14b, DPF15, DP07, DGD30, DKS21b, Far01, FJP+11, Gra14, KTB14, KBK+08, LZX17a, LSW17, MR09, NNR19, OX17, PHA18, QZZ19, Ren15, Say15, SKF18, YH17, YH19, Zha18b, Atk94, RN95]. Surfactant [GX20, Yan21]. Surrogate [CBG+19, CDD11, DKW19, LX14, RS13, vdHCD15]. Surrogates [LM14a, YGC96]. SVD [BP97b, CL21, Hoc01, HJ19, NH13, Nov15, QT09, SDNC20, VV94, WS15, WRS17]. SVD-Based [VV94]. SVD-Like [CL21]. Sweep [LY18]. Sweeping [ALZ14, BMR10, GLQ16, LY16, Luc19, PELY13, ZCL+11]. Swelling [WFAP15]. Swimmers [GHK14]. Switched [GPA18]. Switching
[HFL11, KL00b]. **SwitchNet** [KY19b].

**Sylvester** [BDP96, ST16a]. **Symbolic** [GDL07, HS18, MBM16]. **Symbols** [JF16].

**Symm** [CP05]. **Symmetric** [ARMNW10, ADKM03, ARS21, AH04, AKK14, AKT16, AR99, AL99b, ATK12, AK04, ACW21, BGL05, BS05a, BW18, BK11, BK98, BK99, BPR04, BvG15, BB08a, BM01a, BddSM11, BBM11, BGM13, BCF01, BSSW13, BG21, BM95a, BT98, BPR09, BFN17, Bl07b, BCP15, BB09, BPR13, BBD18, BPT19, BS96b, Bre09, BC99, BHP98, BCMM03, BC08, BC99b, BK11, BTW08, BGL06b, BEPW98, BORTP19, CS99, CL18b, CGL13, CSS10, CB98, CGG07, CJH11, CdSG21, CH17, CH18, Cas05, CPPR12, CDF18a, CS96, CSS98, CN99, CBG16, Che98, CRS20, CLB21, CPS11, CDY07b, CBG19, CBDW15, CW12, CUE13, CE16, CDP17, CD06, DM13a, DLY14, DB98, DH01, DFPN07, DB94, DXS18, DS14, DGSW10, DDT16, DHZ21, DLP21, Elm98, Elm00, Ema10].

**Symmetry** [BV19, CSHY16, SvdGP16, XW05].

**Systems** [Ett16, FHFR19, FSvdV98a, FT03, FDE16, FG98, GJLX16, GKS20, GDLS14, GM21, GGOY02, GNL14, GRT05, GRS15, G04, GW98, GG03, GSW17, G05, GPA18, GK010, GV98, Gri94, GPS95, GPSY17, GSW13, GW00, GML21, HR05, HN91, HS06a, Hag00, HTMM15, Har11, HJ07, HSS08, Her08, HS17, HZ10, HP94, HH00, HP21, HG12, HLS98, HECH14, HZ16, HL17, HS21, HSCTP04, JFG10, JZ13, JW05, JWH08, JXX21, Jou94, KGM10, Kas95, KEA97, KLR98, KPK10, KPL13, KS91, KMR01, Kof04, KSV16, KNV16, KK16, KPW17, Lab05, LM00, LV98, LV13, LW19a, LNP07, LSU11, Lee09, LM15, LS16b, LPR02, LN05, LPR98, LW16, LSN17, LXX20, LN03, LXXH16, LMWW04, LYN11, MFJ19, MM19, MB02, MRT00, MPW18, MSM14, Meu11, MW13, MC05, MO21].

