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, VB07].
1.5 [KAU18]. 2
[ABST13, ACD+08b, BWV15, BLS14, BH97,
B109, BK14, CMV97, CD01, KL15, KW07,
KP06a, Kra09, KnV+16, Lam97, LRP07,
LYL+11, LW03, LNS15, MT97a, NN03,
Sma01, ZNZ16, ZND18, vVKA11]. 2, 3, 4
[Goe97]. 3
[BIA99, BIA05, CP13, CWL+14, CCC18,
CDB13, CMSS06, CH11, Don06, GH13,
GD03, HA01, KC16, Kra09, LS12b, LFJS14,
Min02, PS10b, PWGW12, PELY13, PRSS11,
RY03, RL18, RH06, Sch05, ZCW10]. 5
[Goe97], 6 [RY03]. 2 [MW13]. 3 [BOF16]. A
[APSG14, APSG16]. A⁻¹ [ADLR15]. α
[BFM+04, BMM+10, PR09]. B
[BGK15, KPP+16]. H(div) [KLL+16].
CHeart [LCR+16], c⁻¹A⁻¹b [ST11]. C¹
[LR99, PMH+16]. C∞ [Pla15]. D [AS18], ℓ
[SvG10a], ℓ¹ [CJK10], ℓ₀ [APSG14], ℓ₁
[GNZ17, NNT13, CJY16, GLN09, YZ11],
ℓ₁−2 [YLHX15], ℓ₁−ℓ₂ [YSX17], ℓ₂
[CXY10], ℓₚ [CXY10, LMRS15], ℓₚ
[LMRS15]. η [CB98], f(A)b [CAS11]. H
[DDMO05, Ain96, BH12, CDB13, EOD93,
GC97, HTB+05]. H(curl) [LO11]. H(div)
[Tal15, KV12b, LMM17, WWY09]. H(curl)
[RKL09]. H(div) [RKL09, WWY11]. H¹
[DTYY18, JK11]. H(curl) [JK11], H⁻¹/C/E₁
[RH09]. HP [Gia18, AGH13, EPR10,
FHL13, HXB13, PRS12, CDG17, DEV16, GL08, HHM17, PDTVM08. I [May08]. ILU
[ACD18, LSC03, OKLS15]. j [JF16, RY03]. K [ROO08b, Gre03, Joe93]. L [HO93]. l = 2
[FNNB05]. L1 [LWZ17]. L1 [DGP10, SWU16]. L2 [EAS11, MNvST13].
L2(\mathcal{H}1) [Pic10]. L1
[RSNNR17, WBS+17, FNNB05, YG15]. L2
[HRT10]. Lp [DF10]. LDLT [ADG07]. LU
[DGHL12, LSS03, MG07, VM13]. M
[HW99, Vir07, AMN15, BK17]. R2 [DW15b].
R \mathcal{R} [AB08b, HSD99, PL12]. R \mathcal{P} [CBN02]. \mathcal{H}
[DHP17]. \mathcal{H} \mathcal{E} [Bar09]. \mathcal{H} \mathcal{E} [DGB15a]. \mathcal{H} \mathcal{E}
[BM12]. \mathcal{H} \mathcal{E} [BM12]. \mathcal{O}(\infty) [BMF12]. \mathcal{O}(N)
[BCK16]. M \mathcal{R}3 [WL13]. N
[Alu96, BME93, KL06b, BOF16, BEM94]. N \log_2 N [FMP06]. O(2) [WAS94]. O(N)
[GM14a, OKF14]. P
[CK03, Ain96, B00, BBR08, CG99, Cas97, 
CS16, FTY15, GC97, HGK97, JP11, MSL13, 
PP12b, PP12c, TB99a, ZK96]. p + 1
[vNBL04]. P_{1/2+}(x) [GST09]. P_{1NC}
[Le 05]. P_1 [Kan03a, Le 05, WWM03]. P_N
[HM10b]. Q [MMRN15]. qd [von97]. QR
[But13, DGHL12, DG17b, HvdG96, 
MOHvdG17, YTD15, Nag93, Wat94, VDO10].
[r] [EOD93]. r^{-\lambda} [CJ05b]. \mathcal{R}^{3} [Atk94]. \rho
[CFH+03]. s [Sv08, Son12]. S_N 
[KR14, Lee10a, Lee12, Lee10b]. T [LZ13b]. \tau
[Ber97]. \Theta [WL08, TSK09]. TV [CJ10]. V
[BGP94, Kwa99]. \varepsilon [BRZ14]. W
[GPHHPR18]. w = f(\mathcal{A})v [TE07].
X + A^T X^{-1} A = Q [GL10]. \text{xx}
[CL12, CL13].

- Adaptation [DEV16]. - Adaptive
[CD13, FT15, HHM17, EOD93, Gia18].
- Algorithm [VD10, von97]. - Algorithms
[BRZ14]. - Bit [HJLZ18]. - Body
[KL06b, Alu96, BME93, BEM94, BOF16].
- box [BH12]. - Conforming
[DMM06, JK11, DTY18]. - curve [HO93].
- cycle [BGP94, Kwa99]. - D [BH97, BIA05, 
CCC18, GD03, KP06a, LS12b, RH06].
- Dimensional [RF10, Joe93]. - estimator
[HO99]. - extrapolation [Ber97].
- Factorization [VM13]. - Finite
[GL08, PDTVM08]. - Fold [ROO08b].
- Galerkin [LWZ17]. - Independent
[HTB+05]. - Lagrange
[BL14, KL15, LS15]. - Laplace [CK03].
- Laplacian [B00, CS16]. - Level [KL15].
- Matching [KPP+16]. - Matrices
[BM12, Bör09, Vir07, May08]. - Matrix
[DHP17]. - Method [PR09]. - Methods
[TSK09, BGK15, WL08, GPHHPR18].
- Minimization [YG15, DGP10]. - Norm
[BRR08]. - Optimal
[AP14, APS16, AS18]. - Problems
[YZ11]. - Projection [EAS11]. - Radius
- Regularized [CJ16]. - Sparsification
[AP14]. - Splines [LZ13b]. - step
[AMN15]. - symmetry [WAS94]. - Tensor
[MMRN15]. - TV [GLN09, SWU16].
- Version
[AGH13, CDG17, CG99, Cas97, ZK96].

1 [EO15]. 14 [BEM94].
2 [EO16a]. 2000 [vdV01, vdVDE+02]. 2002
[vdVDE+03]. 2004 [Vas05]. 2008 [Tum10].
[Ben17].
3 [Bur97, NKTY08]. 3-D [Bur97]. 3D
[vLH14, Sar99].
4th [MCV17]. 4th-Order [MCV17].
5/C [BP97b]. 500K [ROM18]. 5E
[BP97b].
60th [PS97].
754 [MRV06].
AAA [NST18]. Abel [HFL+16]. Ablation [CBK18]. Abscissa [MG12, Ros15]. Absolute [BK18]. Absorbing [ABK11, BHG14, FJ99, HY14]. Absorption [LP96, MMMY96]. Abstract [Del14]. Accelerated [BY93, CW17, CKLL16, CHJ16, CML+18b, DMSW10, EG01, FMYT16, FSvdV98a, FP14, KK99, MR07, NKLW94, NAC+15, NFFP18, PS10b, RS11, VTD12, ZCZ04, ZW16, EB96, LK93, MW13, GHS+15]. Accelerating [BRZ14, CH18, CKBT16, DCP11, HOW17, IT09a, LY13, MG09, NKTY08, ADRS95]. Acceleration [BGOD08, BER17, CC03, Gar05, HHSW11, HBS00, Kau17, LSV13, OW00, RWA95, SO15, TEE+17, VN03]. Accessible [KMA+12]. Accumulation [RW97]. Accuracy [ALRT17, AIV98, BP97b, BCCI98, BRK16, CGAD95, CLAT10, CK94, Cor98, DMPV08, DS89b, DS97, Dor10, JZ00, LS09, LB06, MR02, MKRK13, NN03, PQOB14, RX17, RGOY10, RF07, Sch96, SZZ07, Sze00, ZK15, ZL17, ZL17, ZL96, Zni00, vHBTC12, vSRV11, Hig03]. Accuracy-Conserving [MKRK13, vSRV11]. Accurate [AdWR17, ABMR11, AO07, ABIGG16, AP12, BS18a, BWV15, BM18, BR09, CH17, Che05, CCC18, DH03, Dm97, DKM14b, EE14, GBCT10, GST12, HG02, HT13a, HLW00, Hen06, JL11, JF16, Kout09, KP05, KM12, KR12b, Kye12, LG09, LD16, LFBO08, Lnu15, MC10, Nit99, OR05, PGR+13, ROO08a, ROO08b, Run09, SL09a, SC02, TB99a, VPP05, WL97, WM05, WRS17, ZCL+11, ZJC12, ZCP06, Zin14, ZPE12, vWV89]. Accurately [Che16, WS15]. Achieving [BA13, Ros05a]. Acoustic [BC06, BS06b, FKT10, Kö807, Mal07, MZ94, RZ03, SWB16, Sni97, Str99, YBM+18]. Acoustics [BH14, Nat98]. Across [CVK15, KM18, TLLK09, Lay06, LP06]. Action [AMH11, AM18, Ber98a, HK17, KR17, RX18]. Active [CDW14a, CDW14b, CKBT16, HSW08, KP11, PST15, YY16, ZJJ14]. Active-Set [PST15, YY16]. Active-Set-Like [KP11]. Activity [RC06]. Actuator [ABD+17]. Acyclic [GTMP07, MZW09]. Adaptation [AFMP15, Che94, DP15, DF10, DEV16, Hua05, RH06, WA09, WH15]. Adapted [AMP00, CAA03, DZ12, GHK14, Lab05, RSH11]. Adapting [HH18]. Adaptation [MP08]. Adaptive [AB02, AGH10, AHK+17, AMM+11, AD18a, ABIG16, AW15, AGL13, AD06, AB100, BB13, BB17, BLH02, BG14, Ban08a, BH00a, BL04a, BO07, BM17a, BBC+01, Bas98, BC06, BBSW94, BBC+16, BC09a, BK06, BS16a, BZ12, BB15c, BB05, Bör07, BFM+04, BM+05, BMM+10, BM11, BTGH12, BWG11, BHW16, CHR99, CS99, CP03a, CD02, CW07, CCC10, CKLL16, CKV13, CDB13, CHH10, CM13, CVE13, DMS01, DM+08, DM13b, DDGS16, DHJW08, DKKP14, DLZ10, DZ08, DM+12, DGvdZ18, ES17, EV13, EHW00, EM09, FUMB18, FTY15, FL18, FL02, FNTB18, FKK+14, GT98, Gia18, GB06a, GG08, GC17b, GG10, HMM08, HS05a, HMM17, HBB+16, HH02, HR99a, Ho95, HEGH14, HJP04, HS01a, HB97, HS94, LJ08, JS93, Jah10, JT10b, Jam98, JF11, JK11, JJJ12, JP97, Jnt04, JGZ06]. Adaptive [KK13, Kau17, Kau18, KGGS10, KV05, KKR16, KRT16, KY05, KHRvBW13, Kuc12, KPP07, LG97, LMPQ03, LNP15, LS16b, LM14a, LJJ08, LCL18, LKK18, Liv15, LT14, Log03a, Log03b, LFLS08, LK04, LR98, Mac98, MS13, MH17, MV09, MK08, MRW15, Moo00, MTV16, NKLW94, NJ14, OPR06,
Adaptive-Krylov \[\textit{LT14}\].
Adaptively \[\textit{BCGR98, HG00, Lee14, RKLN07, TT06}\].
Adaptivity \[\textit{BP13b, CGKM16, CEJ+10, CPB13, CM99, FDE+06, Har08, KMW15, MCB18, MHS98, SV08a, WvdZSvB18, Yan18, vdZvBdB10a, vdZvBdB10b}\]. add \[\textit{Goe97}\].
Additive \[\textit{AP99, BV16, Bre00, CS99, CL11, CGG07, GH99, GC97, HJN17, HMR09, Jay98, Kra12, KLL+16, LSC18, LKBJ18, NT18, PS08, SCGT07, Vil14, Wan12, WGT14}\].
Adequate \[\textit{FH06}\].
ADER \[\textit{AGI10, TM14}\].
ADI \[\textit{DMML05, TV98b, ZzSpH14}\].
ADI-Like \[\textit{DMML05}\].
Adiabatic \[\textit{Jah04}\].
Adjacencies \[\textit{SRI+18}\].
Adjoint \[\textit{ATK12, AHHR16, Bou01, CLPS03, CP04, CEJ+10, CSW14, FHFR13, FR10, HTMM15, Sch05, SU15, TW13b, WLE+00, WMI09, ZS14, Sta97}\]. Adjoint-Based \[\textit{ATK12, CSW14, SU15}\].
Adjoints \[\textit{HM10a}\].
Adjusted \[\textit{CHW17a, CHW17b}\].
Adjusting \[\textit{Ste02}\].
Adjustment \[\textit{CLP08}\].
ADM \[\textit{CE17}\].
Admitting \[\textit{DMR17}\].
Adsorption \[\textit{BN93b}\].
Advantage \[\textit{MM98}\].
Advantages \[\textit{AR99, KB08}\].
Advection \[\textit{ADR14, ALLK15, AHH12, BSSM16, GH907, GGS08, KG14, LSW13, MRFV18, MS98, NN03, PDH09, PH13, SBP04, TZ18, TM14, WXX04, WDE+99, WL01, YVB98, ZK14a, Zbi11, ZJC12, ZRTK12, ZTM+16, PCDB96, FW12}\].
Advection-Diffusion \[\textit{ADR14, AHH12, GGS08, LSV13, WXX04, WDE+99, ZJC12, ZTM+16}\].
Advection-Diffusion-Reaction \[\textit{GH07, PDH09, SBP04, TM14, ZRTK12}\].
Advection-Dispersion \[\textit{ALLK15}\].
advection-dominated \[\textit{PCDB96}\].
Advection-Reverse \[\textit{WL01}\].
Advevtive \[\textit{XCS16}\].
Advevtive-Spectral-Mixed \[\textit{XCS16}\].
Aeroacoustic \[\textit{Dor10, RA05}\].
Aerodynamic \[\textit{Har08, HS06b, Haz08a, Haz08b}\].
Aerodynamics \[\textit{Tsy99}\].
Aerodynamic \[\textit{KA95, Kor93}\]. after \[\textit{GB08}\].
Age \[\textit{BF13}\].
Agglomeration \[\textit{JV01}\].
Aggregation \[\textit{BMF+04, BMM+10, CM09, Cho05, DMM+08, DMSW10, DMM+10a, FKK+14, GaP08, GV16, JKKM01, KW10b, NN08, NN17, Not12, PoH09, ST08, TY11, TY15, DSB6\].
Aggregation-Based \[\textit{FFK+14, JKKM01, MN08, Not12}\].
aggregation-disaggregation \[\textit{DSN6}\].
Aided \[\textit{FGN93}\].
Airfoil \[\textit{Yu95}\].
Aitken \[\textit{BGOD08}\].
Aitken-Like \[\textit{BGOD08}\].
ALE \[\textit{ADK+18}\].
Algebra \[\textit{KM18, PSA99, RTR+16, LJ93}\].
Algebraic \[\textit{AC05, AS94, AP99, BQQ08, BGL08, BSH16, BS02, BQF+15, BDO12, BFG+16, BGF+09, BHST08, BG09, BBB+11, BB03, BBC07, BF10, BK14, BCK+18, BCF+00, BFM+05, BTB05, BHP98, BK11, BEM17, CG95, CLPS03, CGL01, CC02, CH02, CS11, ICCVKEV17, CW03, CFH+00, CKK03, DMM04, DMM+10b, De 12b, DM13b, Der08, Doh07, Elm98, Elm00, EN09, FS14, Gar97, GB98, GOS03, GPS95, GW00, HKR02, HR05, HTMM15, HMM+13, HvdG96, HTB+05, JSV10, KK13, KY03, Kn01, Kra08, KMRW97, LO11, LB12, Liv15, MO08, MOSS17, MV94, MB00, Mis01, NN12, NN14, NAC+15, Not12, Not17, Ols07, OST11, OT11, PRM97, PBV18, Pul08, RX17, RMB00, Sch05, Sch09, SS10a, SH14, TPT+16, VV13, Vir07, WHXC13, WMSG09, WE06, YGB+05, Zas95, BHP94, HTW+12, Lam97, MT97a\]. algebraic \[\textit{MS93a}\].
Algebraical \[\textit{WB99}\].
Algorithm
[AKA13a, AKK14, AM18, ALLK15, AFK15, And99, Ash95, AHHR16, BB17, BS99a, BS02, BK98, BK99, BS05b, BS98, BCF01, BG17a, BG17b, BI00, BC09a, BK06, BR05b, BRR18, Boz97, BVW03, BDR18, BLNZ95, BG17a, BG17b, BI00, BC09a, BK06, BR05b, BRR18, Boz09, BZ97, BVW03, Bru15, BDR18, BLNZ95, CZ10, CD15a, CMS94, CC08, CC10, CP03b, CDM+13, CHO12, CP15b, CRT11, CWD13, CSW10, DHN17, De 12a, DM13b, DZ12, DP07, DDF00, DPV05, DTV13, DGLW16, EW00, EBSS+11, Ett16, FL18, FS11, FP07, FJP99, GN16, GH07, GH15b, GVP06, Gar97, GAMV13, GV13, GL03, GLR07, GM13, GS05, GKK10, GMPZ06, GLN09, GrM10, HJN17, HLD12, HT14a, HO18, HMST11, HHMS15, HJ07, HHSW11, HKO99, HL95, HvdG96, HWD02, HS06d, HOW17, HH16, HV95, HR98b, HS01b, HHL15, HMC16, HMPG14, IJ08, JK07, JK15, JN10].

Algorithm

[JM94, Kas95, KV12a, KHRvBW13, KHRvBW14, LV98, LRSV11, LCN14, LLS13, LT09, LHN06, LZ99a, LZ99b, LGP14, LFJS14, LXV+16, LYL+11, Lin16, wLxY00, LB06, Liv08, Liv15, LWK+16, Lr98, Lxy11, MG07, MG09, MG11, MMM+94, MK00, MBGV16, MV16, MN11, NST18, NK15, NGX14, NCT99, Nov15, Oet99, OKF14, PKR+13, Par17, PGLD06, PBS+06, Pet99a, PDMY14, QDKW18, Rav05, RC06, RNV17, RGOY10, Ruh98, RCL018, SYEG00, SBK18, SX17, Sp16, SV08b, SV11, Str00a, SF99, SW10b, TN16, TZ18, TD09, WD10, VMG09, Wal14, WC00, WMI09, Wan13, WLLZ18, WMGS09, WYGZ10, WL13, WJ12, WC17, Wu18, XK08, XXY05, XAW17, YMW07, YYZ09, YCC10, Yin09, You94, ZZ18, ZY05, dMHJMO0, von07, Ahl96, BZ93, BPT93, BDP96, CGS+94, DS93, EB96, FGN93, Fre93, Kor93, Lan93, LV94, LL93].

Algorithmic

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

Algorithms

[AB08a, AdVC00, Ain14, AMH12, Amhr15, ACD95, BCGR98, BDS98, Ban10, BH00a, Bar00, BHT09, BM05, BF95, BFK03, Bi99, BB15c, BT97, BVCG+10, BM95b, BRZ14, BMV11, BWG11, CGK+98, CK02, CJH11, CGS02, CWCO8, CCSS03, CH02, CKY98, CC12a, CD15b, CD01, CVYK15, CWY17, CR18, CMM95, CDFQ11, DJ07, DAE02, DW17, DSC05, Dor98, Dor10, DW94, DG99, EHN12, EOZ94, EY07, FMYT16, FHA+11, FStvdV98b, FW97, Fra98, FFS07, GaP08, GSZ13, GTMP07, GST12, GGLT00, Goe94, GY90, Gon15, Gri94, GE96, HRV11, HM10a, HV01, HK95, HW90, HMW07, IBWG15, IMS96, Jia14, JP97, KKK16, KCL16, KM97, KT15, Kar96, Kea97, KS94, KPL13, KK02a, KPP+16, Kir14, KEF11, LS99, Lan98, LS94, LK15, MS07d, MNBK10, MO00, Mar09, MH16, MRS16, MT06].

Aligned

[GH14, GHS09, MB13].

Alignment

[ZZ04].

All-at-Once

[MPW18].

Allmaras

[DHE13].

Allocation

[HS99a].

Almost

[CPW15, DL17, FD03, Jah04, NV98, PWZ10].

Almost-Adiabatic

[Jah04].

Almost-Invariant

[FD03].

Along

[ODN17].

Alternate

[CJ95].

Alternating

[BF06, CG18, DS14, GKK15, HV96, HRS12, LPS13, LDM00, Lui00, Lui01, NWY10, NYY11, RDB16, SL11, Sta94, WY12, WY13, YZ11, YYWY18, ZNZ16, Gar96, Li94, ST96].

Alternating-Direction

[BF06, HV96].

Alternative

[JSZ13, May05, Rah13, Wal14].
Alternatives [HvdV03]. American [AO07, HY08, HFL11, IT09b, KL11, Toi08, dFL05]. AMF [GPHAPR18]. AMF-type [GPHAPR18]. AMG [BFJ+15, BBKL11, Ema10, HV01, KV12b, PS11b, Vas10]. AMG-DD [BFJ+15]. AMG-DD/AMG-RD [BFJ+15]. AMG-RD [BFJ+15]. AMGe [lCCVEKV17, BCF+00, CFH+03, HV01, KLV+16, Wab05, JV01]. AmgX [NAC+15]. Amp`ere [PTvR+14, TKCC13, BW09, Fro12, PBtTB+15]. Amplification [DMBB10]. Amplitude [AIL05]. AMPS [YPHH17]. AMR [BH17]. Analogue [RT11]. Analyses [MMT15]. Analysis [AV14, AdVC00, Aa00, AKW17, ABC00, ASZ07, ACF09, ABTZ14, BA05, BHN10, Bar12b, Bar05, BW00, BPB07, BW11, BM05, BB04, BCM11, BR18, BVV08, BGP94, BS06b, BT16, BDW11, CKOR16, CLPS03, CH17, CRS+18, CP03a, Cj09, CW97, Cha18, CL18c, CV94, CIZ16, CWY17, CG10, CLN12, CWG10, CBF17, CE16, CSW14, Den97b, DJ07, DH95, Di 95, DKKP14, DT00, DTM05, DHP17, DP03, DMM18, DHE13, DP16, EH18, ES18a, EMTO9, FUNB18, FMR13, FCZE14, FMB13, G98a, GV07a, GJSZ13, GN16, GH15b, GL08, GB06b, GKG07, GKT09, G07b, HMT11, HTMM15, HFr03, H096a, HL98, HLT16, H&S94, HK95, HV04, Hu98, IHTR12, JMN01, JG02, KO05, KSB11, KY03, KGR16, KH18, LSV17, LW06, LNP+07, Le 05, LRP07, LP08, Li99, LSN17, LW15]. Analysis [LS05b, LC05b, LW04, LX16c, MMPR93, Man95, MRFV18, MB02, MSL10, MEHL16, MW08b, MM05, MN08, MNZ15, NM13, NN05, OC03, OW02, PMAC15, PVC17, PV15, RWKW14, RG0Y10, RGG15, RX18, RLC08, SK+13, SV08b, SV11, SNB08, SW15, TW13b, TV93, TW93, VXXB16, WC03, WL08, WRSZ18, WB00, WOW00, WO01, WW03, WTWB09, WE06, WZ15, WX17, Xie05, YPN+01, Yin95, ZC04, ZF09, ZPE12, dLRT09, vGEV07, MP94, SA97]. Analytic [Bar14, KVB09, LCD14]. Analytical [BK04, PHA18]. Analyticity [GJ05]. Analyzing [SAY03]. Anchor [BT08, LT09]. Anchor-Free [BT08, LT09]. Anderson [EmM+99, LSV13, SRL06, TEE17]. Anisotropic [ABBM98a, ABBM98b, AFMP15, AP99, BS08, BP13b, Ca07, CPB13, CMK11, CDN16, DP15, DW05b, DK03, GMS02, ISG15, Lec10a, LPP09, MS13, MV94, MP08, MK96, MV98, Pic03, Pic10, PABG11, Sch98, TLE12, WH15, WYT18, Win10]. Anisotropically [GHH07]. Anisotropy [BT99]. Anomalous [CK17, CLAT10, CHL16a, CHL16b]. ANOVA [ZCK12]. Antenna [AT07, BH07]. Antidiffusive [BCV13, MS98]. Antipersonnel [XK08]. Antiplane [GT98]. Antireflective [CH08b, SC03]. Any [Ain14, CCF14, PCFN16]. AP [Jin99]. Aperture [BL03a]. Application [AdSGC12, ABdSF15, AKW17, AMH11, AHDK14, AWA+18, ACCP13, BLV17, BBH18, BG05b, Bla03, BLGL11, BM03, BDR18, BTGH12, BTGMS13, BG13, BFSN08, CGL+12, CGC14a, CTB15, CM98a, CM098b, CH17, CBK18, DMM+08, DKO12, DC00, EBSS+11, FDFW07, GTM07, GGOY02, GV13, GRL10, GW98, GJ07, GL10, GC16b, HSS08, Hen05a, HDZ16, HBSC97, Hua05, HTH+16, Hwa07, ISG15, KOV15, Kra12, LCH09, LSV17, LLS13, LW12b, LW14, LYL+11, LLL8, LCH99, LPP09, MR04, Man99, Mar01, MWBG12, MM98, OS14, OW00, PGLD96, Pe18, PMSG14, Pic03, PP13, PS10b, RWA95, RDB16, RSA05, SBK13, SCM10, SP02, SO10, SF99, TP18, TETI0, T1Z14, TTY16, Wab05, WRB+15, XYG001, XYZ05, YSX17, Yan14, YZ05, YPHPH17, YR12, de 99, Ber97,
Applications [AKM+14a, BF01, BOR97, BTY08, BM10b, BR09, BC09b, BGMW17, CB98, CIZ16, CWY17, CL08, CFM96, CG11, CDW14a, CDW14b, CGMV05, CST16, DTV13, DGSW10, DW05b, ERSZ17, Ema10, ES00, FMYT16, FKTW10, FFSS13, GaP08, Ga09, GRPG01, GU17, GLW18, HT09, Hri03, Hri05, HiH18, Jia14, JED10, KK18, KR17, KPC¸A12, KVMK01, KLL16, Lee13a, LZ01, Log03b, LD04, MRFV18, MSL13, MSW05, PH13, Rub12, RCLO18, SM17, SPS18, SY10b, SY12, SW16, S200, Szs97, Sm97, TPT16, WS07, WS06, WM05, XZ10, YMM14, ZWH14, Zyg11, CC96, LCW95]. 

Applied [AA13, BLS14, BMV13, CV07, CBS00, DDGS16, DLM16, DHJW08, DHE13, GLOR16, HML04, HLP08, KM98, MNS07, NM13, PKD13, Ser06, VSBH99]. Applying [Che16, DJ07, SS10a]. 

Approach [AK09, AP7, AT07, ACW12, ALZ14, BC07, BO06, BC02, BTH08, BGR16, BP06, CF07, CW14, CV94, ICCVEK17, CN10, CH09b, CRV13, CE17, DG08, DM08, DP03, EVLW17, EK14, EK10, FR10, Fli13, For95, FGH08, GB98, G08, GL09, Hhv03, HW03, HT16, HTW12, HSTH18, Hor10, HC98, HLZ13, HSSZ09, IT09b, JK12, JZ13, KHE07, KSD10, KY03, KL06, KL13a, KS15a, KRD18, KZ16, KB17, LSN17, LW15, LW12b, LB07, LB08, MKWG15, MO10, MDM15, MS01, MR18, MM07, OS14, OB08, PV11, PSLG14, PQOB14, QGVW17, RS02, SCC17, SB15, TGS08, TPT16, VS17, VOG16, WL04, WE13, WBS17, WP98, Wic17, WB08b, YY18, YBM18, ZK14c, Zen16, ZC06, ZH09, Zim14, ZVF18, dFL05, dSK11, vdZvBdB10a, vdZvBdB10b, LL94, RG94]. 

Approaches [CSW14, LZO4, SW09, ZLLT13, D95a, Rot96]. Approximants [GSS12]. Approximate-factorization [SS93b]. Approximate-Inverse [GS98b]. Approximating [GKNW18, HMAS17]. Approximation [AN17, APZ13, AG18, ADKM03, BG14, BB07, BGN08, BB98, BBKT15, BB17b, BB15c, BKS16b, B07, BP13b, BH99, BTGH12, BFI07, CGGGS15, CJK15a, CN12, CH08a, Cha07, CL08, CK015, CMM95, CE16, DLY16, DB94, DQ013, DGB15a, DGB15b, DHO12, EL03, E101, FV06, FS05, FNTB18, FT03, FDFW07, GJ08, GHGK15, G18, GI08, GOS12a, GT94, GG09, GOV06, GCD18, GPS17, GNPT18, GNY18, HK18, HLW00, HC18, HR99b, ILW17, IM98, JNZ17, JK07, JP16, JSPC97, K18, KR14, KLS15, KK13, Kaw17, Kaw18, KPP16, KK09, KS11, KG18, Kra12, KKL16, LPS10, LLW16, LCL18, Mar01, MRT00, MNvST13, MR94, MNZ15, NZ06, NST18, NJ14, NSK10, PSA99, PPT11, PSSW15, PCD17, PC98, Rah96, RO15a, RW07, RAT18, SY10a, SY08, SX16a, SX17]. Approximation [SZ00, SP16, Ste99, ST11, Str00a, TE07, TWK18, WR13, WLE10, Wn12, WH15, W04, W09, WSS17, XL18, YS17, ZRK15, AE95, MG95, NCV06]. 

Approximations [BH14a, BKS16a, BR015, CAS11, CJI95, CM13, CHH10, DD13, E11, FWA11, GP99, GT06, G012b, GMS02, HHS16, HMAS17, HBS00, KP09a, KM97, KS99, KLO5, MMZ03, MS13, RT01, SL10, SSC15, SCW17, Str99,
Approximative [KKS08]. ArbiLoMod [BEOR17]. Arbitrarily [DS16, GHS+09, KMV99, KZ16, RMB00].

Arbitrary [ADR14, AAD11, AS16, AD18b, AIV98, BEOR17, CL10, GSY17, MBGV16, MH16, NSK10, PP97, RT99, SO4, TC12, WK96, YYY11, DR93a]. Arbitrary-Order [AD18b].

Arclength [LMR97]. Area [KEF11, PP97, SCDM+10, ZF14]. Arising [BGL08, BSSW13, CCQ16, CHH10, FGS14, GHN01, GV98, HL10, HZ16, HL17, HLM16, PNV16, PS13, RG07, RH90, Slo02, WW03, ZFwCW15].

Arithmetic [AT15, CJ09, Drm97, HJ18a, JK12, JF16].

Arnold [CGP12, GK18]. Arnoldi [BS05a, BG17a, DCP11, EPE05, GN14, GT94, JMR17, LPS10, MY18, SSW08, TT96b].

Arnoldi/Lanczos [GT94]. ARock [PXYY16]. ARPACK [WT01]. Array [IS17]. Arrays [BBH+16, KK09, OA93].

Arrival [RMD08]. arrivals [CC96]. Art [GMSB16]. Artifacts [CDBH16]. Artificial [Dor10, GMS02, LN03, SD11, Tsy97].

Ascent [DZ12]. Asian [Mar03, dFL05]. Askey [XK02]. ASKIT [MXB15, MXYB16]. Aspects [PF94, SW17, SD10, Huc93, RST93, Sun93].

Assembling [Pet99a]. Assembly [AAD11, RKL09, WH09]. Assessment [ANP00, Toi96, VBA18]. Assimilation [BZ07, BGR16, CH09b, GLS08, GS12, PGLD96, RSNNR17, RLG98, TP18, TZ18, ZHS15]. Assisted [CVE13].

Associated [DB94, RC06]. Astronomical [CJN13]. Asymptotic [AKLP10, BLR14, Bur97, CH08a, CGK13, CDN16, DGS08, DLV17, DPS18, GK00, HG98, HT14b, HW14a, JMN01, Jin99, JS10, JW13, JLP18, Kla98a, KH18, LS12a, LM08, NBA+14, PDA09, SL09a, SM18, YJ13, BW93, TR93].

Asymptotic-Induced [Kla98a]. Asymptotic-Numerical [DK00]. Asymptotic-Preserving [BLR14, CDN16, DPS18, Jin99, JS10, JW13, JLP18, YJ13, LS12a].

Atomistic [OZ16, Sha12, WLLZ18]. Atomistic/Continuum [OZ16, Sha12, WLLZ18]. Augmentation [KNN12]. Augmented [AVBTG17, And17, BR05a, BO06, BW11, CJY16, DGRZ15, FGM08, FL08, HK10, LMPQ03, PXYY16].

Atmospheric [GKC13]. Atmosphere [BD94, RC06]. Atmospheric [BZ97, GC16a, GRL10, JSPC97, LCH09, RW97, TSG08, YC14]. Atomic [CD98].

Atomic [OZ16, Sha12, WLLZ18]. Augmented-RBF [AF15]. Authority [FLM+05]. Auto [Der08, MW13].

Auto-accelerated [MW13]. Autoassociative [SAY03]. Automated [BL04b, DJ07, FHR13, GGO02, KXS18, MBM+16, OLM08, RL13, VR16].

Automatic [Bal00, BBR04, BV00, CJ99, DM16, GM00b, KS18, HS18, HBSC97, JK15, PT08, QDKW18, Sar97, SSW18, Sch18, SIS96, XC13, AMB+94].

Automatically [AD04, Gu93]. Automation [FCF14]. Autotuned [DCP11]. Autotuning [HEG14].

Auxiliary [KV12b, Lee13b, WHCX13]. Avascular [BCG+10]. Average [Kaw17].


Avoiding [CD93, GM15a]. Aware [AAC+16, ABT13, GMPZ06, LGH+13, TIL15]. Axis [Zhe07].

Axisymmetric [GGZ02, KCL16, Kup98, MCT+05, Nit99, Ros05b].

B [CML+18b, Red99]. B-Spline [Red99].
Backprojector [EH18]. Backscattering [TBKF14]. Backward
[BM17a, BGS17, BPR16, BRR18, CKOR16, DP16, GGL07, GM11, HLY13, Kas95, MO10, MT06, PS02, ZCP06, ZFZ14].
Backward-Facing [GM11]. Balance [BLMR02, KW10b, SSB08, PSB06]. Balanced [ABB04, BKS16a, BMMM08, BL05, CCM08, CK15, DFRNP07, HSS08, LXL11, TK16, Gos12b]. Balancing [BMP14, BMP16, BO17, Bas98, Ben01, GPTV15, KR12a, NV05, Ten98, WC00, ZT17]. Ball [LLZ09]. Banach [YZ05]. Band [BF01, DJP00, GG09, Wil09, CN93, CT94]. Band-Limited [GG09]. Band-Toeplitz [CT94]. Banded [LNC05, MKSG10, PS18, BW93, Lan93, Tre93]. Bandlimited [BR14]. Band-Limited [GG09]. Band-Limited [BR14]. Bands [GT98]. Barrier [DMM+16, KM18, Lu95, ZK14c]. Barriers [MJR05]. Barycentric [AH18, BHK14, FNTB18, SV13, WTG12]. Based [ACVZ12, AGI10, AMM11, AdVC00, ABC+14, AKA13b, ALLK15, AHT12, ALC17, AB08b, ABE+17, AWA+18, ADH99, ATK12, ACF09, BQQ08, BF01, BCR11, Bar12a, BS16a, BB08a, BO16, BN98b, BzCS11, BSS09, BSSW13, BO06, BW11, BC09a, BPS13a, Ber00a, Ber98b, BLP14, BDvdG05, B09, BHST08, BCC16, BS05f, BZ15, BBT11, BCF+00, BGH12, BGL06b, BH17, BGMW17, CCM05, CL11, CDBH16, CPP+17, CB98, CHR02, CEJ+10, CBG12, CV07, CKD13, CAK11, CD13, CGM99, CMM00, CC03, CKXZ18, CL18c, CBS00, CCVEK17, CJK10, CBF17, CDN16, CSW14, DK00, DMBB10, Doh03, DHP17, DGB15a, EHS+05, EOZ94, EOY05, EN08, EK14, FO08, FWA+11, Fra98, FV01, FN94, FM07, FM99, FKK+14, FGH+08, GVP06, GHHK15, GL18, GLS13, GC16a, GLQ16, GY05, GSS00, GBDD10, GCD18, GHS+09]. Based [GMPZ06, HKYY16, HKF+13, HH13, HKR16, HRT13, HS06c, HTW+12, Hof04, HR99c, HJMS07, ILW17, ILK05, JKMM01, JMNS16, JS10, JV01, Jou94, JGZ06, JK00, KKP14, KH14, KB08, KMW15, KA95, KM97, KMR01, KHE07, Kra08, KBP17, Lan98, LLHF13, LS95, LZ17a, LFBJ13, LNP15, LN17, LM08, LT09, LX14, LFSJ14, LJ17, LLL08, LL08, LJ95, LYLC17, LKeBW10, LFBo08, LZ04, MOSS17, MO00, MCB18, MO10, MR18, MFPG18, MWY17, MHS98, MN08, NXDS11, NMWI11, NK13, NSJ03, NRS18, Not12, OS14, PKR+13, PQOB14, Pic03, Pla98, PMSB12, Rad16, RB06, RG98, RSW10, RNR13, RS13, RLM+00, RAT18, ST16a, Sco17, Sha12, SM18, SP16, SSF16, SU15, Ste00, SL09b, TNL14, TW13b, TII15, TY15, VMM13, VW94, WWY09, WZET13, WNC08, WYZG10, WZSL12, XBC96, YJ13, YBYH15]. Based [YC99, Yu01, YSZ14, ZBFN17, Zha97, ZCZ04, ABS96, BST08, BBSW15, CMV97, DHO12, FFS07, GKM+17, Jam96, MOKS12, NP06, Pir16, RR98, ZDZ16, ZZ18, GMM15, HS06d, GS14]. Bases [CW16a, SLC01, TW03, ABCR93]. Basis [AB17, AD15, BKGV16, BK16, BN98b, BL00, BEEM18, Bla97, BM00, CW16b, CDS98, CHMR10, CB02, DDMQ18, DFS17, Dc10, DP07, DFQ14, DHO12, EPR10, FM12, FP07, FLF11, Gar00, GV12, GD07, HSZ12, JK10, JK15, JP16, KKS13, KR06, KP10, KL13b, LLHF13, LSH17, LQR12, LSW17, MR04, MS13, NRMQ13, OS14, OS15, Ong97, PIR16, PS10b, PSS17, QGVW17, Ros05a, VP14, VW98, WSK99, WRS08, Yan14, Yan18, vdB08]. Basis/Empirical [BEEM18]. Batch [WRB+15, CC96]. Bayes [BJW18a]. Bayesian
[APSG14, APSG16, AS18, AWA+18, BCP15, BTGH12, BTGMS13, DCM14a, CBCR14, CS17, FL18, FWA+11, Hei13, HCHS13, HFL+16, JKLZ18, LM14a, LW14, PMSG14, Rei13, SSC+15, SCW+17, VBA18, WBS+17,
Bursting [BHN07, DMMO05, Elt96, GK00]. Butterfly [Sma01]. Bypassing [KM12, LY17, PDMY14, Yin09]. Bursting [Pir16].

[CM98a, CM98b, CWA14, HML+04, Min02, OLW08, RWX07, SSW18, WMSG09, EL93].

Codes [Ber00a, HBSC97, vHBTC12, JS93].

Codim [KM05].

Coding [ZGG17].

Coefficient [BK08, DF99, FGMP13, FGMP14a, FGMP14b, GM14a, JL05b, JR98, KGM+11, KG14, LK98].

Coefficients [ALLK15, ABST13, BF95, BFK03, BFK05, BF06, BK10, Bjo95, BvW09, DS97, Du16, ES18a, ELtHR00, EM99, FF15, GM14a, GNZC17, KN12, KV05, KZK17, KHRvW13, Lay03, NX12, NJ14, NGX14, PCFN16, Sun95, TT06, TV98b, WSZ14, WY09, WI12a, WI12b, XZB11, XH05, YG15, YSX17, ZK14b, ZZK15, ZMK17, ZTRK14, ZNX14, Bia94, BR95, DS95b, HHRV93, PM95, PCD09].

Color [FNB06].