**Systematic** [HTH16, SvdGP16, XW05].

**Systems** [AH18, AM04, AKK14, AH17, ADP20, AG16, AH09, AKPR08, AKT16, AR99, AL99b, ATK12, AK04, ACW21, BGL05, BS05a, BW18, BK11, BK98, BK99, BPR04, BvG15, BB08a, BM01a, BddSM11, BBM11, BGM13, BCF01, BSSW13, BG21, BM95a, BT98, BPR09, BFN17, Bl07b, BCP15, BB09, BPR13, BBD18, BPT19, BS96b, Bre09, BC99, BHP98, BCMM03, BC08, BC99b, BK11, BTW08, BGL06b, BEPW98, BORTP19, CS99, CL18b, CGL13, CSS10, CB98, CGG07, CJH11, CdSG21, CH17, CH18, Cas05, CPPR12, CDF18a, CS96, CSS98, CN99, CBG16, Che98, CRS20, CLB21, CPS11, CDY07b, CBG19, CBDW15, CW12, CUE13, CE16, CDP17, CD06, DM13a, DLY14, DB98, DH01, DFPN07, DB94, DXS18, DS14, DGSW10, DDT16, DHZ21, DLP21, Elm98, Elm00, Ema10].
NP08, NSJ03, NFFP18, NM13, OD12, PNW16, PdSM+06, PW15, PM16, PVK16, PVCh17, PW98, Pet99a, PH16, PS01, PN19, QCJX21, Rah96, RG07, Rei21, RVA17, RSW10, RS920, RT99, RKW20, SZ99, SS99, SBK13, ST08, ST17a, ST14b, SHP07, SE11, SG95, Sma04, Smi97, SG04, SyG08, Soo16, SC98, Stu94, SO10, Sun95, Tczc19, TTSm08, TT07, Ton94, Tor12, TS14, VC00, VM13, VK13, VSS14, VTD12, WZ21a, WLX+13, WTWB09, WSH14, WG19, WQX20, XX17, Xu04, Yan94, Ydf97, Yp98, Ywl17, Zha97, dDBV14, dSL05, dSO21, AS93, AM95, AP93, BHP94, CGP93, CN93, CT94, CGS+94, CC96, CW97, CMV97, Fre93, Gre93, JS93, Yav93]. systolic [BPT93].


Temperature [Don06, RJLW20, SMZ18, YCY19]. Tempered [BN98a, LL97, MCT+05, SO09]. Tensor [ACG20, BS03, BS07, BG14, BK18, BKK+21, Beu05, BAS09, BEKM16, BHL+20, BKS16b, BS99b, BSL02, CQZ17, De 12a, DM13b, DH16, DKO12, DP19, DKK21, DF21, EGS21, FF05, FEM08, FJHM19, GNL14, Gos12a, dMGF17, GKK15, HJ18a, HRS12, HvdG18, JLMR17, KOB20, KKT13, KKS13, KK09, KKF11, KS11, Kor15, KSU14, KSV16, LT21, LS00, MMRN15, MSL13, Mat18, MBM+16, OT11, OSe11, PK19, RO15a, Rak21, RDB16, SDH21, Ste16, VMV15, VS17, VDD19, WSX17, ZCK12].

Tensor-Structured [GRL14, KKT13, KKS13, KKF11, KS11]. Tensor-Train [BEKM16, OSe11, VS17].

Tensors [ACG20, BK07, BK16, CCQ16, DGP18, GU17, GMS21, KU18, KP17, SL10, SLvdG14, ZBdAF20]. Tent [GSW17].

Term [AGH00, FN94, Fu21, GvdV17, HJ18a, Kla98b, Kla98c, RG98, Wan07a, ZTM+16]. Termination [FL08, KMT98]. Terms [BBK21, BKK+21, CG13, HR99a, JW05, Nak98, Win06, EW96]. Tessellation [BGL06b]. Tessellation-Based [BGL06b]. Tessellations [DGJ03, DW05b, GCN21].

Test [CPT05, Han95, JL03, JL05a, Lin06, LW03]. Testing [WRB+15]. Tests [LSW02].