Coloring [BTvGC+10, GTMP07, JP93].

Column [DG17b, GCD18, MOHvdG17, QOSB98].

Columns [HNR17].

Combination [HHL15, Hun95, WZSL12].

Combinations [OK13].

Combinatorial [IM986, WH90].

Combined [BGN07, DY06, MF06, dDBV14].

Combining [AEFM17, BJW18a, CDGS05, FT03, HVK18, HKC+04].

Combustion [HS16].

Common [Gro02].

Communicability [AB16b].

Communication [BDHS10, BSH16, BFG+16, BT97, CKD13, Cas97, DHGL12, Den97b, GAMV13, GM15a, KV13, SA97, UA04].

Communication-Cost [UA04].

Communication-optimal [BDHS10, DGH12].

Community [KPPS14, ZLWZ18].

Commutators [EHS+05].

Compact [BDK12, DGLW16, GB12, GCB15, GW04b, GM04, Huc08, KS94, LSW17, LPR00, LMT18, PT08, SC98, TAH15, XAW17, ZzSpH14, Pel93, PP08a].

Compact-WENO [DGLW16].

Compactly [Pla15].

Companion [AVW13].

Comparative [ACD95, BBK97, GRT05, LL00, LZ04, Ros05b, GMSB16].

Comparison [AC05, CW15, DS00, DDGS16, GKF11a, INS05, KTB14, KW18, LMM17, LQ03, NV05, QSO5a, RU01, WE06, ZW03, Zin00, ST94].

Comparisons [El06, KP11].

Compatible [BHST08, BF10, BCK+18, GP99, MNP07].

Compensation [MOKS12].

Competitive [Boz09].

Compiler [HMLH18].

Complement [Bl03, CGL01, DKXS18, HVK18, HS17, Kra12, KLL+16, LS05a, MG11, Mal07, MRT00, MMA98, MFG18, OV07, PSLG14, SS99, DS95a, FCR93].

Complementarity [WC17, ZYSL15].

Complements [BS05e].

Completely [ZLWZ18].

Completion [AKM+14a, CA16, GKK15, Ste16, TW13a, WLL+15].

Complex [AM04, AL99a, AH04, BBK97, BOR97, BS96b, BKS13, BGL06b, CCG14a, CMM95, DH01, DJT08, Du11, GM14b, Har11, HML+04, HGZ17, IP06, Kir14, KC16, LS09, MF06, MO08, Nat98, SY14, SM16, SXK17, SAE10, TW03, ABCM97, Gut93, LV94].

Complex-Geometry [SXK17].

Complex-Symmetric [Nat08].

Complex-Valued [DH01, MO08].

Complexity [ABLM17, GM14a, HVW95, IL16, KKT13, Kir14, LKZ17, ZTK18].

Compliance [PPV11].

Complicated [AGH13, Bre96, Yav93].

Component [GG05, GHU14, HMB11, SP16, WZET13].

Component-Averaged [GG05].

Component-Based [SP16, WZET13].
Components
[BzCS11, FB95, HTH⁺16, OW02].
Componentwise [FKQS17, Van00].
Composite [AGH13, CS96, CKXZ18, EIL⁺09, GM14a, HM10a, LMPQ03, Mu99, Par17, PP12a, PRSS11, SP03, SJR09, XBC96, ZCW10, Pet93]. Composite-Grid [LMPQ03]. Composites [TG04].
Composition [BCM05, GGK⁺04a, KM18, McL95, Vil14]. Compositional [WZET13]. Compress [SO18]. Compressed [Ash95, DFG15, KMSM14, SSVW17, YLHX15]. Compressible [ACL09, CD01, DSB99, DDGS16, DL17, Egg18, GY17, Hos98, HC95, Ld12, Le 01, LD05, LXS⁺08, MABO07, PCFN16, PM15, RSHK11, SA99, WLK06, YC14, HG96, Hos97]. Compressing [Mar16]. Compression [AKW17, Bor09, CGMR05, GLL10, LN03, SYZ015, W].
Comput [BEM94]. Computable [ABR17, HHS⁺16]. Computation [ADLR15, AP01, AHR16, AVW13, BZ10, Bal00, BS96a, BS05e, BAF00, BM18, BL04b, BMF12, Bog14, BrVC⁺10, BBK06, BDMFS10, CDY07a, CFSZ08, CPT05, CBRC14, CV18, C399, DP17, DM16, DK11, DL05, DGP18, Dung07, DGK98, EL01, ELHR00, Fli13, FDFW07, GH13, GSS12, G12, GKM⁺17, GST12, Gl09, Gu96b, GD03, HT13a, HHL15, HAG17, Hof05, HS18, HKM97, HK02, IBM01, Inv02, ISS06, JLY08, KB96, Lab05, LLHF13, LS94, LX12, LMR97, LH00, LCH99, Lu97, MH16, ML11, NP14, PSDKG13, RO15b, Sch10, Se95, SL09a, SWT00, VBA18, WW17, WT01, XLS18, ZLBC03, ZZ18, ZLY⁺18, vVK11, AD96, BZ93, Ts97, WM93]. Computational [APS12, AHT12, BB17, BBP13, BS04, BCG⁺10, BWZ10, BTGMS13, CC98, CHL06, DMM⁺16, DTT⁺16, EHW00, EMT09, GGLT00, GM14b, GKO5, JHJ12, JKR08, Kou09, Kra08, LCR⁺16, MW11, NK15, PMSG14, PDE⁺17, Rav05, Ros97, SD10, Ste00, TGS08, TCCK18, Ts99, TAH15, Wan07b, Wan07a, WMSG09, Zim14, AP93]. Computationally [DFN12]. Computations [BK07, BP97b, CS94, CX08, CS10, Dul98, Fai03, FLF11, GTK⁺17, GH07, GCB04, HL95, JR96, LKvBW10, MRL⁺17, Nat98, Nie16, OSCE00, Pek12, SW03, TW96, WRS17, ZCW10, OA93].
Compute [Che16, KR17, TW95]. Computer [CGDD11, GV15, HKC⁺04, HTH⁺16, vdHCD15, MH95, YGC96].
Computers [BDD⁺97, HKRO2, HW94, G97, NP93b].
Computing [AEFM17, AS16, AMH11, AMHR13, AMHR15, AM18, ABB09, ADL⁺12, AC98, AT15, AMB⁺94, BD93, BCT07, BFKY11, BD04, BL08a, BLS09, BMTZ13, BM12, BMF12, BS96b, BGSV15, BGR16, Bru18, CCQ16, CAS11, CHJ16, CC18, DR93a, DLY17, DDF00, FGL09, FMYT16, FGM95, GH15b, GWGN03, GTMP07, GST90, GGGL10, GE96, GM96, GM00b, Gu916, HNS08, HV01, HK17, HHL15, JN10, JED10, JW05, JP11, KV96, KIM99, KMV05, KPC12, Kei09, LCN14, LR10, LS011, LL11, LW13, LT12, LR98, MV00, Man99, MV16, MB99, MW01, MG12, OksG17, PP97, Pet93, PSLG14, RL18, RM08a, Ros15, RX18, S16R15, SPB04, SMB07, SS03, SXY17, SO10, DH16, Str93, Swa02, TS11, TV98a, TWW16, VMV15, VK15, Wan07, Wat98, WTW17, WTS94, Wkz15, WS15, XS16]. Computing [YZ07, YZ08, Zh96, ten95, DS95b, RST93, Tre93]. Concave [LNS96, NNT13]. Concentrating [LL02]. Concentrations [JW05]. Concept [SNB16]. Concepts [GW00, vD03].
Concrete [CST16]. Condensate [BH08].
Condensates [BD04, BS05c, BL08a, BLS09, BMTZ13]. Condensation [SP16, VP14]. Condition [AMHR13, BH00b, BCH12, BHP98].
CCG14a, GH15a, HLLM15, HR14, KR17, KL15, KL94, KLR98, LX08, RL10, SV08b, SV11, WL04, Wan04, Win06. Conditioned [BS07, CH17, CCS98, Du16, PS01, WSZ14, Di95]. Conditioning [BBC07, KR00, SBC93]. Conditionings [AHZ17, ABK11, BHV05, BMDO16, BK18, BTT13, BG04, CH98b, Coa12, Dor10, EO15, EO16a, FJ99, FDS13, Fro12, HG02, HHT03, Her08, LRD04, LP03, LS02, MRS04, Mal07, NCT99, NV08, Pat97, QX08, RK07, RMD08, RSSZ08, Sch09, SC03, SD11, TVA02, Tsy99, UW94, Ush01, Vil09, WX17, WX05, HG96, Tsy97]. Conducting [AKLP10]. Conduct [Don06, SCM10, SK05]. Conductive [BK98, BK99]. Conductivities [MS03]. Conductivity [Du11, EIL09]. Cone [GY05, KO05, ST03, ZYSL15]. Conference [Ben15, Ben13, Ben17, Tum10, TBC11, Vas99, UW94, Us01, Vil09, WX17, WX05, HG96, Tsy97]. Conformal [Ama98, DP08, DK11, LT09, Nas09, NAS13, Por01, SO15, CDH97]. Conformations [BTY08]. Conformal [MTM08]. Conforming [DMM06, DTYY18, Gâr99, GS18, HGP14, JZ06, LMM17, RKL09, JK11]. Conical [GST09]. Conjugate [ABF96, BMT96, BCT00, BBFJ16, BCL99, CRS+18, CDH98, DLZZ17, DFG15, DEC05, DGLW16, Fie98, GY99, GF99, JvGVS13, Kny01, Not00a, PI12, SYEG00, Spl16, SO97, VP14, NP96]. Connected [DP98, DK11, NAS13, NN18]. Connecting [DDF00]. Connection [GSS12, BP97b]. Connections [KR12a]. Connectivity [BMV11]. Conquer [HL18, LT09, LS13b, NH13, TD09, VXCB16, VTD12, LL93]. Conservation [AB02, AD06, AGH00, BLMR02, BF16, BBSW94, BPR99, BG13, BFSN08, CHRO2, CGV18, CW13, CW14, CW16c, CL13, yCWHJ12, CK94, Dk00, DMM05, DGLW16, DS16, DBSR17, DB07, FMR16, GR05a, GB12, GMS02, HH02, HBL05, HLM+09, JT98, JSSZ13, KL00a, KNP01, KPP07, KP17, LPP00, LPP02, LLLX16, LD16, LN03, Mar94, NMAB11, PPR05, QS18, QS08b, SL11, ST17a, Sm00a, SM01, SJD14, TW12, Tor12, TLE12, TW95, VS03, YHQ12, ZQ17, dLRT09, BH97, Pem93]. Conservative [AH12, AHR12, AS05, CH94, yCWHJ12, DS16, Egg18, GBT10, GJ07, LLW16, LW16, NH14, PM15, RG09, SL09b, YY11]. Conserving [AH06, CL97, DG09, HLM06, LW12a, MKRK13, vSRV11]. Considerations [CC98, FK97, Moo00]. Considered [Gr94]. Consistency [Lu95, NP08]. Consistent [BPR04, BHP98, BJW18a, Dor98, HSWW08, LY13, MKW15, PHA18, Sha12, TKCC1, WMU13]. Consistently [BBGS04]. Consolidation [BRBT12, LMW17]. Constant [ABST13, BGK15, Bru18, DZSN09, FGMP13, FGMP14a, FGMP14b, HCRT13, Ren15, SL09b, VMV15, vDA12]. Constant-Coefficient [FGMP13, FGMP14a, FGMP14b]. Constituted [LX08]. Constrained [AV14, AEMM16, AOR18, BV03, BLR99, BPS13b, BG05a, BG05b, BU15, BCL99, BLNZ95, CKXZ18, CLTX15, CK94, Doh03, DS17, DG03, EN16, FCC10, GU17, GH01, GV07b, GKL08, Haz08b, HRT13, HD15, Jay98, KB08, KP12a, KS94, KSD10, KP12b, LCH09, LST07, MH17, MB17, NWW10, PWF18, PR09, PBC05, PC07, QGVW17, RP01, RDW10, ROS06b, SWW08, Vas10, YMW07, YHC16, YP98, AE95, AP93, Dax93, GHKS14, KHRvBW14, SB15, PST15]. Constrained-Transport [HRT13]. Constraint [CR04, CLS16, CW06, Chr09, DW05a, KLT16, Le01, RP01, dSL05]. Constraints [AB08a, BKGV16, BMP14, BL07b, BIYS00, BL08b, CRG14, CY16,
GRMS09, HS06b, HGZ17, KM11, KNV+16, LX14, wLxY00, MMV13, Obe13, PRM97, PMSB12, RCC18, TP09, TCCK18, WBFA09, ZT17, dVPS+17, DR93a.

Construct [BJW18a]. Constructed [BS05f, PS01]. Constructing [CKN06, JK08, NX13, SD10, Wan07b]. Construction [Abg09, AMN15, AA00, BM10a, BM10b, Bör95, LM14a, MV06, NXDS11, PGW17, SY18, SV03, SH01, SLC01, SSB08].

Constructions [NJ14]. Contact [CSW99, CHH01, HSWW08, HSW08, KO05, Kra09, PWGW12, WL97, WK03, YY18]. contacts [LP06]. Context [CRS+18, GKT09, ten95]. Contingent [LCD18]. Continuation [BDF08, Bru18, CCJ07, CKK03, Der08, GKD05, HS16, Kue12, LS13a, LZ99a, LMR97, LC05b, Lu97, Lyo11, RAB+14, SSH06, WYGZ10, vNLB04, LL93]. Continuing [DDF00]. Continuity [CM09, CDPC13]. Continuous [BB13, BS95, BT04, BB08b, BV00, BG13, CE17, EZ11, FEM08, GS98a, GPSY17, HM10a, HH13, Kim08, KW18, KS14, KK16, MMT15, MS18b, SL09b, SW10b, TSK09, YWL17, BS94]. Continuous-Discontinuous [BB13]. Continuous-Time [KK16]. Continuous-Wave [BS95]. Continuously [GX16a]. Continuum [OZ16, Sha12, WLLZ18, XJBS12]. Contour [HW15, Sch94, iW11]. Contraction [HBSC97, HMvdG18, Mat18]. Contrast [EIL+09, HTH+16]. Control [AS16, Aru12, BKGV16, BBH18, Ber98a, BH11, Ber95b, BG05b, BK00b, BIK02, BH08, BvW09, CP04, CGR14, CF00, CP03a, CK03, CP07, CPT05, CK98, CBDW15, CHH01, Ded10, DZS09, DZ12, DMBB10, EN16, EM96, EHW00, EMT09, FL02, GPS95, GM11, GS97, HS05a, HSB12, HN06, HHW00, HR99b, IR98, KK18, KB08, KL+15, KL12, KW10a, Kul12, KW15, Kus97, LPSB17, LV07, LU17, LLX15, LM14c, MSS10, MRW15, MP08, NRMQ13, OPRB06, OS15, PPB14, PS13, PST15, Rav05, RW11, RW13, RL13, RW06, SMN10, SMBR18, SRV+18, TUV10, Wan07a, WG12, Yu95, ZWH+14, ZFwCW15, vWBV09].

Controllability [NMS06]. Controlled [vLH14]. Controllers [AK04, Rav02]. Controlling [Rub12, ZSD+10]. Controls [GXY15, HJ18b]. Converged [IR98].

Convection [ABR17, Ber95b, BBM+15, BDK12, BK98, CLK18, CKV99, CDG+09, DMS01, DT00, FMM98, GR05a, GKV00, GB06b, GV98, HR99a, He96, HY10, JX13, KGM+08, KGM+11, Ko99, KL00a, LE10, LP96, LMR98, LRD+04, LS05b, Lu95, Not12, Pol16, TUV10, WX99, WE06, QX15, ZLS12].

Convection-Diffusion [BBM+15, BDK12, BK98, CK98, FMM98, GKV00, GB06b, GV98, KGM+08, KGM+11, KL00a, LP96, LMR98, LS05b, Lu95, Not12, TUV10, WE06, QX15, ZLS12].

Convection-Diffusion-Reaction [ABR17, CDG+09].

Convection-Dominated [Ber95b, CLK18, DMS01, GR05a, HR99a, He96, HY10, JX13, WX99]. Convergent [HHT03]. Conventional [LT04].

Convergence [ABF96, BK04, BVW03, BJW18b, CDH98, CH02, CL18c, DH95, DKS17, EH18, FS02, FP14, GGL07, GGV18, GKB11b, HHSW11, HBS00, IM07, Ko99, LZ02, LS05b, MW03, NN12, QX07, R99, Ros05a, SO15, Son12, SLC01, VL10, Vi09, WMSG09, WZ15, WX17, vVY00, BY93, HLS93, Lei93].

Convergent [Abg09, BB10, BK08, BM01a, HO18, LW17, Ros96, TBKF14, WYT18, XK08]. Conversion [CC11]. Convex [AP01, BV03, FKQS17, GNPT18, LNS96, ...
LTW18, MK96, OK13, SCDM+10, TV98a. Convex/Concave [LNS96].
Convexification [GPZ17, XK08]. Convexity [LR99, Obe13].
Convexity-Preserving [LR99]. Convolution [Ban10, BSS17, DD13, GT06, HT14a, HS06d, JLZ17, KKT13, LFLS08, LS02, PGLD96, RO15a, RWA95, SLFL06, WX17, XAW17, XL18, ZW03]. Convolution-Diffusion [GT06].
CUDA [DARG13, Hog13]. Cumulant [DGP18]. CUR [KG18, SE16].

CUR-Factored [KG18]. Cumulant-Augmented [DGP18]. CUR [KG18, SE16]. CURL [BVV08]. Current [CCZ10, IHTR12, JLZ16a, KL12, RH09, WKM+07].

Curl [BVV08]. Curl-Curl [BVV08]. Current [CCCZ10, IHTR12, JLZ16a, KL12, RH09, WKM+07].

Curtain [OT09]. Curl [BVV08]. Current [CCCZ10, IHTR12, JLZ16a, KL12, RH09, WKM+07].

Curvature [Bru18, CS94, Ren15, Vog16]. Curvature-Augmented [Vog16]. Curve [BM11, BR14, BH16, COZ96, KK02a, HO93].

Curved [CH09a, CW13, CW14, CS12, Far01, HT16, SF08]. Curves [BBSV10, DD00, EL01, EL03, GMPZ06, He12, JED10, LNS96, MK96, MV06, YH17].

Curvilinear [BS03, CHW17a, CFJT18, CM98c, DCR12, GHTW00, HLW13, KP12b, War13, Zie12].


Cycles [FD03, GKD05]. Cyclic [AP97, CWY17, Pen00, Ren99, LJ93].


D [ACD+08b, BW15, BH97, BI09, BK14, BIA99, BIA05, Bur97, CMV97, CP13, CWL+14, CCC18, CD01, CDB13, CMS06, CH11, Don06, GH13, GV16, GD03, HA01, KWK07, KAU18, KP06a, KC16, Kra09, KNV+16, LRP07, LS12b, LFS14, LYL+11, LW03, Min02, NNO3, PS10b, PWGW12, PELY13, PRS11, RL18, RH06, Sma01, VB07, ZNZ16, ZND18, ZCW10, vVKA11].

DAE [CLP06]. DAES [Bar05, ABST13, AL07, SBS98]. DAGs [HRS10]. Damage [BA05]. Damped [BV09, EKLS+18]. Damping [EDGL12, KL99, WWJ12]. Dantzig [HY12]. Daphnia [BGSV15]. Darcy [EZ11, ACL09, AHT17, BT13, CDF18, CLS16, GHMY18, HLLM15, LTW18, VY09, XZ10].

Darcy-Flux [EZ11]. Darwin [LM15]. Data [ABKS16, AVBTG17, ACLZ15, AKM+14a, BSO98, BL03a, BLS06, BG10, BB08a, Bzh11, Ber09b, Bö09, Bz97, BGR16, BFI07, CPT05, CH09b, KCLN08, CE17, DGS08, DJM16, DG17a, DMM18, DSZ13, EPSU09, FS12, FS13, GLS08, GS12, GPA18, GH14, GMPZ06, HMST11, HHS+16, HW99, HKC+04, HC18, Hös94, IS17, IA14, ILW17, JLZ16b, KTB14, KY14, KLS08, KP05, KHW+14, KP07, LOSZ07, LR99, LNS96, L99, LZ13b, LS09, LB07, LB08, MZW09, MDC08, NNT13, PS18, PGLD06, PGW17, PVK16, PCL+16, PDC99, PS12, PJ96, RSNMR17, RLG98, RDB16, RN13, SDN10, SX16a, SKJ+13, SX11, SW10b, TP18, T18, TBK14, Til15, Wil09, XMR118, YCZ13, YS16, ZCC+16, ZFHS15, DR93b, Gu93].

Data-Assimilation [TZ18]. Data-Bounded [Ber09b]. Data-Driven [GPA18, HC18, IA14, PGW17, XMR118].

Data-Noise [BG10]. Data-Parallel [CKL10]. Data-Sparse [BB08a, Bö09, LOSZ07]. Database [HBJ04]. Datasets [YYWY18].


Davidson-type [NvdP00]. DC [vdDA12]. DCT [ZLBC03]. DD/AMG [BFJ+15].

Dealiiased [BR11]. Deblurring [BNP15, BDE08, BDR18, CDBH16, CC10, CH08b, DEC05, MO00, NCT99, SC03, WNC08, YZY09].

Decay [BC13, Gos12b, ZC04]. Decimation [AKW17]. Decoding [HIJLZ18].

Decomposition [ABLS05, AK17, ADGP07, AK04, BMM04, BPM16, BO17, BDD+97, BDHS10, BJNN02, BL04a, BFJ+15, BLB00, BCLT15, Bet08, BLP14, BF95, BFK03, BEM16, BT13, BIA05, Cai95, CMS94, CDS98, CBS00, CCG14b, CGHT14,
CML$^+18$a, CML$^+18$b, De 12a, DM13b, DT95, Den97a, Den97b, DW17, DW94, FKK$^+$14, Gar94, GKNW18, GLMN15, GJM94, HMM$^+$13, HLLM15, HN06, HM14, HS06c, Hes98, HL18, HJMS07, IW14, JFG13, JKKM01, JCL07, JS10, KXS18, KU18, Kla98a, KW00, KLR15, Kus97, Lar99, Lee13b, LN17, LW15, MRS04, MPRW98, Meu01, MR94, Mu95, NH13, NRSD18, OT11, Ose11, PL12, QSV06, Rav02, RL10, RDB16, RH94, Ste99, TLN14, TS11, VVM12, VMV15, WG00, YCC10, Yu01, YSS07, YY11, ZT17, ZND18, ZBK18, ZS02, Ain96, ALT93, decomposition [BD93, BZ93, BR95, Cai93, DS95a, Hes97, Nat95, Nat97, SS93c]. Decomposition-Based [CBS00, JS10]. Decompositions [CP17, DMM18, H¨os94, LWZ13, Rah13, RDB16, DH16, YR98]. Deconvolution [Bar99, EK14, DG95]. Decoupled [GHMY18, HZXC16, KS14, SY14, Ske00]. Dedicated [DMD$^+$12]. Dedication [PS97]. Defect [DH95, DT00, EM96, Hei96, SZ06, LK93]. Defect-Correction [DH95, DT00]. Deferment [PSB$^+$06]. Deferred [BQR18, CC18, FTY15, RS16, VC00]. Deficient [PRM97, QOQP99, Sco17, Wan97]. Defined [DPF15, PHA18, PV08, RL18, RS03, Say15, Zhe07, BGP94]. Definite [BGLY05, BGM13, FEM08, GM17, JFG10, MV00, MB99, Ng00, Pia15, SO18, VSS14, Zha96, FS96, FF94]. Deflated [ARMNW10, GGPV10, JvGVS13, Mor02, RF07, SYEG00]. Deflating [SO10]. Deflation [AEFM17, BEP98, CGL$^+$13, FBF15, FV01, GSO17, HLM16, KR12a, NV05]. Deflation-Based [FV01]. Deformable [ABC08, KRD18, PRM09, Ros06a]. Deformation [GKT09, PWGW12, de 99]. Deformations [DZ08]. Deforming [Ros05a, Ros05b, TK13]. Degenerate [BCF12, BBM$^+$15, CLST03, CHL16b, LSZ11, Slo02]. Degraded [NO98]. Degree [Ash95, DEV16, GRe03, IMS96, NP17, SV11]. Degrees [HHL07, Lin06]. DEIM [SE16, WSH14]. Delaunay [CWL$^+$14, CC06, CC12b, CC12b, DV98, FCC10, Gär09, HGM14, Joe93, JGZ06, LC05a, LC08]. Delay [BP97a, BMv05, CJK15a, ELtHR00, HV04, HXB11, HXB13, JMM10, Kus00, May08, SSH06, TSK09, WRSZ18, ZC10, ZPE12]. Delay-Dependent [HV04]. Delay-Differential [SSH06]. Delays [HV04, PvdVvG17, SE11, SE13, XZB11]. Delta [SJD14, Wen08, Wen10]. Deluxe [BPS$^+$14a, ZT17, dVPS$^+$17]. Denoising [AKM$^+$14a, CC10, CC03, CMK11, VO96, WNC08, WY13]. Dense [BQR97, BvGdG05, Bör07, Che98, CPD17, DB98, FT03, HLD12, HW94, HJS99, Hog13, LxjH16, Nat98, PBP12, Rah96, ST17b, WLX$^+$13, Yan94, Lj93]. Densities [BJW18b, GZYW18, Gu96, KKS08, SY10a, XLS18]. Density [AM05, Bar12b, BTGH12, CK17, EMT09, ES00, FMP13, FMP14a, FMP14b, GKM$^+$17, HSF07, LY13, PCL$^+$16, Red09, RNC08, TVS98a, UY15]. Dependency [Til15]. Dependency-Aware [Til15]. Dependent [ATK12, BS15a, BFN17, BCM11, BFS16, CB98, CCG14a, CEJ$^+$10, CIZ18, CBS00, EKS15, FE18, GLR16, GC17b, HJ18b, HV04, Hwa07, Kna98, LHO0, MO00, ML11, MNZ15, PW16, RP18, RZ03, RSS08, RWX07, SE11, SB05, SKJ$^+$13, TUV10, TPT$^+$16, We17, XCS16, Z16, ZCW10, vSRV11, Nor07]. Dependent/Algebraic [TPT$^+$16]. Deposition [GST$^+$99]. Depth [ZC106]. Derivation [ABMM98a, CGH11, FHR13, XW05]. Derivative [AMHR13, BtVCG$^+$10, DZ15, FF15, HR14, HSBC97, IT14, KR17, NL16, SPK13, X13, DS95b, SS93a].
Derivative-Extended [SPKB13].

Derivatives [Cao07, DS97, GPHAPR18, GPK04, HW14b, KP09a, Man99, OR18, ÖB05, RKLN07, SSW18, MS93a, WTS94].

Derived [CL03, LM00]. Deriving [DO11].

Described [AKM14b, GLT18, GPS95]. Describing [MK96].

Descriptor [GSW13, HSS08]. Design [APSG14, APSG16, ACLZ15, BFI07, CM98a, CM98b, CGDD11, DKKP14, DW17, GS12, HOY03, HMR09, HRS10, LPSB17, LD04, MEHL16, Ptvr+14, RCC18, ST03, TCCK18, XZ14, vdHCD15]. Designed [BEOR17, KKN18]. Designing [CCO11, Huc08].

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desingularization [HLS93]. Detailed [HS16, YS16].

Detecting [CE17, FD03, VP11]. Detection [AFMP15, BS95, BBC+16, CGKM16, CD06, DG17a, DGLW16, HHMDC18, HA08, LS09, MRL+17, VR16, ZLW18]. Determinant [CG18]. Determinantal [PH16].

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

Determining [BIK02, CWD13, GJ05].

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

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

Detonation [BJ01, BBH+16, HLW00].

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

Device [FFMT96]. Devices [BBGS13, BG07, BBH+16, RWA95].


Diagnosis [BT00b]. Diagnostics [Str93].

Diagonal [AKA13a, APÇ04, Cas97, NP10, PKNS14, Saa05, TS11, VV13, dSL05].

Diagonal-times-Toeplitz [PKNS14]. Diagonalizable [HLTT97].

Diagonalization [BOR97, SBR06].

Diagonally [CEHN08, KW15, QS08a].

Diagonals [DHHR09]. Diamond [MHL+15, MW15]. Dielectric [GJLX16, MG11, XJS12, XJS13].

Diffeomorphic [MR17, MB17].

Diffeomorphisms [CM09]. Difference [AH18, BS04, BM10a, BM10b, CZZK16, CLTX15, CFJT18, DGLW16, FV06, FS02, Gas13, GHST98, GLW18, GW04b, GM04, H11, IW14, ILK05, IT09b, Jia14, JSZ13, JX13, JZ00, KP09a, KW16, Kup01, LNP15, LSW17, LN03, LW03, LS11, LP03, Lu95, LK08, MC10, Min02, MR18, NN03, Not00b, OL98, OSCE00, PKD13, QS03, RU01, RLC08, Str99, TB99a, TW05, Tie18, Wan04, WB12, WLZ18, Yam02, ZLLT13, ZLJ96, Zin00, dVM08, Elt96].

Difference-Quadrature [AH18].

Difference/Element [ZLLT13].

Differences [ADK+98, Hun96, Kwa99, RMR15].

Differencing [BT03a, BN13, BMV05, Kye12]. Different [RL18, SY10a, BME93, BEM94].

Differential [AC08, ACVZ12, AVZ13, AW15, AS94, BP97a, BJNN02, BS96a, BBH18, BCM05, BB03, BBC07, BMV05, Bre17, BHP98, BHW99, BOPGF06, BB02, BLL07, BW11, CG18, CG95, CB98, CLPS03, CP04, CJK15a, CKZ15b, CZZK16, CCG14a, CGJX15, CKK03, CCG14b, CMM95, CRV13, EPR10, EF15, ELtHR00, EM99, FBF15, FGH+08, GASSS98, GK03, GLT18, GB98, GPS95, GW00, HO18, HSS+16, HTMM15, HH13, HJ98, HLS98, HO94, HO96b, HVW95, HV95, HHL07, HG00, HV04, HXB11, HXB13, IM99, JL03, KK13, KZK17, KLR15, KC17, KW15, KMRW97, KR12b, LL17, LCHO9, LU17, Lee09, LMW15a, LE17, LLS13, LCG18, LN05, LPR98, LJ17, LZ13a, LCH99, MPS18, MR09, MBO0, MPW18, MC09, MT97b, MT06, Mis01, Mu00, MS07e, MTBT17, NT18, PRM97, PP12b, PP12c, Pu08].

Differential [RPK18, RMB00, RF10, RNR16, RW06, RXW07, Sch98, Sch05, SE11,
SE13, SWX16, SB05, SSH06, TSX17, TSK09, TS14, VL14, WL08, WH13, WC17, XK02, XH05, XT10, YR12, ZZK15, ZMK17, ZT8K18, ZTRK14, ZCP06, ZFZ14, ZPE12, ZKV99, Zygl11, bZOW07, AGC96, AH18, Boe93, BHP94, Gre93, HHRV93, 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, KLZ+06, LHFL13, LkWB10, MB00, PT08, XC13, AMB+94, Jam96].

**Diffraction** [HSSZ09].

**Diffuse** [FKQS17, JLY08, KdS05, OKdSG17, Qs14, SKMF15, dSK11].

**Diffusion** [ADR14, AN17, ABF99, ABR17, And17, AWA+18, AH12, AKM14b, AM05, Bar12b, BG98, BPR13, BBM+15, BDK12, BW01, BKS98, BHK12, BG04, CK17, CNP12, CH08a, CMK11, CD15b, CLST03, CKV99, CDG+09, CFM96, CE16, CHL16a, CHL16b, EO15, EO16a, EFHL09, EV13, EPSU09, FMYT16, FMM98, FDS13, FDE+06, GW15, GKV00, GH07, GB06b, GT06, GV98, GGS08, GLW18, HG98, HP14, Hen05a, HLT16, IP06, JX13, JYLO, JLZ16b, KGM+08, KGM+11, KBK+08, Kla08a, Kla99, Kna98, KL00a, KL11, LS12a, LP96, LMR98, LR12, LSW17, LM08, LW12b, LS05b, LSV13, Lu95, LX16c, MEHL16, MO10, MPS09, Not12, PKNS14, PNW16, PDH09, PS08, PS13, PP05, Pol16, PC98, RC06, RNVL17, SP04, SRS12, SYO8, SYO9, SM94, TTSM08, TK13, Toi08, TUV10].

**Diffusion** [TM14, TW17, UEE12, VS04, WXK04, WDE+99, Wan07a, WB12, WH15, WRSZ18, WYT18, WE06, XQX15, YTL11, YYY11, Zbi11, ZC12, ZRTK12, ZHDZ17, ZTM+16, dFL05, ZLS12].

**Diffusion-Advection-Reaction** [Zbi11].

**Diffusion-Reaction** [EO15, EO16a, VS04].

**Diffusion-Wave** [JLZ16b].

**Diffusions** [DMR17, JKLZ18, KOSB16, ZWH+14].

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

**Dimension** [An14, AS16, BS05a, CM98a, CKLL16, DSRMK17, GBCT10, HC95, IT14, KU18, LYLC17, MR07, NG18, PSDF12, Red99, RT99, SvGs10a, SD10, WS05, WW17, ZP18].

**Dimension-Independent** [CKLL16].

**Dimensional** [ABC+16, APSG14, AS18, AILP07, AO17, AHR12, Ari12, AS16, BT06, BBK97, BBSW94, BP06, BTWG08, BTGMS13, COZ96, CL18b, CHR99, CS02, tVCAU10, CGV18, CJGX15, CC09, CL08, CJ95, CGM00b, CST+13, DFS17, DFD0, DSRMK17, DF99, DSZ13, DHZ18, EdDP09, FCC09, GJ08, GVP06, GKC13, GGL+98, GB06b, GT06, GV98, GH14, GC16b, HHMS15, HM98, HJ07, HZXC16, HRT03, HRT13, HC98, HR99c, HSW08, Hun95, Hun96, HP16, JK07, Joe95, JK08, JP01, KK18, KL06, KL10, KR06, KS17, KS15a, KP17, LL98a, Le09, LP08, LS95, LCA08, Lem16, LB15, LY16, Liv08, LD04, Mac98, MV09, MAB07, MXY16, MB13, ML11, MZ94, MN00, MDC08, NKLW94, NJ14, NS06, NMA11, OS14, PNP13, PVK16, PMP16, Pet99b, PMSG14, PP13, PM15, RRR30, RT01].

**Dimensionality** [ABTZ14, GH14, OT09, Sma04, ZZ04, ZCC+16].

**Dimensions** [ABMR11, ABIGG16, AA02, BK99, Ber95b, Beu05, BM05, BBMR03, BKS13, CM98b, CP07, Dk00, DS14, DK03, EZ11, EG01,
Dimer [ZDZ16]. Diminishing [WI12a]. Dipole [Rah96, WKM +07, vWBV09]. Dirac [BK14, FKK +14, Rub12, SJD14]. Dirac-Delta [SJD14]. Direct [ASS16, BACF08, BM95a, BIA05, BH14b, COZ96, CCC17, CKXZ18, CILZ15, CIZ18, CPD17, DK10, DAE02, GM14a, GGG04b, HG12, HG00, LAG14, LL00, LXdH16, MS03, NNH99, PR09, PP12b, PP12c, RT99, She94, SWX16, SV00, WT16, Xxh17, XOMN10, YMW07, BME93, BEM94]. Direction [BF06, CG18, HV96, MO10, NWY10, NWY11, Sta94, WY12, YW13, YZ11, YWY18]. Directional [BPT +14, EE14, EY07, OB05, RL17]. Directions [CJ95, FGM95]. Director [RG13]. Dirichlet [AO17, BKOa, BP06, CCG14a, CS12, EO15, Fili13, HJ18c, JP16, KL06, KP05, NXDS11, OK13, OW014, PM+16, SW16, YCZ13, Zha94]. Dirichlet-to [Fl13]. Dirichlet-to-Neumann [NXDS11]. Disaggregation [KV13, DS06]. Disappearing [APZ13]. Discontinuities [ALRT17, GB98, GM14b, LS94, RH06, TB02, WL97]. Discontinuity [DQQ13, IT14, LCH09]. Discontinuous [AB17, AGH13, ACCP13, BB13, BDDG18, BCS11, BDK12, BMV11, BKB18, BG04, CDG17, Cos02, CnP12, CKQ14, CT03, CW17, CHW17a, CHW17b, CMS17, CD02, CVK13, CHH10, CDG+99, CS16, CKRS07, DLM16, DF99, DHE13, EKSW15, EVLW17, EIL01, FDS13, FHL13, GKL11a, Gas13, GvdV17, GHH07, GLO8, Gia18, GH99, GX16b, GC16b, GC17b, GY17, GW04b, HA01, HHM17, HHE10, HH02, HHvR03, HLT16, HS01a, HS18, HS99c, HXB11, HXB13, JWH08, Kan03b, KSM18, Kit05, Kim08, KG14, KT08, KP06b, KW18, KO13, Li01, LXXX16, LY14, LX16a, LSZ17, LK98, MN07, MRFV18, MMT15, MKRK13, NP17, ORST12, OLW08, PCFN16, PP08a, PP08b, Pe05, PRSS11, Pe09, QS05a, QS05b, QS08b, RMIC12, RG09, RAS05, SSD12, Sch98, TLLK09, War13, WWM03, Whi15, WS18, XQQ15, Xu04]. Discontinuous [XS08, XOMN10, YCS16, ZK14a, ZCZ14, ZCL+11, ZP18, vSRV11]. Discontinuous-Coefficient [DF09]. Discontinuous-Continuous [Kim08]. Discrepancies [GPS12, MC94]. Discrepancy [CZ13]. Discrete [AP14, AN16, AB08b, AKM14b, ACD+08a, ACD+08b, BT06, BST08, BPS13b, BPS13a, Bu97, CHKM13, CS10a, CW13, Che13, CW14, CW16c, CH11, DHJW08, DG16, EE001, EdDP09, FH06, FT03, FGH+08, FK18, Gär09, GNOR14, GZYW18, GZW18, HHE10, HM10a, HH13, HPS06, HGPM14, JV96, JLZ16b, Ko04, KZ16, KP17, LCA08, LM17, MRS04, MEHL16, MNvST13, MM07, MRL+17, OV07, PBWB14, PRR05, PedD12, Rah96, Reg96, RF10, RS02, SBX+08, SW10b, TZ14, VN03, WO09, WB00, WkZ15, ZD09, ZW03, ZRK15, ZNX14, vGEV07, AD06, HO93, Sch96]. Discrete-Dipole [Rah96]. Discrete-Ordinate [HHE10]. Discrete-Ordinates [AKM14b].
Discretized [Bjø95, DGB15a, GM14a, ISG15, KT08, RNR13, RLC08].

Discretizing [WLZ18].

Discriminant [AdVC00, CG10, CLN12].

Discussion [ABBM98b].

Disease [BF13].

Disk [TC99, WTW17].

Dispersion [ALLK15, DW15b, GK11a, Le05, MRFV18, VSBH99, XS08, MP94].

Dispersion-Dissipation [MRFV18].

Dispersive

Dispersively [APS12].

Dispersive

Dispersively

Dispersively

Dispersively

Dispersively

Dispersion [BtVC¸G +10, CS11, CSS12, Gro02, LL17, RL18].

Distances [BBK06].

Distillation [And99, ZY05].

Dissimilarity [GLT09].

Dissipation [GK11a, GMS02, MRFV18, Roe98].

Dissipative [AHZ17, CDGT01, GMO14, LSU11, LW16, Mal07, Sha03, WS95].

Distance [BtVC¸G +10, CS11, CSS12, Gro02, LL17, RL18].

Distance-2 [BtVC¸G +10].

Distances [BBK06].

Distinct [FBF15].

Distorted

Distributed-Memory [BtVC¸G +10, Gon15, PR96, Sun96, XXdH+17].

Distribution [ABB15, AKK18, AK04, BKGV16, BDD+97, Bar12b, BBGS13, BCF13, BTY08, BtVC¸G +10, BJ00, CHJ16, DS16, DGRZ15, GY06, GKK10, HKR02, HWD02, HV04, HL18, IBWG15, KVMV99, KZK17, KL12, KZ16, PR96, Rag95, SS99, SE13, Sun96, TZ18, TD99, Wan07a, XxH+17, Liu93].

Distributed-Memory [BtVC¸G +10, Gon15, PR96, Sun96, XXdH+17].