Tether [TP09]. Tetrahedra [AJ21, Ber00b, DK98, PC98]. Tetrahedral [AMP00, Ber98b, BH16, CC11, FKW13, GMvdV18, GMvdV19, GR05b, HT00, HJ12, LJ95]. Tetrahedralization [Wal13].
Tetrahedron [Ong94]. Textbook [BSA13]. Texture [BEG+08]. th [PP12b]. Their [CH02, DW05b, GK03, GPS12, LS94, LL00, MC94, PP13, Sch18, ST00, CC96, DG95, DG99, GM00b, SHP07, WTS94]. Themes [DJM16, KY14]. Theorems [ET01, LV98]. Theoretic [BGMW17]. Theoretical [CGAD95, DMM19, Wan07a, Ber97]. Theories [HSF07]. Theory [AG18, BGL08, BEG+08, BM10a, BO17, CXY10, CFM96, CDW14a, CDW14b, DKPS17, FGP14b, FCF14, HJN17, HDZ16, KKP14, KY19a, LW12b, LY13, NKLW94, Rub12, RCLU08, SS03, TYZ19, UWY+15, VO19, WL13, dSL05, CW93, ED95]. Theory-Based [KKP14]. Therapy [CDM+13]. There [GL21]. Thermal [BST08, DSB99, HM18, MR04, PKR+13, Rav02, WFG+20]. Thermally [IR98]. Thermodynamic [BHV05]. Thermodynamically [GZW20]. Thermodynamics [YS16]. Thermostats [LS16b]. Thick [Lee10a, LXY+16, MvdM21, SS03, WXS19, ZVF18]. Thick-Restart [LXY+16, WXS19]. Thin [AA00, BKFG19, JZL16a, KWW13, LS94, Lee10a, LS12b, SM18, ZWWZ21]. Thin-Walled [BKFG19]. Third [ABMR11, AS06, BBMZ20, Cao07, KL00a, LY14, SC02]. Third-Order [BBMZ20, KL00a]. Thomas [Ain07]. Thousands [BT03b]. Three [AILP07, A002, A12, ASS16, BBSW94, BBKT15, BGP121, Beu05, BZ11, BC07, BBM03, BKS13, BK20, BCM15b, CH18, CHP20, CL+20, CD20, CJ95, CM00b, DK03, EZ11, EdDP09, FK00b, GJ08, GKC13, GGL+98, GGLT00, GB06b, GV98, GM96, HHS15, HM98, HT17, HRT03, HKKR19, HKLW21, HRT13, HC98, HS08, Hn95, Hun96, HGPM14, Joc95, KL10, KR06, KKR16, KS15a, KWG+20, LCA08, Leth15, Lem16, LY16, LCY+20, MV09, MLL13, MZ94, MN00, Moo00, NKLW94, NMAB11, Ong97, PV08, PWZ10, Pek12, Pet99b, PP13, PM15, Rak21, RR98, EG98, RWWK15, RDP08, Sch02, SWB16, Sha12, SWT00, Tsyr99, Tu07, Ush01, WO98, Wen10, WO01, WZ15, XW05, YCY19, ZW03, ZJB20, Ca93, ED95, HZXC16, Smi93, SS93b]. Three-Dimensional [AILP07, A12, ASS16, BBSW94, BK20, CJ95, CM00b, EdDP09, GJ08, GKC13, GGL+98, GB06b, GV98, HHS15, HM98, HRT03, HRT13, HC98, HSW08, Hn95, Hn96, Joc95, KL10, KR06, KS15a, KWG+20, LCA08, Lem16, LY16, MV09, MZ94, MN00, NKLW94, NMAB11, Pet99b, PP13, PM15, Rak21, RDP08, Sch02, SWB16, Tsyr99, Ush01, WO98, XW05, HZXC16, ED95]. three-factorated [SS93b]. Three-Field [BBKT15, RWWK15, BGP121]. Three-Grid [WO01]. Three-Level [Tu07]. Three-Operator [BZ21]. Three-Precision [CZP20]. Three-Temperature [YCY19]. Three-Term [RG98]. Threshold [ACD18, DFL20, MOKS12]. Threshold-based [MOKS12]. Thresholding [dMGF17, TW13a, ZSL21]. Through-Casing [PDTVM08]. TIGER [Wal13]. Tight [DS20]. Tikhonov [CR04, CP15b, FM99, GN14, GF18, IJT11, KHE07, LFR13, O’L01, TY08]. Tile [HLD12]. Tiling [GVP06, ZAD+16]. Tilted [BG11]. Time [AM17, An16, AA02, AT12, AM05, BO17, BM03, BS05c, BB10, BLR99, BB18, BF13, BBKS20, BS15a, BHNP07, BCL+21, BCM11, BFS16, BZ15, BN13, BC07, BB11, BV16, BCCX21, BDG20, BT19, CGGGS15, CB98, CD17, CZK15b, CC14a, CEJ+10, CBHB19, CFR05, CGAD95, CCM08, CGK13, CCG+14, CFKM18, CHL06, CWZ07, CC19, CCA20, CIZ18, CC15, CS10b, CDGT01, CE17, DM13a, DD13, DJ08, DL20a, DMA16, DG09, DKPS17, DEP11, DSZ13, DMD+12, DB07, DGvdZ18, EDGL12, EJL03, FFK+14,