Distribution [ABB15, AKK18, AK04, BKGV16, BDD+97, Bar12b, BBGS13, BCF13, BTY08, BtVC¸G +10, BJ00, CHJ16, DS16, DGRZ15, GY06, GKK10, HKR02, HWD02, HV04, HL18, IBWG15, KVMV99, KZK17, KL12, KZ16, PR96, Rag95, SS99, SE13, Sun96, TZ18, TD99, Wan07a, XxH+17, Liu93].

Distributed-Memory [BtVC¸G +10, Gon15, PR96, Sun96, XXdH+17].

Distribution [ABB15, AKK18, AK04, BKGV16, BDD+97, Bar12b, BBGS13, BCF13, BTY08, BtVC¸G +10, BJ00, CHJ16, DS16, DGRZ15, GY06, GKK10, HKR02, HWD02, HV04, HL18, IBWG15, KVMV99, KZK17, KL12, KZ16, PR96, Rag95, SS99, SE13, Sun96, TZ18, TD99, Wan07a, XxH+17, Liu93].

Distributed-Memory [BtVC¸G +10, Gon15, PR96, Sun96, XXdH+17].

Distribution [ABB15, AKK18, AK04, BKGV16, BDD+97, Bar12b, BBGS13, BCF13, BTY08, BtVC¸G +10, BJ00, CHJ16, DS16, DGRZ15, GY06, GKK10, HKR02, HWD02, HV04, HL18, IBWG15, KVMV99, KZK17, KL12, KZ16, PR96, Rag95, SS99, SE13, Sun96, TZ18, TD99, Wan07a, XxH+17, Liu93].

Distributed-Memory [BtVC¸G +10, Gon15, PR96, Sun96, XXdH+17].

Distribution [ABB15, AKK18, AK04, BKGV16, BDD+97, Bar12b, BBGS13, BCF13, BTY08, BtVC¸G +10, BJ00, CHJ16, DS16, DGRZ15, GY06, GKK10, HKR02, HWD02, HV04, HL18, IBWG15, KVMV99, KZK17, KL12, KZ16, PR96, Rag95, SS99, SE13, Sun96, TZ18, TD99, Wan07a, XxH+17, Liu93].

Distributed-Memory [BtVC¸G +10, Gon15, PR96, Sun96, XXdH+17].

Distribution [ABB15, AKK18, AK04, BKGV16, BDD+97, Bar12b, BBGS13, BCF13, BTY08, BtVC¸G +10, BJ00, CHJ16, DS16, DGRZ15, GY06, GKK10, HKR02, HWD02, HV04, HL18, IBWG15, KVMV99, KZK17, KL12, KZ16, PR96, Rag95, SS99, SE13, Sun96, TZ18, TD99, Wan07a, XxH+17, Liu93].

Distributed-Memory [BtVC¸G +10, Gon15, PR96, Sun96, XXdH+17].

Distribution [ABB15, AKK18, AK04, BKGV16, BDD+97, Bar12b, BBGS13, BCF13, BTY08, BtVC¸G +10, BJ00, CHJ16, DS16, DGRZ15, GY06, GKK10, HKR02, HWD02, HV04, HL18, IBWG15, KVMV99, KZK17, KL12, KZ16, PR96, Rag95, SS99, SE13, Sun96, TZ18, TD99, Wan07a, XxH+17, Liu93].

Distributed-Memory [BtVC¸G +10, Gon15, PR96, Sun96, XXdH+17].

Distribution [ABB15, AKK18, AK04, BKGV16, BDD+97, Bar12b, BBGS13, BCF13, BTY08, BtVC¸G +10, BJ00, CHJ16, DS16, DGRZ15, GY06, GKK10, HKR02, HWD02, HV04, HL18, IBWG15, KVMV99, KZK17, KL12, KZ16, PR96, Rag95, SS99, SE13, Sun96, TZ18, TD99, Wan07a, XxH+17, Liu93].
Doniach [DG99], Donor [MS98].
Dosimetry [DLM16]. Dot
[CWC08, OR005]. Double
[AMVR17, BHG14, Nie06]. Double-Exponential [AMVR17].
Double-Precision [Nie06]. Doubly
[BCT07, DP98, Sl02]. Down [SCM10]. Downdating [AB16b, BPT93]. DP
[KL06, KL0, KLR14, KKR16, KLRU17]. DPG [GMO14]. DQDS [LGP14]. DR
[EMN17, LMW15b]. Drag [Hof05]. Drift
[BS95, BHN10, BBM+08, DMR17, Kla98a, Kla99]. Drift-Diffusion
[SCM10]. Drift-Flux [BHN10]. Driven
[DEV16, DMM18, GDLS14, GPA18, HC18, IA14, MP08, PGW17, TVV11, XMR18, Kö07]. Driver [Der08]. Driving
[BM11]. Dropping [KRT16, May05]. DRp
[PP12c, PP12b]. DSMC [Ste11]. DST
[ZLBC03]. Dual
[ACCO00, BCS07, BC09a, CGM99, CW14, CLK18, DFG15, FK18, HS06d, HQH+16, HSW08, IMS06, KR06, KM16, LPSB17, LN17, LD03, NH12, PWG12, Rad16, WvdZSvB18, Zam16, FCR93]. Dual-Mesh [CLK18]. Dual-Porosity
[HQH+16]. Dual-Porosity-Stokes
[HQH+16]. Dual-Primal [KR06, Zam16]. Duality
[BTT11, CHKM13, CJK10, CH11, FM16, Hof04, WW03]. Duality-Based
[CJK10, Hof04]. Due [Men94]. Dumbbells
[KP10]. dummy [MS93a]. During
[May08]. Dusty
[PL06]. DWT [ZLBC03]. Dykstra
[BR05b]. Dynamic
[AKF15, AK17, BBGS13, Ber98a, BB09, Cab94, CCPF12, CE17, DEP11, GGLT00, HM0a, HB0J4, HEGH14, KKK16, LXS+08, NNW09, PR09, PVC17, RP01, SV08a, SSW98, VBA18, WM09, WSA16, YH17, YP98, ten95]. Dynamical
[AKT16, BS05a, BFN17, BCP15, CW12, GDLs14, HHW00, LSU11, MMT08, MS18b, NK15, RM08a, SHP07, Sma04, WTWB09, WSH14, YWL17]. Dynamically
[BBSV10, MM98, MNN00, MNZ15, SNB16].
Dynamics
[APvDG12, ACCP13, BLS09, BMTZ13, BOR97, BLR99, BCM15a, BRK16, CL18a, CTR15, CGK13, DY06, EW00, FGL09, GKM+17, GKR16, HJM07, ISG15, Jah04, JHJ12, Jay98, Kin05, LR10, LL98a, LL11, LF08, NKT07, NV08, NBA+14, OKF14, QDKW18, RKW14, RWWK15, RN14, SDLN10, Sch94, Sha03, SP02, SZZ97, Sko09, SAY03, TKW08, TPW09, WGF08, YHS07, Zim14, AP93, SRC93].
Each
[CGL+13]. Early
[LFBO08]. Early-Exercise
[LFBO08]. Earth
[KY14]. Easy
[GG09]. Eccentrically
[GP96]. Eddies
[SL09a]. Eddy
[AL07, BST08, CEC10, EAS08, Hof04, JLZ16a, KL12, RH09]. Edge
[BG10, BBMR03, Cas97, DG17a, HHMS15, HO15, HH16, HMC18, MN17, PH13, PSC+16, RL13, vW10].
Edge-Enhancing
[HHMS15]. Edge-Preserving
[BG10]. EEG
[AFF+15, EVW17, WKM+07]. Effect
[FLM+05, HJP04, SHP07]. Effective
[AHH06, CP05, CG17, EHL05, GLQ18, JZ13, Kye12, MCT+05, NV08, TG04, WS05]. Effects
[AAB+15a, BER17, DS96]. Efficiency
[AMM+11, BSA13, CD02, HJ98, Kra09, vHBT12]. Efficient
[AG18, AS18, AKF15, ACC00, AM05, ABT14, BS05, BK07, BB17, BS95, BCR11, BS05d, BMTZ13, BDDSM11, BSW13, BL07a, BS16b, BT97, BFS16, Bo03, BV00, BR11, BB06, BRK16, BK12, CB98, CMS94, CH02, Cha18, CL03, CHX5, CCC18, CN10, CV98, CJ99, CRV14, CD06, CVW06, DH03, DAE02, DGP18, DSYG18, EW00, Ema10, EPSU09, ES00, FDFW07, FNNB05, GS16, GNOR14, GCB15, GLR+16, GST12, GKNW18, Gon15, GM14b, GKT09, GKN18, GS02a, GE96, HR10, HAG17, HNS08, HS99, HB0J4, HBSC97, HMM07,
IBM01, Jin99, JW13, JLP18, KW07, Ket08, KZ00, KPP+16, KRDL18, KHW+14, LMKG16, LS13a, LLW16, LZ17b, LZ13b, LM14b, LLZ15, LCL18, LY18, LC05b, LD11, Luu15, MMRN15, Mac98, MH95, MYX16, MLL3, MST15, MDM15, Mon08, NH13, NN17, OS98, OGO16.

**Efficient** [PKR+13, PHJ11, PMH+16, PSS17, QQOP99, RMR15, RO3, RW07, Ren15, RKL09, RS13, RS99, RO15b, SS98, SSW18, SN16, SSW12, She94, She97, She99, SY10b, SY12, Sto2, ST11, SF99, SO09, TT07, TB99b, UEE12, VBA18, VPP05, WZ18, WS06, Wan13, WLX+13, WBFA09, WWH17, WB08b, WGF08, Xia13, XJS13, XC13, YZ09, YY18, YP98, ZFL15, ZZ18, DG95, LSH93, PCD96, RH94, Yav93].

**Efficiently** [KMV05, MV16].

**Eigenbasis** [Liv08].

**Eigendecomposition** [HKO99].

**Eigenfunction** [BBKK97].

**Eigenpair** [Dul98, MB99].

**Eigenpairs** [De 12b, GW90, MW01, VK15, YZ07, YZ08].

**Eigenproblem** [LZ99a, Oct99, VS17, LZ94].

**Eigenproblems** [AA13, BCR03, EDP05, GPP95, LSH99, PBP13, Sta07, SM07, SVX15, VY16, LSH93, ZAK15].

**Eigensolver** [BDvdG05, GPTV15, HJS99, HLTT97, KPT16, Kny01, Nik00].

**Eigen solvers** [AGSZ16, DMPV08, MRV06, MS06b, PQOB14, SVX15].

**Eigenvalue** [AF15, AH04, BCS07, BLV18, BBB14, BYL13, CR16, CJ05a, CDY07b, CHH10, DN13, DJLZ96, EMM+99, ET01, rFS12, GJ17, GK03, GK18, GY02, GM014, HLD12, HvdG96, HLI0, HvvdV03, HHL15, HLM16, HLM03, JMM10, JMK14, JMR17, KALO07, KH18, KUS14, LXX+16, LZ17b, LMT18, LWK+16, MV00, MS06b, Mc01, MG12, NZZ06, NH13, Ng00, NvdP00, SG11, SW03, Sta07, TD99, VMM13, VXCB16, WH15, XLS18, Xue18, YGB+05, YBH15, ZLG98, vD03, CW93, DS93, MCJN94, MS93b, Tre97, YLP93].

**Eigenvalues** [ARMNW10, AO17, AT15, BS05c, BM12, Bou01, BBO09, BGS15, CCQ16, CP95, HLTT97, KM05, MS12, MN11, MY18, OK13, RA00, RN14, SZ06, SBN11, SM07, SO10, SVX15, YBL16, Tre93].

**Eigenvector** [JKM14]. **eigs** [WT01].

**Eikonal** [ABMR11, CV12, CV15, CCV14, FJP+11, FK13, G05, JW08, ZCL+11].

**Einstein** [BD04, BS05c, BR08a, BS09, BMT13, BN00, BHO]. **Elastic** [CSW99, DKL14b, HM10, Lay06, LL97, LLL09, Min02, Shf95, TY00, VM09, LP06, TR93].

**Elasticity** [BCCK16, CLMM01a, CLMM07b, CPW15, CF05, DZ08, GOS03, HH13, KW00, KR06, KC16, Kral98, MTT15, Pav98, PWZ10, VBT99, CMV97]. **Elasto** [FKTW10, LXX08]. **Elasto-Acoustic** [FKTW10]. **Elastodynamics** [BD04, BS05c, BR08a, BS09, BMT13, BN00, BHO]. **Elastohydrodynamics** [GB06a].

**Elastoplasticity** [GV09]. **Elastostatics** [Sch03]. **Electric** [AAB+15a, ATV07, BBGS13, BJ08, GL+15, HSBZ12, ZB12].

**Electrical** [HHMS15, vDaD12]. **Electrified** [VPP05]. **Electrocardiography** [FDE+06, PS11b].

**Electrodynamics** [BKMM10]. **Electroencephalography** [VP10].

**Electrohydrodynamics** [KS15a]. **Electrokinetic** [BHMX18].

**Electromagnetic** [AILP07, BS05b, BG98, BS06a, CCC18, CHM20, DLM16, HA01, LM15, MG07, PS10b, RB00, SP18].

**Electromagnetics** [CHL06].

**Electromechanical** [RDP08]. **Electron** [KKS13, LFJS14, WPL+13]. **Electronic** [BCK16, DLZZ15, DLY14, LYL+11, Rub12, WMM13, ZZW14].

**Electrophysiology** [BFS08, CWG10]. **Electrostatics** [BCR11, RKL18]. **Element**

[AE08, ABF99, AV14, AG18, AGL13, BB13, BH14a, BCR11, Ban08a, BJNN02, BHV05,
Element-Based [CBG12, lCCVEKV17].
Element-by-Element [FS01, SWT00, DLG97]. Element-Free [HV01]. Element-Structured [VM13].
Elementary [CVW06]. Elements [Ain07, AAD11, Ain14, BRT07, Bla98, Bre96, Cao07, CSW99, CGP12, Che98, CF05, CG07, CDPC13, GK18, GMvdV18, GJ07, GPSY17, GS18, HT00, HPS08, HDZ16, HR16, HTW+12, ISG15, Kup00, LO11, MBM+16, MCB18, MT09, MN07, NHSS13, NN14, Nie16, Ols07, PV08, PP12a, PZPR07, PRM09, PRSS11, RKL09, Ros97, Ros06a, SB10, Sch02, SF08, TX17, WS07, Wan01, WWY11, WSK99, ZHS10]. Elementwise [LMR98]. Eliminate [SO18]. Elimination [CL11, LRW96, Saa96, YYS16, Rag95, Wri93]. ELLAM [WDE+99]. Ellipses [Gro02]. Ellipsoids [Kue12]. Elliptic [ABLS05, AW15, AGH13, ADK+98, AP99, BKGV16, BDS98, BJNN02, BBC+01, BK06, BF95, BAS09, BB03, BIYS00, BHW99, Bur13, CPV95, CPB13, Cas02, CER12, CT03, CD02, CM15, CJ05a, CM99, CML+18a, CML+18b, CRV13, CH11, CDN16, CP17, DEV16, DK03, EFRI10, EF15, EGKS94, EMT09, EPV94, EIL01, F001, Gar05, Gia18, GM14a, GXY15, GH99, GS00, HW15, HHS+16, HCRT13, HN06, HLT16, HG00, ILK05, Jia14, JCL07, JGZ06, KCL16, KMW99, KS11, KLR15, Kuu96, KT08, KPB17, Kus97, LP11, LP13, LV13, Lee09, Lee13b, LLW16, LY13, LNS15, Lui00, MV94, MK08, MWY17, NRMQ13, NV98, Ols07, PL03, PS11a, PP08a, Pic03, PRS11, QZZ14, Sch98, SY10b, SY12, ST00, Sta97, TY08, TPB17, TV98b, WR13, WZ18, Wan04, WHL18, Xu94, YZ05, bZOW07, Cai93]. elliptic [Gre93, HHRV93, McG95]. Elliptic-Parabolic [LV13]. Elliptic-Type [Kus97]. Elliptical [PRM09, Ros06a]. Embedded [AP12, BH12, CKN06, HBL05, KP05, KP06b, LKvBW10, OB05, PDE+17, SSVW17]. Embedding [CL18c, DFS17, DN97, GL18, GLT09, MDC08, CG93].
Embedding-Based [GL18]. Emerging
[AHK+17, PDE+17]. Empirical
[AN16, BEE+18, CS10a, DG16, DHO12, JK10, Kea97, PBWB14]. Employing
[WWY+11]. enabled [CGHT14]. Enabling
[MKG15]. Encapsulating [UA04].
Enclosed [PHA18]. Enclosing [LHL12].
Enclosures [BBB14]. Encoded [NNRW09].
Enclosed [PHA18]. Enclosing [LHL12].
Enclosures [BBB14]. Encoded [NNRW09].
End [ZMK17]. End-Point [ZMK17].
Endpoint [AMVR17]. Energetic [Lee10a].
Energetics [BZ10]. Energy [AK15, AAB+15a, AN16, BPS14b, BW01, BJ08, BMRI13, CCC17, CYZ17, DK10, DJP00, DG09, DoLa03, DS14, GJ08, GHMY18, GZW18, HSWW08, HKR16, HJP03, HJP04, In99, KG14, LW12a, Li03, MNP07, OST11, OW014, RWW14, Sha12, SY14, VAs10, WCS00, YY18, Yan18, ZYLW16].
Energy-Based [Sha12].
Energy-Consistent [HSWW08].
Energy-Corrected [BD09].
Energy-Minimizing [HKR16, WCS00].
Energy-Norm [Yan18].
Energy-Transport [BJ08, DJP00, GJ08, HJP03, HJP04].
Engineering [JKR08, SBMR18]. Enhance [Zen16]. Enhanced
[ADK+98, EEO01, HLM+09, HTH+16, JFG13, KM98, PDTVM08, Zin13].
Enhancement [DP10, DS97].
Enhancements [DMM18, EG93].
Enhancing
[Gup17, HHMS15, NZZ06, Wan12]. ENO
[CLTX15, DBSR17, GB12, JP00, JSZ13].
Enriched [Gia18, HY10, LLW16].
Enrichment [OS15, SL09b]. Ensemble
[AdWR17, GCR16, GC17a, LTT16, LM14b, LM14c, NRS18, PDE+17, Rei13, UWW+15].
Ensembles [AM04].
Entries [ADL+12, ADLR15, CXY10]. Entropic
[CFY18, TWK18]. Entropy [AHT12, ADM+15, Bl09, BDMFSLO4, DG18, FR10, PCFN16, Pup03, WE13, ZWH+14].
Entropy-Based [AHT12].
Enumeration [AIJS01]. Environment
[ADL+12, BS98, HBB+16, LCB07].
Environmental [SBMR18]. Epistemic
[LF12, LQX14]. Epitaxial [BVH05, LL11].
Epitaxy [QZT11]. Equal [RMD08].
Equality [GHNO1, HD15, wLxY00].
Equality-Constrained [HD15].
Equation [AB16a, ABMR11, ADKM03, APS12, ALK15, ABR17, ADGM98, ABiGG16, AB08b, AL99a, ATV07, AP12, ABI00, BBP13, Ban10, Bar12b, BBP14, BLS14, BT97, BCM11, BGS09, BVV08, BV00, BK18, BP13b, BIA99, BTT13, BLMO3, Bru15, BW09, Bur97, CG18, CCF14, CGK+98, CKS01, CL10, CFY18, CCG14a, CF03a, CP05, CP07, CZ10, CD13, CH08a, CDH98, Cha18, CLAT10, CD15b, CWX15, CCC18, CIZ18, CJ95, DMM005, DJT08, DLY16, DHJW08, DKKP14, DKO12, Du11, DHZZ18, DP16, DGM14b, EL18, EBR00, FF05, FJ99, FL04, FMP06, FHL13, Fro12, FJP+11, FKW13, GS98a, GMN02, GZ16, GR17, GMO14, GKO98, GV98, GK05, GHR12, GHR13, GD03, GL10, GX16b, HG98, HHT03, HHE10, HP14, HTMM15, HT13b, HHSW11, HRT03, HJ18c, Hen05a, HSZ12, HC98].
Equation
[HR99c, HW09, HV07, Jah10, JVG12, JLY08, JS10, JW13, KMW15, KA95, KMS15, KK11, KL13a, KP10, KBG18, KL13b, KP05, KP06b, KS14, KO13, Las99, Lmmr00, Lee10b, Lee10a, Lee12, LM05b, LCD18, LB15, LY98, LKK08, LX16a, Ly16, Ly18, LZ04, LX16b, MRS04, MG11, MBK10, MW03, Mc12, MST15, MR01, MV06, MW16, MCV17, Nas09, NAS13, NMS06, OL98, PDH09, PR01, PMR16, Pet01, Pic10, PV15, PBTB+15, QS14, RBH06, RU01, RK07, ST16a, SBP04, Sch05, SAB14, Str94, Str00b, SD11, TY08, VMG09, VB07, WX04, WGT14, WiOH08, WH13, XKWY08, XS08, YM07, YTL11, ZLTT13, ZLLT15, ZNZ16, ZND18, Zha96, ZD09, ZJC12, ZW03, ZSpH14, Zhe07, ZLTA15, ZHDZ17, BDP96, ZzSpH14, Zhe07, ZLTA15, ZHDZ17, BDP96,
CDH97, Elt96, JS93, Lie93]. **Equations**

[ARMNW10, AH18, AC08, ACVZ12, AVZ13, Abg09, APZ13, AHZ17, ABD+17, AFK15, AOR18, AM17, ACL09, ALJ99, AW15, And16, ANP00, ABK11, ACD95, ADK+98, AA02, AS94, AC95, ADM10, ACCP13, BS08, BSV10, BHN07, BGL08, BLH02, BP97a, BT06, BYK05, BJNN02, BK98, BK99, BH00b, BJM03, BWV15, BGN07, BGN08, BN00, BBH18, BL00, BG98, BM01a, BSS09, BL07a, BW11, BC09a, BS15a, BHK14, BM08, Ber95b, BPS14b, BS16b, BCF12, BK10, BP12, BCM05, BGH+03, BHST08, BCM15a, BFS16, BK18, BMSV97, BPR13, BS15b, BV09, BHT11, BBC07, BMH18, BMV05, Bre17, BC99, BJ08, BL03c, BL05, BHW99, BOPFG06, BT16, Bur13, Bur14, BEPW98, BB02, BLL07, BHK12, BDW11, CGGGS15, CCFP12, CC16, CLMM00b, CLW13, CH09a, CG95, CB98, CLPS03, CP04]. **Equations**

[CZK15a, CZK15b, CZZK16, CCG14a, CFF05, CK17, CBG12, CM09, CCA03, CNP12, CV12, CV15, CCM08, CK13, CK15, CCJ07, CW07, CHMR10, CM15, CGX15, CLST03, CGM00a, CVK13, CW06, Chr09, CTTX15, CCV14, Coa12, CKK03, CG07, CV16, CC14b, CGL11, CML+18a, CML+18b, CRV14, CRV13, CH11, CHL16a, CHL16b, DB98, DD13, DD98, DDGS16, DLT05, DG09, DP10, DPS18, DT03, DAE02, DGGG09, DS17, DP03, DF09, DHO12, DHE13, DW15b, DTYY18, DGvdZ18, EPR10, EKSW15, EDG12, Elh98, Elm99, Elm00, EEG10, EHS07, EF15, ELTH00, EOZ94, EM99, EIL01, FKSQ17, FS01, FBF15, FM08, FR15, FM11, FSvdV98a, FGH+08, GJ08, GW15, GS16, GK00, GASSS98, Gar07, GNOR14, GK03, GLT18, GLMN15, GRL10, GHST09, GW98, GXY15, GB98, GT06, GV16, Gra14]. **Equations**

[GK98, GMS18, GPS95, GM15b, GNPT18, GW00, GC16b, GC17b, GLW18, GS97, HG02, HO18, HHS+16, HW13, HS05b, HL09, HZXC16, HNS08, HSS08, HJ98, Hel11, HJ18c, HRT13, Hen06, Her08, Hes98, HS99b, HLM+09, HLS98, HO94, HO96b, HBS00, HH11, HVW95, HV95, HS99c, HTHB+05, HHL07, HY14, HJX15, HZ16, HL17, HG00, HV04, HVW90, HXXB11, HXXB13, HYC15, HXYC16, HK02, IM99, ISG15, ILK05, JL03, JW08, JL11, Jia14, JP00, JX13, Jia99, JCL07, JLZ16b, JLZ17, JLP18, JK05, JP08, JL05b, JK00, JZ00, KK16, KK18, KM11, KNN12, KGM+11, KM97, KK13, KS99, KLW02, KL05, KGGS10, KZZK16, Kla88a, Kla99, KLR15, KL01, KLS08, KCB17, KOV15, Kue12, KW15, KW10b, KQW04, KMRW97, KL00a, KP09b, Kus97, KR12b, Kus00, Kyc12, LW12a, LS12a, LS99]. **Equations**

[LL17, LCH09, LLD99, LU17, LLP98, Lay03, LL03a, Lee09, LMW15a, LE17, LLS13, LSW17, LM08, LM12, LNSZ06, LN05, LPR98, LHL11, LXX15, LZ7b, LJ17, LW17, LSC18, LZ13a, LT00, LLL08, LW03, LSZ11, LPS13, LY14, LB06, Liv15, LFLS08, LC196, LCH99, LN04, Lzu95, Lui01, LX11, LX16c, MPS18, MR09, MN07, MA07, MM+94, MK00, Mar09, MB00, MSW05, MPRW98, MPW18, Mc195, MK08, MT96, MP08, MT99, MT97b, MT06, Mis01, MSS12, MN11, MS18a, MS07e, MW17, MV06, MSV00, MTBT17, NKLW94, NT18, NV98, NFFP18, NBA+14, NSK10, Not12, Not17, Ökt05, OR02, OKD16, PS18, PKNS14, PNW16, PS10a, PCFN16, PL12, Pen00, PT01, PP08b, PRR05, PRM97, PS15, FvdVvG17, PBV18, PP12b, PP12c, PEY13, PS12, PSS17, Pul08, Pup99, RMR15, Rah96, RPK18]. **Equations**

[RAB+14, RT01, RL10, RX17, RW11, RMB00, RC06, RG09, RNR16, RW01, RW06, RXW07, RSA05, SMZ18, Sar98, Sch98, SV08a, SSW18, ST16b, SE11, SE13, SY12, SWX16, SY09, SM94, SWT00, Sim07, SB05, SvG08, SV11, Sta94, SMN10, ST98, SSH06, T14, TLL09, TW05, TSX17, TC12, TSK09, TM14, TC99, Tor05, TJK16, TS14, VS04, V114, VS03, Wab05,
Equations [ZKV99, Zyg11, bZOW07, iW11, AGC96, ABS96, ABCM97, Atk94, AO93, BZ96, Ber97, Bia94, Bøe93, CC79, DS95a, EOD93, ES96, Ena97, ED95, Gre93, HHRV93, HG96, Hes97, Lak93, Lam97, LV94, LCW95, LMS93, MT97a, MS93a, MCJN94, MP94, PSB+06, PM95, She94, She95, SS95, WAS94].


Error [ABF99, AV14, AdVC00, Ain07, ABR17, AOR18, AS07, ATK12, BR02, Ber95b, BPS14b, BCM11, BP13b, BBT11, Bre99, BDW11, Cab94, CKOR16, CP04, Cao07, CGAD95, CF00, CP03a, CK03, CP07, CWCO8, CJ09, Che94, CV94, Cho05, CCH15, CWG10, CH01, CE16, Ded10, DP09, DEV16, DG16, EHW00, EM09, FL02, GLS08, GGL07, GSS00, HHS+16, Har08, HWH00, HL98, Ho04, HR99b, JSV10, KKP14, KLS+15, Kas95, KS99, KW10a, Kul12, KW15, LV07, LU17, Liu96, LPP09, LX16c, Meu11, MNZ15, Nor07, OS15, OC03, OC05, PS02, PDH09, Pic03, Pic10, PS10b, Rad16, RKL18, RL13, San10, Sch03, SK13+1, SS16, TE07, TO15, TP99, TBO10, WC03, WWY11, WRSZ18, WLLZ18, We94, WW10, Wic17, WSH14, WvdZSvB18, Yan18, ZCK12, ZFLB15, ZHS10, dLR09]. Error [vdZvBdB10a, vdZvBdB10b, DG95]. Error-minimizing [Wei94]. Error-Oriented [Wic17]. Errors [GK11a, GGK+04a, GMO14, GKR16, GPS12, Hei13, HW99, LHR+18, Men94, RW97, Rub12, SX16a, ten95, AGC96, SS93b]. Errors-In-Variables [ten95]. Escape [GDS14]. Essential [Sch09]. Essentially [CFF05, HKXY16, QS05a, QS08b, ZLS12, ZQ18]. Estimate [BR02, CPP+17, KLS+15, Str93, Wat98]. Estimates [AL07, BP13b, Bre99, CDH98, CAB04, DEV16, GSV18, HHS+16, HZ11, HR99b, JSV10, KL15, KL94, LD03, Mue11, PDH09, TBO10, WW03, ZCK12, ZHS10]. Estimating [AMHR13, GSO17, HSB12, HR14, HR16, KK16, Le93, MW11, PVV11, SLO13]. Estimation [AK15, ABF99, Ain07, ALLK15, ABR17, AOR18, ATK12, AM05, BP97a, BG10, BF13, BPS14b, Bla03, BBT11, BM00, CP04, CCH15, Ded10, EHW00, EMT09, ES00, FB95, GCB04, GM00a, GKH11, Har08, HRC13, Hei13, Ho04, HTH+16, JKL18, JBL18, KH14, KL17, KS99, KLR98, KU96, KKH16, LV07, LX08, ML17, Lu96, MS07d, MDG+18, Ng94, NRS98, PHA18, PWG16, PCL+16, PS10b, RKL18, RW13, RTH17, SPKB13, SW01, TP18, TE07, TO15, TTY16, TP99, WWY11, WE13, WLLZ18, Win06, WSH14, WvdZSvB18, YR12, YSS07, ZBFN17, ZFLB15, ZTM+16, ZW16, vdZvBdB10a, vdZvBdB10b, Lu93]. Estimator [Che16, LPP09, Pic03, Pic10, SCH03, SS16, WW10, HW99]. Estimators [Rad16, Red99, TV98a]. Euclidean
Euler [ACCO00]. Euler [ABCM97, CBG12, CCM08, CK15, CPR11, DDGS16, DLV17, DT03, EOD93, Enr97, GNPT18, HG02, Her08, KLS+15, KQW04, LK93, LLD99, LW03, LJL98, LSM93, MV06, NBA+14, SMN10, TKK16, TV93, Xu99, YC14].

Eulerian [AHH12, AHR12, BCM15a, GH18, Gra14, GPSY17, NSK10, WLE*00, WZET13, WT16, YWL17]. European [AO07, FO08, OGO13, OGO16, Toi08].

Evaluate [BS98, Bar00, HS99a, PRM09]. Evaluating [DP07, Li10, OR18, Yun03]. Evaluation [AO07, Bar14, BWV15, BN98b, BER17, BV98, CBM08, CML18b, FO08, FEL18, GI17, JNZ17, JK10, Kei09, RT05, Rub12, RN14, SM15, TW09, Nat95, Nat97].

Expectation [LR10]. Expectations [ML11]. experience [Car03]. experiment [Ber97]. Experimental [BF07, LPSB17, RCC18, TBK14, BL03a]. Experiments [ABH03, APSG14, APSG16, AS18, Ban10, BBC+01, BG12, CGP12, CGDD11, DTT+16, GMT98, HRV11, vdHCD15, Kor93].

Explicit [AVZ13, AAI08, BPR18, BB09, BK11, CHAMR06, CZZK16, CS10b, CS10c, DW98, DG09, DMD+12, EJL03, FGS14, GKC13, GLQ18, GMM15, HS05a, HIRT13, JLP18, KCB17, KW10a, Lay06, LD05, LMS97, MO00, NP17, ODN17, PKD13, SS93a, VS04, VL01, ZS02, Ena97, LG09, LX14, Nit99, OSU10, OW98, RMC12, Ros06a, SNB16, YH17, aKT18, BS94, SS93a].

Evaluations [KHRvBW14, TZ14, TEE+17].

Event [GL15, Kof04, LLZ15]. Every [Fer98].

Evolution [And16, BEG+08, BGN07, BGN08, BGK15, CGKM16, Con12, DHO12, E0z94, JTZ08, JLZ17, KM97, KLS08, Kup00, LPS13, LFLS08, LMM04, McL12, MK06, MRSS14, RS00, SL11, ZFLB15].

Evolutionary [CDGT01, DKZ09, DLZ10, MPW18].

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

Exact [BHNPR07, BL14, BBR08, CFSZ08, DMR17, DN97, Fli13, JP08, NHH03, NMS06, Oli01, PDH09, PV08, PEC+14, Saa03, SB04, SWU11, St93, VS03, WUX13, Yan18, ZH09, HLS93]. Example [CST16]. Examples [MT99, GM96].

Exascale [MRL+17]. Exchanger [VP14].

Excitation [CVK13]. Execution [MZW09].

Exercise [LFB08]. Existence [FLM+05, Gär09, Zyg11]. Exit [BP06, GDS14]. Expansion [Bur97, CGXX15, DLY14, FUNB18, FMs17, GTK+17, O03, O05, PDA09, RZ03, RO12, ZRTK12, aKT18]. Expansions [BBK97, BDW11, CJ05b, CML+18b, FO08, FEL18, GI17, JNZ17, JK10, Kei09, RT05, Rub12, RN14, SM15, TW09, Nat95, Nat97].
FENE [KP10]. Fermi [Rub12]. FETI [KL06, KL10, KR06, KLR14, KKR16, KLRU17, RT01, Ste01]. FETI-DP [KL06]. Few [GHS9+09]. FFT [GMSB16, LFBO08, ZZ18]. FFT-Based [LFBO08, ZZ18]. FFTs [MK93, Pel93]. FFTW [Pip13]. Fibrers [WiOH08]. Fictitious [BRT07, BCCK16, For06, HRT03]. Fidelity [CC11, NKM10]. Fiedler [CQZ17, KT15]. Field [And17, ATV07, BBKT15, BCM15b, BFSN08, CS94, CCC17, CL03, CCCZ10, CRV14, DZ08, FTY15, GHMY18, GHHK15, GZYW18, GZW18, GV16, GX16b, GrM10, HSZ12, HKC9+04, HJP04, Hri03, Hri05, JW13, KS17, LIT16, LB15, LY13, LS90, LK15, LXL11, MM14, MKWG15, PvdVvG17, PV15, RAB9+14, RWWK15, SY10a, SY14, TK13, WPL9+13, WYT18, WMUZ13, Wic17, YY18].


Finance [MSW05, WS05, WS06, Wan07b, Wan12]. Financial [HW14b, KKS08, Mar01, RO12]. Find [Goe94]. Finding [CGS02, CK98, CP95, FBF15, LZ01, LZ02, Liv08, Saa03, XYZ12, YZ05, ZDZ16]. Fine [BDO12, But13, CP15a]. Fine-Grained [BDO12, But13, CP15a]. Finite [AE08, ABF99, AV14, Ain07, AAD11, Ain14, AG18, ADK9+98, AGL13, AS05, AD06, BB13, BH14a, Ban08a, BJNN02, BHV05, BB10, BBB14, BBGS04, BS16a, BOF16, BRT07, BCLT15, BSS09, BM98, BBKT15, BC99a, BP13a, BPS13a, BCF12, BYL13, BP13b, BM110, Bre96, BW99, BRTB12, Bur13, Bur14, BCM15b, BG13, CGGGS15, CH09a, CGQ10, CG99, CPV95, CM98a, CM98b, CSW99, CK03, CGP12, CL08, CZ10, CHKM13, CK15, CD02, Che05, CXX10, CLTX15, CFJT18, CF05, DG07, CFM96, CDPC13, CHH01, CVE13, CH11, CSW14, DY06, DMMO04, DMM05, DG98, DLCT05, DRFP07, DFN12, DKR12, DHP17, DGLW16, DEP11, DZ08, DW15b, DTY18, DvDvZ18, Egg18, ES17, EHW00, EI01, Fai03, FV06, FHFR13, FM08, FM11, FKTW10, FS02, FCM12, FL08, FMM08, GJ08].

Finite [GYZ11, GW15, GHHY18, Gas13, GK18, GL08, GHST98, GKT09, Gra14, GJ07, GSY17, GC97, GLW18, HA01, HHS9+16, HH02, HL09, HZX16, HR99a, HPS08, HZ11, HTW9+12, HY08, HJP03, Hor10, HQH9+16, HS01a, HS18, HY10, HK95, HS99c, HLY13, HSSZ09, Hun95, Hun96, ISG15, IL16, IT09b, JY96, JK11, JHJ12, Ja14, JSZ13, JX13, JK05, JGZ06, JR96, JZ00, KLV9+16, KP09a, Kan03a, KL05, KMS15, KKL05, KLS06, KS07, Kir14, KO17, KP12b, KLY05, KLY07, KW16, KZ16, KS14, KW10b, Kup00, Kwa99, Kye12, Lud12, LW12a, LO11, LP11, LP13, LP06, LLP98, LMR08, Le 01, Le 05, LRP07, LP08, LDS11, Lee14, LNP15, LSW17, LMM17, LOL13, LO14, Lem16, LHL11, LSV13, LSZ11, LTYW18, LP03, LKhWB10, Lu95, LMMW04, LK98, MMZ03, MH17, MI14, MRT00, MLL13, MC10].

Finite [MB13, MBM9+16, MCB18, MT09, Mic01, MTTV98, Min02, MSS12, MR18, MS12, Moo00, MS18a, MWY17, MSV00, NN14, NN03, NNRW09, NV98, Nie16, NSK10, Not00b, ORST12, OX17, OQRY18, OL98, OSCE00, PRS12, PDTVM08, PP12a, PL06, PSKG13, PM9+16, Pet01, Pic10, PvdVvG17, PWGW12, PRSS11, PC98, QZZ14, QS03,
finite \[\text{[MP94, PSC}+16]\]. Finite-Difference \[\text{[FV06, HZ11, JZ00, LP03, Lu95, OSCE00, RU01, ZLJ96, Zin00]}\]. Finite-Element \[\text{[AV14, CGGGS15, CGQ10, GJ08, HJP03, Le01, Le05, LRP07, LP08, LDS11, MTTV98]}\]. Finite-Volume \[\text{[FEM08, MSV00, ZJC12]}\]. Firedrake \[\text{[LMKG16]}\]. First \[\text{[Abg09, AMMR10, AMM}^+10, AMM}^+11, AV14, ALMR17, AM05, BFS16, BL03, CLMM00a, CLMM00b, CP03a, CP05, DM13a, DFN12, FMM98, HZXC16, HJ18c, HT16, HO94, HO96b, HS01a, Lan94, LMMR00, LM15, LMM17, LW16, NKLW94, OKF14, PSC18, VC00, ZPE12, HO96a]}. First-Kind \[\text{[NKLW94]}\]. First-Order \[\text{[AMMR10, AMM}^+10, AMM}^+11, ABM}^+13, AV14, ALMR17, BL03, CLMM00a, CLMM00b, FMM98, HZXC16, HO94, HO96b, HS01a, LMMR00, LM15, LMM17, ZPE12, HO96a]}. First-passage \[\text{[HT16]}\]. First-Principles \[\text{[OKF14]}\]. Fisher \[\text{[DG08, RU01, ZW03]}\]. Fitted \[\text{[Woo94]}\]. Fitting \[\text{[BL506, BR14, BFI07, DGB15a, DGB15b, FS12, HW99, Hok17, LZ13b, LS00, NNT13, SL09a, ten95, OS95, FS13]}\]. Fixed \[\text{[AIL05, CWY17, DBSR17, HV04, KS94, KM05, SW15, Van00, Ver96, HS95]}\]. Fixed-Point \[\text{[CWY17, Ver96]}\]. Fixing \[\text{[HY08]}\]. Flames \[\text{[HC95, SAY03]}\]. Flapping \[\text{[EKSS16]}\]. Flat \[\text{[FP07, QZZ14]}\]. Flexible \[\text{[CGL}^+12, CGL}^+13, GW17, GGPV10, HZ10, HD15, Not00a, RTH17, SBK13, SSM16, SV01, WO98, Saa93]}. Flexoelectric \[\text{[AAB}^+15a]}\]. Flight \[\text{[EKSS16]}\]. Flights \[\text{[CD15b]}\]. Floating \[\text{[And99, CWC08, DH03, Drum97, ROO08a, ROO08b, ZY95, ZH90, Hi93]}\]. Floating-Point \[\text{[And99, ROO08a, ROO08b, ZY95, ZH90]}\]. Floquet \[\text{[LZ17a]}\]. Flow \[\text{[AB17, AABM13, AO07, AHR12, AKM14b, BM11, BHN10, BD04, BL08a, BG08, BCT05, BSSW13, BSR98, BPSV15, BK02, BSA13, BEM17, BMV13, BKBT18, CL97, CMS17, CP13, ICCCVEK17, CDB13, Cor98, Egg18, EAS08, EMSW12, EdDP09, Fai03, FL02, FHR14, FK97, GYZ11, GHTW00, GO99, GSSM08, GM11, GP96, Har08, He96, HK03, HR99b, HQH}^+16, HB97, HC98, HR99c, Hun95, Hun96, JMMN01, JKGM10, JVG12, JWH08, KGGS10, KSM18, KP10, KM98, KVMK01, KW18, Kup01, LVWV03, LHL12, LE10, Lay96, LL97, LD16, LIL13, LYL17, LTW18, LH00, LZ04, LRG017, MAB007, MJ05, MRT00, MS06a, MMS05, MZW09, MM07, NH12, OSCE00, PMSG14, PEdD12, PBV18, PM15, Rav02, Rav05, RSG17, SSS10a, Sl02, Sma01, SU15, Sta00, SF99, SO09, TY00, TP09, VY99, VS03, WLK06]}. Flow \[\text{[WZET13, WPT17, Whi15, WZ15, Xu04, XV05, YSY16, YSS07, ZT17, ZHS10, SS93c]}\]. Flow-Control \[\text{[Ber98a]}\]. Flows \[\text{[AE08, AK15, ABB}^+04, BB13, BST08, BBK97, BBSW15, BCL15, BPS13b, BPS13a, BG05b, BB08b, BD99b, BC09b, CFGM11, CCC17, Cha07, CL03, CFDF18, CC12a, CD01, CLK18, CBS00, CHH10, CCH15, D00, D098, EAS11, GJP}^+14, GC16a, GZ02, GZYW18, HM98, HR99a, HPS06, IR98, KCZ15, KE11, LEE14, LD05, MCT}^+05, Man05, MBG16, MM14, MT99, NNH99, OW00, RSHK11, Ros06b, SA99, SL09a, SY10a, Ste11, VN03, WLE}^+00, XMIR18, YC14, ZCZ04, BY93, LL94, TR93].
Tsy97. Fluctuating [WSA16].