FMOS17, FTY15, FDE+06, GV07a, GJSZ13, GN16, GHR19, GDS14, GASS98, GR17, GvdV17, GC16a, Gob08, GM19a, GKR16, GGS08, GLOR16, GV09, GM15b, GM19b, GZ19, GC17b, GML+21, GW04b, GM04, HS05a, HW14a, HJ18b, HR98a, HP20, HT16, HSN+20, HLNS19. Time
[HL19, HCHS13, Hor10, HX21, HDF+19, HY14, HLY13, ISS19, Jah04, JY96, JILGZ20, JSZ13, JZ00, KM97, KT05, KGGS10, KR11, KLN20, KLB19, KM19, KSI14, KRS21, KK16, KTSB19, KL00b, LZ21a, LSTY21, LMM18, LDS11, Li10, LD16, LWZ17, LSC18, LSYY21, IITZ21, LLI08, LM14c, LH00, LIX16b, LH19, Luo19, LX16c, MCL19, MGB18, MO00, ML11, MZ94, MN18, MSV00, MNZ15, NT18, NS19, Nor07, NL16, ODN17, PNW16, PR01, PS10a, PKR+13, Pat97, PHW19, PGW17, PL12, PvdVvG17, PS19b, PP12b, PMSB12, QZT11, QSO3, RMR15, RP18, Rav05, RL10, RZ03, RMC12, RSS20, RW01, RMD08, RSS08, RWX07, STCK21, SYZO15, SWK18, SE11, SSR21, SNB08, ST01, SB15, SSN19, SW10b, TW05, TYZ19, TT20, Tlce18, TPW09, TH17, WZ21a, WL20, WZZ1b, XCS16, YTL111, YBM+18]. Time
[YWGW21, ZK14a, ZLLT13, ZKL14c, ZLLT15, ZC10, ZKG20, Zin14, vdVXX19, BC09a, CH012, CMM96, CCG14b, EKSW19, FM13b, GSB98a, GOV06, HP14, HV95, Kye12, LK93, Le151, SV08a, WGT14, Yan14, Yu01, ZLTA15, MMT15]. Time-
Topological [BRZ14, BB09, KLST06]. Topology [BK20, CWD13, GHHK15, IS17, KLT16, KM16, PFS21, VHSP20, WB08a].
Tori [DB94, HKM97]. Toroidal [SLO13]. Torso [WiOH08]. Torus [GPS12, HW94]. Torus-Wrap [HW94]. Total [BKMRB21, CGM99, CMM00, CT03, CC03, CLNZ16, DF03, FGOH97, FN06, GY05, GY09, HS06d, LFB13, FN17, MF06, NWY10, RKW20, V096, WBFA09, ZW13].
Total-variation [NWY10]. Tournament [GCD18]. Trace [Che16, GSO17, KNV16, LS20, OX17, SMZ18, SLO13]. Tracer [BBG19]. Traces [ZND18]. Tracer [BBG19]. Traces [ZND18]. Tracer [BBG19]. Traces [ZND18]. Tracer [BBG19]. Traces [ZND18]. Transcription [PR09]. Transformation [CP03b, DK11, HC08, KR06, YH19, Yun03, YK03]. Transformations [AD07, ACD10a, ACD10b, CD06, GGOY02, GL15, HSU21, ISW18, Joe95, MHS08, Goe97, Joe93]. Transformed [TT06, UE12, WE17, WE20]. Transforms [BBB13, BV98, CPG20, Di97, FT03, IBM1, LQ19, Nak98, NL99, Pek12, PP13, TW09, WE20, BS94, DR93b, Heg95]. Transient [BG07, BP13b, FHFR13, MST15, SM07]. Transistors [HJ04, JP14]. Transition [CCER12, Gar94, KKS08, ZD16]. Transitions [BG11, BGH19, CG96]. Translates [PPT11]. Translation [ARM19, Gri19, GD03, ED95]. Translation-Invariant [ARM19]. Transmission [BLS14, HHL15, JLY08, LQH21, MRS04, MS12, MV21, PvdVvG17, QX08, RL10, WH13, WX17, YBLH16]. Transonic [CGK18, SS10a]. Transparent [Coa12, JK21, RSSZ08]. Transport [AGR20a, AHT12, AH06, ACCP13, BH14a, BGL08, BB09, BBT19, BP13b, BBG19, BLM1, BL08, BSU19, C18b, CC21, CMM17, CLTX15, DML05, DJP00, EPS08, EMS820, ES18b, FB21, FHL13, Fro12, GJ08, GC16b, GC17b, HH17, HKF13, HSMT20, HRT13, HJP03, HJP04, HJS18, JLP18, JP14, Kan03a, KR14, KGM08, KGM11, KMS15, KLLY20, KP12b, KW12, KT17, LFH19, Lay06, LG20, Lail0a, Lee12, LLL12, LYLC21, MMM94, MCB18, OL98, Peh20a, PL21, PMR16, PBT15, RSS18, Ros06b, RCL08, SG11, Sch19, SH20, TWK18, VY09, WZET13, YS16, ZCQ21, MMM95, MMMY96, PCDB96]. Transport-Dominated [Peh20a]. Transport-Reaction [HKF13]. Transportation [BCC15, PBJ96, SM15]. Transports [Re21]. Transpose [CCC17, Fre93]. transpose-free [Fre93].