Fluctuation [BLH02]. Fluid
[AB17, ACF09, BQQ08, BC10, BB15a, CFGM11, CHH10, Cor98, CDFQ11, DY06, DP10, ES17, ES00, EF05, FUNB18, FGS14, FHR14, GLQ16, GZYW18, HSF07, IR98, JHJ12, KCZ15, KV05, LQR12, Lee14, LM15, LO14, Lem16, LFWP08, LL08, LXXK08, MRT00, MKWG15, MEF09, NV08, ODN17, PRS12, PVV11, QS14, RR98, RW13, SCC17, SM17, SCM10, SNB08, SF99, WLE00, WLK06, XMRI18, Zim14, ZVF18, vBdB05].

Fluid-Filled [ODN17].


Formats [RO15a]. Forms [KM05, RF10, RS02, BGP94]. Formula [BCMM03, HT14b, PDA09, Ush01].

Formulas [CK17, Ske00, SSVW17, WTG12].

Formulation [BCILT15, BMMC98, BH11, BPS13b, BLP14, Bjo95, BIK02, BLM03, BRBT12, CW07, CRMC12, CCM08, Del14, ERSZ17, EPSU09, GM17, GS16, GP99, Giv12, HMCK04, JSZ13, KL06, KL10, Kup01, LM08, LLL08, NV08, PHA18, Pat97, PEC+14, QZZ14, RG09, RH09, WZET13, YPHH17, ZVF18, dVM08, FCR93, LSM93, Nat97, PM95]. Formulations [AMM+11, AKM+14a, BB13, BH14G, DH01, GRL10, GKC13, GR04, HV07, LWCL03, MG11, MRVF18, PS11a]. Forward [BPR16, BR18, BJW18a, CH09a, DP16, EVLW17, MO10, MT06, VP10, ZS14, ZF14]. Forward-Backward [BPR16, DP16, MO10, MT06]. FOSLL* [LMW15a]. FOSLS [FMM98]. foundation [Ber97]. Four [AO17, MM14].

Four-Dimensional [AO17]. Four-Field [MM14].

Fourier [BLS09, CRMC12, EM199, GHR13, GMS18, RAT18, AD96, ACD*08a, ASS16, BS94, BBVV13, BR95, BR18, BVV08, BIA05, BS06b, CFY18, CDY07a, CD13, DG17a, DGLW16, DR93b, EBR00, EB96, EKSS16, FO08, FMB13, Gar00, GGL09, GP16, Goe97, GHR12, Heg95, HHvrR03, HKM97, Hue08, Inv02, KV12a, KM12, Lyo11, MH16, NP96, NL99, NN99, OW02, OGO16, Pek12, PP13, RGOY10, RO12, RO15b, Sch96, WOW00, W001, WM05, XAW17, Yin09, ZF09].

Fourier-Based [CD13]. Fourier-Cosine [FO08]. Fourth [AP12, BS05c, BGN07, BT97, GB06b, Hen05a, KT05, KR11, LPR02, LD16, MN18, PL03, RWX07, ZJC12, ZF14, ZspH14, She94, She95]. Fourth-Order [AP12, BS05c, BT97, GB06b, Hen05a, KT05,
LPR02, MN18, PL03, RWX07, ZJC12, ZF14, 
ZzSpH14, She94, She95]. **FQMR** [SV01].

**Fractal** [PD15]. **Fractional**
[AN17, AG18, ALLK15, AF15, BCF13, 
BHK12, CRMC12, CZK15b, CZZK16, CK17, 
CD15b, DW15b, FMYT16, FF15, GR17, 
GLW18, HO18, HP14, HLW00, JLZ16b, 
JLZ17, LHL12, Li10, LWZ17, LZZ16c, 
MS17, Nik13, PKNS14, PNW16, SXX17, 
TSX17, WB12, YTL11, ZK14a, ZK14b, 
ZCZK14, ZAK15, ZLLT13, ZZZK15, ZLTA15].

**Fractional-in-Space** [BHK12].

**Fractional-Step** [BCF13].

**Fracture** [BPS13b, BPS13a, EdDP09, HTW +12, 
HGPM14, MM07, PEdD12, Wic17].

**Fractured** [CDF18, SCC17].

**Fractures** [FK18, MJR05].

**Frame** [CDBH16, LFJS14].

**Frame-Based** [CDBH16].

**Framelets** [CCSS08].

**Frames** [Pir16].

**Framework** [AGI16, ACD+08a, ACD+08b, Ban08a, 
BS16a, BBH+16, BBD18, BTGMS13, 
BCWHJ12, CKO15, DO11, DSZ13, 
DGvdZ18, FCF14, GH18, GPA18, IA14, 
JH12, JMSN16, KLRU17, KR00, Kye12, 
Lec12, MTBT17, OS14, Pek12, PXY16, 
PMG14, PBV18, San10, TC12, Til15, 
TTY16, WL13, ZAD+16]. **Frank**

[MBG16].

**Fréchet** [AMHR13, HR14, KR17, LKvBW10].

**Free** [AS06, BGM13, BY90, BB15c, Bog14, 
Bur97, CFSZ08, yCWJH12, FK00a, GY02, 
HKE+13, HV01, HQH+16, HY10, HHLW15, 
KCZ15, KRDL18, KV13, KGT07, LP08, 
LT09, LXAM16, MS06a, MT99, PD09, 
PTvR+14, RK07, Sch02, Str94, TY00, T18, 
WL01, WWY99, XZ10, YH17, vKVA11, 
vZVvdB10a, vZVvdB10b, ACW12, Brue15, 
Fre93, SKF18, TR93]. **Free-Boundary**

[vZVvdB10a, vZVvdB10b]. **Free-Form**
[PTvR+14, YH17]. **Free-Space** [MT99].

**Freedom** [SV11]. **frequencies** [WM93].

**Frequency** [AIL05, BS95, BK16a, BER17, 
CHL16b, DT95, Den97a, ERSZ17, HV07, 
IJ08, KMW99, KK02b, LAG14, RBH06, 
ZN16, Zim14, vLH14].

**Frequency-Adaptive** [IJ08].

**Frequency-Domain** [vLH14].

**Frequency-Limited** [BKS16a]. **Friction**
[HMW07, HS08]. **Frictional**

[CHH10, HS08, Kra09]. **Fringe**
[NN99]. **Fromm** [DT00]. **Front**
[ARu12, BLGL11, BCS11, CL07, DK00, 
GT98, GBCT10, GL+98, GST+99, GM13, 
HC95, HY08, Hw07, LS95]. **Front-Fixing**
[HY08]. **Front-Tracking** [GT98, GBCT10].

**Frontier** [vdBF08]. **Fronts** [DBC13, TN16].

**Frozen** [DLY16]. **FSAI**

[JFG10, JF11, JFG13]. **FSAI-ILU** [JFG10].

**Fuel** [BK00b]. **Full** [CG+98, CG9+14, 
EZ11, FEM08, MBV013, PBC05, RGOY10, 
TH17, YHC16, YBM+18]. **Full-Space**
[YHC16]. **Full-Tensor** [FEM08]. **Fully**

[ABR17, AW15, AH06, AHH12, BL14, 
BW01, CG18, CF00, FCC10, GZW18, 
GZ18, GZWM14, HYC15, JLZ16b, KS18, 
KCP17, LVWW03, NT18, TKCC13, Wic17, 
YCC10, YC14, Lam97]. **Function**

[AP14, AP01, ADH99, AM05, BLB00, Bur97, 
DFQ14, FMYT16, FM12, FT03, Gar97, 
GS12, GST09, GST12, GD07, Hei13, HR14, 
JK07, JK10, JK15, JBL18, KR17, KV06, 
KVM05, KK09, KL13b, KHvBW14, Kup01, 
LS17, LSW17, MR04, O013, Pir16, 
Rad16, RT11, RM08a, SX16a, SX17, SQO02, 
TEE+17, Wen08, Wen10, WRS08, XEG06, 
XS17, XKWY08, ten95, Car93, OS95, PM95].

**Function-Based** [Rad16].

**Function-Related** [FT03]. **Functional**
[CH15, DP17, DM08, HSF07, HZ11, 
LY13, LD03, MP08, NR98, NMFP16, 
UWY+15, WL08, WH13, ZXB11, ZKV99].

**Functional-Differential** [ZKV99].

**Functionals** [AL07, GRPG10, Ho04, 
MNP07, OBC05, SCDM+10, SBP04].

**Functions** [AMVR17, AM18, ALLK15, 
ACCP13, BM102, Bal00, Bo07, BT04,
BN98b, BF13, BNP15, BGM09, Bre17, CHR99, CGS02, CBNO2, CVW06, DFS17, DZSNO9, DG17a, DGK98, EHL05, FL18, FP07, FLF11, FS08, FK07, HK17, HL96, KL94, LLHF13, LW16, LS00, MS06a, NSJ03, OR18, Rah13, ROS05a, SB13, STR95, TV98a, TWW16, WSK99, Wel17, WTW17, WJMT15, XAW17, ZCK12, ZZ18, dBMZ11, FS96, NCV06, Tan93.

Fundamental [AFF15, AA13, SK05].

Further [CLMM00b, GG95, LZ99a].

Fusion [PVK16].

Future [EMT99].

Fuzzy [CHX15, CRV13, vdHCD15].

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

Galerkin [LWZ17, PP08a, SBND11, AB17, AW15, AGH13, BB13, BG18, BBH18, BB15a, BS15a, BS16b, BK00a, BT97, Boe93, BCS11, BDK12, BMV11, BKBT18, BG13, BG04, CDG17, Caw12, CNP07, CKPQ14, CN99, CW17, CHW17a, CHW17b, CMS17, CVK13, CHH10, CDG+09, CS16, CGH11, CRV13, CRV08, DLM16, DHJW08, DAE02, DHE13, EKSW15, EAS08, EAS11, EVLW17, EPSU09, FS14, FF05, FHL13, GK11a, Gas13, GvdV17, GHH07, GL08, Gia18, GLL+14, GGK04b, GX16b, GC16b, GC17b, GY17, HHH17, HHE10, HS05b, HH02, HhvR03, HLT16, HS01a, HS18, HS99c, HJX15, HXB11, HXB13, Kan03b, KZK17, KSM18, KS11, Kim05, Kim08, KL13a, KG14, KL13b, KT08, KW18, KO13, LS99, LV13, LLW16, LS12b, LLLX16, LZX17, LY14, LX16a, LS17, LTW18, Liv15, Log03a, Log03b, LMMW04].

Galerkin [MN07, MRFV18, MMT15, MST15, MRRK13, Mr97, MWY17, NP17, ORST12, OLW08, PP08b, Pet05, PSS17, Po09, QS18, QSO5a, QS05b, QS08b, RMIC12, RG09, RSA05, ST08, She94, She95, She97, She99, SW16, SS10b, Smi97, Str00a, SL09b, TVV11, TY15, ULI10, UEE12, WRSZ18, War13, Whi15, Win10, WvdZSV18, WS18, XQX15, Xu04, XS08, XOMN10, Yan14, YCS16, ZCL+11, ZP18, vSRV11].

Galerkin-Characteristic [EAS08, EAS11].

Galerkin-Projected [SBND11].

Games [And17, AHJS01].

Gas [NCV06, Tan93].

Gauss [Alp99, AM04, ACW12, Bar12b, BGR10, BTG12, CL18b, CS14, DLY16, DN97, DW15a, FL11, Fra98, GS16, HLHF13, LCL18, LD04, MC05, PF12, PM03, PRM09, Rag95, RP18, Ros06a, Tan93, WTS94, Wtr93, YR98, Zhm13].

Gauss-Kinetic [LXL11, Xu99].

Gaseous [BCM15a, CGK13, CF07, LL98a, LXL11, NBA+14, PL06, SMZ18, Ste11, TPW09, Xu99, YHS07, LL94, SRCG93].

Gas-Kinetic [LXL11, Xu99].

Gaussian-type [MC05, Tan93].

GCV [HZ10].

Gegenbauer [GJ05, Jac03, Kei09].

Gel [WGF08].

Gelation [EW00].

General [ABK11, AH09, ADK+98, BK06, BCR99, BB06, Bö07, CS99, CG05, CGG07, CCA03, CS10c, DO11, FL08, GHHH17, GW15, HR96, HV01, HDZ16, Hun95, KL15, KL94, KKS13, KHE07, KH+14, LCD14, LSC03, wLX00, OST11, PDA09, QZZ14, RK07, Saa96, Sz99, SS99, TGS08, Vas10, Wat04, WZSL12, XT16, Xia13, XZB11, Zen16, ZV05, ZSB16, WTS94].

General-Form [KHE07].

Generalised [Kas95].

Generalized [AOR18, APB18, BS05d, BL09, Bt08, BZ15, BCH12, BGR10, CC16, CC09, CC12b, CBNO2, yCWHJ12, CS17, CP17, DB98, DZ15, DF10, EHL05, FCF14, FCC10, GH13, GK00, GN14, GR02, GLMN15, GY02].
Gradient-Weighted
[CM98a, CM98b, Kup00]. Gradients [CJ99, GRPG01, NR98, Not00a, PF12, RN95].
Grain [KLT06, Man99]. Grain-Size [Man99]. Grained [BD012, But13, CP15a, WSA16].
Graining [AKPRB08]. Gram [GL03, Ste08]. Gramian-Based [BB08a].
Grammian [BB08a]. Grandchild [DT95]. granularities [BME93, BEM94]. GRAPE [NKTY08].
Graph [BLV17, BTY08, CCS97, FFS07, GKM+17, GS05, HL95, HS06c, KPPS14, LT09, LB12, MC09, NN17, OKLS15, Sch10, VSS14, WLZ18, WZSL12, JP93].
Graph-based [FFS07]. Graphic [WHCX13]. Graphics [BBFJ16, KMSM14, Nov15].
Graphs [Ash95, CS11, ES18b, FMS17, KK98, KPC¸A12, KPP+14, KV13, OWO14].
Grassmann [DS96, DH16]. Grassmannians [SL10]. Gravitation [TKK16].
Gravitational [LXL11]. Gravity [CK15, LR07, Pet93]. Greedy [BW18, Lin16, MS07b, MS07a, MS13, ZW16].
Greeks [KKS08, WWH17]. Green [Bur97, EHL05, ZZ18]. Greenberg [Ah96].
Gremban [FMS17]. Grid [AT17, AG17b, BACF08, Ber95a, BvW09, CWX15, Cj05a, DF10, DFL+12, FL97, Fer98, GI17, GV13, GKT09, GR05b, GC16b, HKE+13, HHLs15, HBL05, HS94, ILK05, Jam98, Knu96, KR00, LMPQ03, Lem16, LJJ98, MS07a, MK08, MY18, NNRW09, PCFN16, Pet99a, Pup99, ROM18, SP03, SY10b, SY12, TT06, WL11, WHCX13, WLZ18, W001, Wu18, XBC96, Xu94, Yav98, ABCM97, Atk94, TV03, VBT99, CP13, NJ14, SAB14, ZTRK14, ZNX14].
Grid-Based [HKF+13]. Grid-Free [HKF+13]. Grid-Multipole [Ber95a].
Grid-Particle [CP13]. Grids [ABBMB98a, ABBMB98b, ADR14, AD06, BGOD08, BH12, Bit99, BL05, BKS98, CH94, CKV99, DFQ14, DMBB10, EZ11, FS14, FUNB18, FEM08, Gär09, GL09, GMSB16, GZW18, GOV06, Hen05b, Hen06, HH11, KH00, K12b, LE10, LO14, LDM00, Mac98, MV09, Mau95, NX12, PZZB15, Pet99b, RT01, RW01, RSHK11, SR16, SN16, TW05, TC12, Wan01, WM11, WK03, WPGR13, Wu99, Yam02, YPHH17, YYY11, ZG16, ZF09, Zic12, bZOW07, BZ96, Pet93].
GRINS [BS16a]. Gross [DK10, DP17].
Ground [BD04, BL08a, DP17, VS17]. Ground-State [VS17]. Groundwater [JKKM01].
Groups [Mit08]. Growing [TV06, FFS13]. Growth [BHV05, Bo13, BCG+10, CS94, KLT06, KW10b].
GRP [WT16]. Guaranteed [CC06, CC11, LC05a, LC08, NN12, Wal13].
h [ST98]. Hadamard [KP17].
Haemodynamics [CDFQ11]. Hagedorn [FGL09]. Half [DT00, GHTW00, LK17, NN05].
Half-Quadratic [NN05]. Half-Space [DT00]. Half-Staggered [GHTW00].
Halftoning [GPS12]. Hamilton [ABg09, BFS16, BHT11, BL03c, CCFP12, CCF14, CC16, CFR05, GI99, HW13, HS99c, HJX15, JP00, K18, KN01, LNS06, LT00, LPS13, MN07, MK00, RR98, TW05, ZS03].
Hamiltonian [AR99, BCF01, Ben01, BB05, BL07b, CBG16, JWH08, KP12a, MW01, PM16].
Hamiltonian/Hamiltonian [MV01]. Hamiltonians [GLQ18, JWH08, SH01].
Hammerstein [KNN12]. Hand [ARMNW10, BCC198, CFL+13, CB98, HR05, KMR01, LN04, MN11, SG95, S0o16, SO10, CW97]. Hanging [ZMS10]. Hankel [KG18]. Hard [BL07b, BL08b, dMGF17, KK13, TW13a, TW95]. Hard-Sphere [BL07b]. Hardware [SW15]. Hardy
Harmonic [AA02, BB10, BHNP07, CGG+14, CWZ07, CHMR10, DLTZ06, EDGL12, HY14, JN10, MMT15, MZ94, OR18, PL12, RL10, RGG06, RT05, VK15, VX16, Xue16, LX16b]. 
Harmonics [FF05]. 
Hartree [KKF11]. 
Hash [CRR18, RNR13, TAHR15]. 
Hash-Based [RNR13]. 
Hastings [Wal14]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
HDG [BT16, CSS12, MTBT17]. 
Head [WKM+07]. 
Having [JW05].
WMC12, WBTG18, WSK99, Wen08, Wen10, Win06, WRS17, WSX17, XB16, XQX15, XH05, YCS16, ZNZ15, ZS03, ZLS12, ZSB16, Zha18, ZFZ14, ZLTA15, ZLJ96, Zin00, bZOW07, vdHCDD15, BSMM16, BY93.