Two-Body [MMN00, SS93b]. Two-by-Two [BGL06a]. Two-Dimensional [ABC16, BT06, BBKK97, BMMR20, BLMS21, CHRR99, tVC¸AU10, C09, CST+13, DD00, DF20, DL19, DF99, DHZZ18, FCC10, GPV06, HR99c, ISW18, JK08, JP01, KJ06, KPW17, LL98a, Le 09, LP08, LB15, Liu20, Mac98, MRI21, MABO07, MM19, MB13, NS06, PNP13, RRR03, RO12, SM94, TC99, WXK04, WDE99, WL11, WMC12, WB12, WG18, WLLZ18, WHL18, WMM19, WWM3, WMSG09, WCHZ14, WGF08, WZ19, XBC96, Xu94, Yam02, YT11, YYY16, Yu01, ZSY21, ZHY21, ZSpH14, aKT18, Cai93, CSS93a, EOD93, EG93, Elt96, SRCG93. Two-Electron [KK13]. Two-Fluid [EF05, LM15, MEF90]. Two-Ghost [AG17b, CJ05a, FL97, Fer98, LZZ11b, MY18, Xu94, Atoa94, VBT09]. Two-Layer [AK09, FV06, KP09b]. Two-Legacy [ARS21, BC10, Bre00, CG03, DGCG07, CGL01, DSO0, DKPS17, DV20, EPV94, Fai03, HKR16, HL20, HHR03, KKV13, KKP14, MB17, WHL18, WMM3, WZ19, NV06, Ca13]. Two-Material [Sha21a]. Two-Parameter [GGKM07]. Two-Phase [AH12, AHT17, BCT05, BH11, BBKW19, CLDS19, CL97, CDB13, FL08, KSM18, KS15b, LD12, LR12, LCK21, Q514, SY10a, SY14, SO09, WFG08, YYY16, ZHY21, LV94]. Two-Point [BM01b, LG97, LR20a, VC00]. Two-Regime [FCZE14]. Two-Scale [CV15, NN19, SSW12, SSJB17, VHSP20, VMG09, CV12]. Two-Side [ELW20]. Two-Sided [BB15b, LMT18, WMHK19]. Two-Sphere [WL11]. Two-Stage [LD16]. Two-Step [Bar99, HLZ13, KW15]. Two-Stream [GV16]. Two-Term [FN94]. Two-Way [KCU15]. Type [AILP07, BKK+21, CZ10, CLLL20, CRS20, CMM95, DW97a, DLY14, DHZ+21, EL01, GO09, GW00, GML+21, Gur04, HJN17, HS06d, Hoc01, HXX18, HX11, HLM16, HJ19, ISS19, JW05, KJW04, Kus97, LD16, Lu95, MK00, MR01, PE00, QS03, RG98, TS11, TL12, WWY11, WRSZ18, YP08, Zha97, ZZW14, ZMS21, ZZY20, ZNX14, ZZ17, A093, DSC05, GPHHAP18, MV00, MO05, NvdP00, Tan93, AM17]. Types [GYZ11].
Underdetermined [AHDK14, JP08, MSM14, SX11].
UnderSampled [DG17a, CG10].
Understanding [WTP21]. Underwater [TKW08], Unfitted [BMV18, BMNV21, BCDE21, LY20, LGR20, ZVF18].


Uniprocessor [NP93b]. Uniqueness [FLM+05]. Unit [GMSB16]. Units [BBFJ16, BCFJ19, KMSM14, KHW+14, Nov15, Red99, Sch10, TV93].


Unsteager [HRT13, Ros06b, TKK16]. Unsymmetric [GBDD10, HK00, HvdG96, Nik00]. up-BPT93]. Update [CWY17, HCRT13, LXh20, MT19a, vNLB04, Anj93]. Updates [BDdsM11, BBM11, KMR19, LXh20, MHL+15, PW15, PXYY16, YPHH17].


Using [AG10, ABM+13, AKW17, AP14, AMP00, ALZ14, ACH21, ADLW19, BBSV10, Bar05, BSS09, BKK+21, BBC+16, BNP15, BRR04, BB15c, Bja19, BV00, BBT11, BPH94, BT21, BRR08, BKS98, BW09, BDW11, BJW18b, BT19, CLW13, CD19, CWC08, CCC17, CD15a, CT03, CFSZ08, Che13, CWG10, DNP+04, DGK+16, GBS19, JFG15, JvGSV13, Man99, OT09, RZ03, SO15, SSVW17, ZLTT13, HO93]. Used [NNH99, SMZ18]. User [MT19a].

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