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

**High-Dimensional** [BTWG08, CL18b, GH14, GC16b, HJ07, JK07, KK18, MXYB16, NJ14, PVK16, RW07, SY10b, SY12, Sma04, Ste16, WS05, bZOW07, vdHCDD15].

**High-Fidelity** [NKM10].

**High-Field** [GV16].

**High-Frequency** [BER17, KK02b, ZNZ16].

**High-Level** [FHFR13].

**High-Order** [ADR14, AHT12, ADGM98, ABIGG16, ADK +18, BT06, BPR99, BBD16, BZ15, BLR14, BTT13, CS18, CGV18, CMM00, CDF18, CM010, CFJT18, DW97a, DW98, DKR12, DKM14b, GH07, GM17, GM14a, GM15b, GN07, HHT03, HRT13, Hen06, ISG15, JLZ17, KP09a, KL05, KPL13, KW16, LO11, LL00, MC10, NS06, OD17, Ob07, OR18, PDA09, PJ96, QS18, RKLN07, RMC12, Ros05a, Say15, SC98, Str99, SJD14, TM14, TPB17, VB07, WMC12, WSK99, XH05, ZS03, ZFZ14, CSS93b, LSM93].

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

**High-Resolution** [BAFO00, CSG00, FM07, HBL05, Kup98, LD12, LFB13, LOL13, LT00, PL06, Ros06b, BSMM16].

**high-Reynolds** [BY93].

**Higher** [AABM13, AL97, BCR11, BM11, CG07, DFS17, DS14, DGP18, DS97, GMvdV18, ILK05, Kye12, Lie10, Lin06, LD04, PWF18, Pem93, PRM97, RRR05, VVM12, WGT14, XH15, YSS07, dVM08, ZMC94].

**Higher-Dimensional** [DFS17, LD04].

**Higher-Index** [AL97, PRM97].

**Higher-Order** [AABM13, BCR11, DGP18, GMvdV18, ILK05, Kye12, PWF18, VVM12, YSS07, dVM08, Pem93, ZMC94].

**Highly** [AKT16, BMP14, BHT00, CSS09, GH99, HA01, HW14a, HMN +13, Ket08, KC16, KR12b, OGO16, RSG17, Sch08, Vil14, YP98].

**Hilbert** [ZK14c, AE95, TY08].

**Hilliard** [GHMY18, KW07, BS15b].

**Historical** [CRS +18].

**HITS** [FLM +05].

**HLLC** [BCLC97, Gur04, Pe18].

**HLLC-Type** [Gur04].

**Hodge** [GH99].

**Hodgkin** [BN13].

**Hole** [Pet99b].

**Hole-Cutting** [Pet99b].

**Holm** [BAFF00, CCSS03, FM07, HBL05, Kup98, LD12, LFB13, LOL13, LT00, PL06, Ros06b, BSMM16].

**Holonomic** [KM11].

**Homoclinic** [LMR97, LCH99].

**Homogeneous** [YZ07, YZ08, GM17].

**Homogenization** [AB17, CC16, Kna98].

**Homology** [PSKG13].

**HPS** [LZ99a, Oet99, ZLG98, ZFwCW15, LL93].

**Hopf** [EMSW12, GM96, MCJN94, WAS94].

**Hopfield** [W89a].

**Horner** [SVB16].

**Householder** [DHHR09, MOHvdG17].

**HPC** [AKK14, GKK10].

**HQR** [MOHvdG17].

**HSS** [GLR +16].

**HSS-Structured** [GLR +16].

**Huber** [HW99, RSNR17].

**Hughes** [GM13].

**Hull** [AP01, Gre03].

**Human** [WIOH08].

**Hunter** [XS08].

**Hutchinson** [Che16].

**Huxley** [BN13].

**Huxley-like** [BN13].

**Hybrid** [AG18, Alp99, BB13, BC10, BC06, BCSS14, BBB16, CP13, CDF18, CLL13, CP15b, CS17, CDN16, CGD11, DW98, DP10, DGLW16, FR15, FS12, GJXL16, GH07, GR5 +15, Gon15, GKK10, HEGH14, JWH08, JP14, Kar96, KK02a, KSB11, Ko04, LW12a, MRT00, PEdD12, RT10, RVA17, ST17a, TTM08, VTD12, WKKP13, WS15, ZH09, vdHCDD15, FS13].

**Hybridizable** [CDG +09, CS16].

**Hydraulic** [SBK13].

**Hydro** [LXK08].

**Hydro-Elasto-Plastic** [LXK08].

**Hydrodynamic** [CZY17, GSYW18, GZW18, HNS08, LXL11, OB08, ZYLW16].

**Hydrodynamical** [ANP00, BI09].

**Hydrodynamics** [AT17, ADK +18, DW97b, DRR12, Gon15, WAS16, WT16].

**Hydrogen** [VS17].
Hydrostatic [ABB+04, BSA13].
Hyperbolic [AM18, AH09, AD06, AGH00, BLH02, BF16, BBSW94, BPR99, Bjo95, BR09, BPR13, Bur14, CPP12, CEC12, CLL13, CK94, DM13a, DMMO04, DH95, DRFP07, DGLW16, DS16, DBSR17, DB07, FS05, GvdV17, GB12, GSW17, GS00, GSPY17, GW00, HH02, HK17, Hol99, HS01a, IT09a, JT98, JW05, KPL13, KNP01, KPP07, KPW17, LPR02, LLLX16, LSZ17, LMMW04, Mar94, Nor07, RSW10, RSA05, SL11, ST17a, Ser06, SMR01, SJD14, TW12, Tor12, TW95, Van95, Vil09, WC03, QZ17, dLRT09, Pem93, LD16].
Hyperbolic-Elliptic [CCER12].
Hyperbolic-Parabolic [AH09].
Hyperbolic-Type [GW00].
Hyperbolization [TM14].
Hypercube [BME93, BEM94, CG93].
Hyperelastic [BM10b, BMDO16, CBF17, DK03, FGMP13, FGMP14b, FK00b, GY06, Giv12, JP01, KP06a, KLJ10, LHL12, LL97, LL03a, LP04, MR18, TLLK09, TP09, VP10, WFAP15, XW05, FGMP14a].
Impact
Impedance

Imperfect

Implementation

Implementations

Implicit

Implicit-Explicit

Implicit-Solvent

Implicit/Explicit

Importance

Imposed

Improved

Improved-Quality

Improvement

Improving

Inaccuracies

Incompressible

Incorporate

Incorporating

Incremental

Indefinite

Indefinite

Independent

Index

Index-Aware

Indicators

Indices
Indirect [CGR14]. Induce [SvG10a]. Induced [CC98, DMM+16, Kla98a, KWW13, LRP07, LP08, NG18, SE16]. Inductance [MS07c]. Induction [HS99a]. Industrial [ERSZ17]. Inequalities [BW96]. Inequality [BL07b, KB08, KWW13, LRP07, SWW08]. Inertia [CP95, LRP07, SWW08]. Inertia-Gravity [LRP07]. Inertia-Revealing [SWW08]. Inertial [BRR18, WS95, RST93]. Inexact [BN05, BRR18, BVW03, CK02, CL11, CSW10, EV13, FSvD98a, GY99, GRMS09, GHKS14, HYC16, KV00, KHrB0W14, LOSZ07, LK15, NWY11, SBB07, SS03, SV01, Wic17, YDF97, Car93, EW96]. Inextensible [LHL12]. Information [CLNZ16, DGS08, EBSS+11, GRT05, GKR16, KdS05, PVK16, Car93]. Inherent [KW10a]. Inhomogeneous [ABBM98a, ABBM98b, FDS13, ZCZ04, ZB12]. Initial [BHP98, CGAD95, Cas05, CV94, DKO12, FS02, For06, GG13, HJ18b, IM97, LV07, LK98, Pat97, Rán93, Sar97]. Initial-Value [GG13]. Initialization [FLM+05, GB98]. Injection [SS95]. Inner [EMN17, GGGL10, GY99, OKdsG17, Won16, Saa93]. Inner-Outer [GGGL10, GY99, OKdsG17, Saa93]. Innovations [Kee97]. Input [AA14, BTW08]. Inputs [CJGX15, JLP18, XH05]. Insect [EKSS16]. Insertion [CC12b]. Instabilities [CSS09, MIS03]. Instability [LP04, Mat95]. Stationary [And17]. instructions [Goe97]. Insulators [ACdS+11]. Integer [JF16]. Integral [AHK+17, AL99a, AT07, AC95, AC97, AC98, BHK14, BQR18, BV98, BIVS00, BS06a, CDY07a, C03a, CP05, CP07, CCA03, CCCC18, C18, CMMV05, D011, DD13, Du16, G18, GPK04, G98, HW15, HO18, HS05b, Hel11, HJ18c, HSZ12, HS99b, HW09, HV07, JVG12, KX96, KL13a, LS99, LL11, MG11, NGW94, Nas09, NAS13, N99, PRM09, Rah00, RU01, R06a, ST98, TW03, VPP05, XEG06, XZ11, YCZ13, YR98, ZB12, iW11, ABCR93, Atk94]. Integrals [BT13, BD99a, Car07, EJ08, GKNW18, GKKb, Inv02, ISS06, KS13, LS12b, Li10, LW16, PDA09, Wen08, Wen10, Yun03, YK03]. Integrate [BS15a]. Integrated [IT14]. Integration [BCR99, BL07b, BV09, GKM08, SW09, CK06, DEP11, Eb06, FFK+14, G07a, GH18, GM98, GC16a, GS02a, HS97, JSPC97, KPK12a, KKKN18, LS12a, LL03b, LD04, Man05, Mcl95, Mic01, Mis01, PB14, Pat97, PVC17, P12b, PP12c, RM15, Sk0e0, V115, WZ14, Yun03, ZS14, AGC96, Rán93]. Integrator [BDZ13, BLR09, BV16, Cas05, EL18, GG13, KBG18, KL00b]. Integrators [AB16a, AMH11, BB05, BCS14, COR13, CMO10, DMD+12, FMYT16, HLS98, Jahn04, LW16, MW08a, MMV13, SNS97, Vi15, CSS93a, LMS97]. Integro [AH18, SE11, ZV05]. Integro-Differential [SE11, AH18, ZV05]. Integrodifferential [MSW05, Win01]. Intensity [MR17]. Intensity-Preserving [MR17]. Interact [Men94]. Interacting [KKP14]. Interaction [ACF09, BQQ08, BC10, BB15a, CDF11, FUN18, FGS14, FKTW10, Gu93, HDB08, KV05, LQR12, MKWG15, NV08, ...
PVV11, RR98, RW13, ZVF18, vBdB05.  
**Interactions** [AKPRB08, DW97a, GGM01].  
**Interactive** [DTT+16].  
**Interconnecting** [LOSZ07].  
**Interest** [GV07b, LQX14, MNvST13, ZBFN17].  
**Interface** [AL02, AC04, AC05, BMDQ16, BP13a, BFSN08, CFGM11, DL17, DQQ13, DK03, ES17, FKQS17, FK00b, GGLT00, GGG02, HLM15, HCRT13, HBSC97, JW05, JLY08, KMW99, KGR16, KLT16, KS15b, LLH12, LL03a, LI01, LWCL03, LD05, MR18, Mu99, NKM10, QS14, QSV06, SSVW17, SF99, TLLK09, Wan04, WCHZ14, XW05, ZD09, ZF14, ZLY18].  
**Interface-Preserving** [SF99].  
**Interface-Strip** [QSV06].  
**Interface-Type** [JW05].  
**Interface/Multigrid** [AL02].  
**Interfaces** [CG99, KBP17, MJR05, MK96, MRS16].  
**Interfacial** [HM98, MR18, SF99].  
**Interior** [ACCO00, BHT09, BB08b, BCL99, CMS17, CSW10, CFM98, rFS12, GvdV17, GHKS14, KM16, Pla98, PB3+96, RG07, RN14, SVX15, TK13, VK15, WWY11, dMHJM00].  
**Interior-Point** [ACCO00, CSW10, CFM98, GHKS14, Pla98, PB3+96].  
**Intermediate** [Pat97].  
**Internal** [DQQ13, Hwa07].  
**Interpolant** [EM99, FM12].  
**Interpolating** [LPS10].  
**Interpolative** [LY17].  
**Interpolatory** [BBBG11, GSW13, dSGK15].  
**Interpretation** [BGMW17].  
**Interpreting** [SS10b].  
**Intersection** [LV08b].  
**Interval** [BDMFS10, CGS02, GCB04, Kea97, McL12, SV03, Yun03, Jam96].  
**Interweaving** [MSB15].  
**Introduction** [Elm98].  
**Intrusive** [GLL14, GLMN15].  
**Invariance** [BB05].  
**Inversion** [BP12, BDF08, BV16, BDE08, BBK06, Chr09, DLY16, DFF00, DB94, EL01, EL03, FD03, GHS17, GHN18, HKM97, LLD09, LSU11, LX16a, VP11, YJ18].  
**Invariants** [CHAMR06, SBS09].  
**Inverse-Based** [BS05f].  
**Inverse** [AV08a, AMH12, APSG14, APSG16, AS18, AVBTG17, AA13, ADL12, AHDK14, BCS07, Ban08a, BL03a, BSHL14, BC06, BK08, BMT96, BT98, BTO0a, BCT00, BBF16, Bol3b, BS05f, BT01, BGR16, BDR18, BBR08, BTHG12, BTGMS13, BGMW17, BJW18b, BJW18a, BH14b, CDGS05, CGB12, CS98, Cho00, CDY07b, CN10, CCO11, CEO11, CS17, CGMO0b, CHM02, CPD17, DSZ13, EMSW12, FWA+11, GSO17, GNL14, GY02, GS98b, GHR12, GHR13, GMS18, HC05, HCRT13, HP94, Hws94, JFG15, JKM14, LLZ08, LM14a, LZ17b, LWG10, LNC05, MWBG12, MZ94, NP10, NRS18, OGO16, PVV11, PMSG14, RkvDA14, RCC18, SSW18, SCW+15, SWC+17, SLO13, TS11, TBF14, TTY16, WZ03, WBS+17, WBTG18, XYGO01, XK08, YG15, YBH15, ZN16, ZGA10, CS97, Nan93, Tre97, MG09].  
**Invert** [BT99, BGMR01, GH97, HWS05, KRT16].  
**Investigate** [GGM01, GMV99, Wei99].
Investigation [Lan10, PBJ96].
Investigations [LL00].
Inviscid [ABC00, FL02, In99, LH00, PM15].
Involving [AOR18, CG18, FF05, KP09a, PDA09, RKvdDA14, SSW18].
Ion [GST99].
Ionic [XJS13].
Ions [GJLX16].
iPSC [Rot96].
iPSC/860 [Rot96].
IRBL [BCR03].
Irregular [BOPGF06, ILK05, JZ13, KK98, SKF18, SV03, WL04].
Irregularly [Har11, PYSG13].
Isaacs [BHT11, HW13].
Isentropic [Egg18].
Island [ABM13, LL11].
Islands [BM95b].
Iso [YZ08, YZ07].
Iso-Homogeneous [YZ07].
Isogeometric [BPS14a, CDPC13, HLT16, PMCA15, ST16a, dVPS17].
Isometry [BBk06].
Isometry-Invariant [BBk06].
Isoperimetric [GS05].
Isosurfaces [Wal13].
Isotropic [CMM07, GLQ16, JLY08, KR14, MMY96].
Issue [Elm98, Elm00, GJLX16, JKR08, Tum10, Vas07].
Issues [DG98, FFMT96, HR05, Wan07a].
Iterants [BM95b].
Iterated [BL08b].
Iteration [AMM10, AEFS17, AKF15, AP99, BBGS13, Bog14, BGH13, CGL13, DH95, DECO5, DJLZ96, EE001, EMSW12, EN08, GGL10, GW98, GY99, Gu15, GD07, HHLW15, JNM14, LM15, LY13, LR98, SQ002, TY00, Ver96, WMUZ13, YBH15, YP98, vNLB04, Atk94, CGP93, LZ94, TT96b, Ver94, vd97].
Iteration-Free [Bog94].
Iterations [BDE08, CS98, Fer98, GPP95, KMT98, OS98, PL03, ES96, NP94].
Iterative [BHN07, BGL08, BG10, BCC15, BG17, BC99, BMMT14, BC08, BC09b, BNF13, CJI11, CH17, CH18, CMK11, CIN13, CN10, CS17, CDPC13, CRV13, DW97b, DW98, Dax00, DS97, DJ07, Elm98, Elm90, FFMT96, FS01, FS11, FJP11, FK13, GH13, GRTO5, dMGF17, GV98, GHS15, Gr194, GO00, GrM10, GS97, GP96, HHRV93, Hg00, HW01, HS99b, HD15, HK95, JW08, JSV10, KR12a, KM98, LVWW03, LK93, LCB07, LCN14, LLX15, LY98, LCJ96, LGH13, MS07c, MKSG10, MK00, MS06b, MPW18, MSM14, MG12, MCI94, MDG18, MTBT17, NKLW94, Nat98, NAC15, NFFP18, PNW16, PS13, PW98, PRR05, PF94, PR96, RW11, RH09, RV10, Rud94, SS98, SG11, ST17b, SG95, Sim07, SH14, SC98, Sun95, TET10, TW13a, TTL12, UA07, UEE12, Vas07, VW94].
Iterative [Vo96, WPL13, WX99, WNC08, WC17, Yan94, ZW94, vDVY00, Bia94, CN93, DS96, Lie99, MM93, PCD06, SM93].
Iteratively [BM11, Lan10, RVA17].
IV [She99, ZLBC03].
IV/MD [ZLBC03].
IVP [vd97].
J [BEM94].
Jacobi [BHT11, CCFP12, CCF14, HW13, KK18, Abg90, AH04, BFS16, BL03c, CC16, CFI95, Drm97, FSvdV98b, Gt94, Gl99, HT13a, HL10, Hoc01, HS99, HJX15, HHLW15, JP00, KNP01, LNSZ06, LT00, LPS13, MN07, MK00, NvdP00, Nov15, RO18, RZ15, SB98, TW05, YDF97, ZS03].
Jacobian [AM+94, CV98, GJP14, Knu96, KR00, SBN11].
Jacobian-Weighted [Knu96].
Jacobians [PT08, TB99].
Jet [BLGL11].
Jets [PL06].
jInv [RTH17].
Jointly [Bar12b].
Jordan [Aru12].
Joseph [HLLM15].
Journey [SvdGP16].
Julia [RTH17].
Jump [AM05, BMD016, CH08a, KL11, Lay06, LZ16, MEHL16, Toi08, Wan04, XW05, dFL05].
Jump-Diffusion [AM05, CH08a, KL11, Toi08].
Jumps [CGM00a].
Jumps [DMR17, Kaw15, Wel17].
Justification [Li03].

Kaczmarz [BW18, DHN17, HNR17].
Kadomtsev [KR11].
Kalman [KK16, LTT16, LM14b, NRS18].
Kansa [KCL16].
Kantorovich [DF10].
Karhunen [CML+18a, SA97, SAY03].
Kármán [CC97, CGM00a, DP03].
Kernel
[AG10, BzCS11, CP03a, Che13, CWA14, CL18c, GLS13, ILW17, KS18, MXB15, MXYB16, MR07, Nas09, RLC08, SRS12, TY08, XKWY08]. **Kernel-Based** [AG10, BzCS11, CL18c, GLS13, ILW17].

**Kernel-Independent** [MXB15, MR07].

**Kernels** [ABP18, BV98, EY07, GHHH17, GR02, GP18, LCD14, Pla15, PS01, WMSG09, DR93a, Goe97].

**Kinds** [CP03a, CP05, NKLW94, ZCP06, ABCR93, Atk94].

**Kinematic** [BMV13, PDC99].

**Kinetic** [BK18, CL18a, CHL16a, CHL16b, DP10, FY14, FR15, GV16, GKR16, GC16b, Jin99, Kla98a, LS12a, LS13a, LM08, LM12, LXL11, WMC11, Xu99, YJ13, YHS07, BPR13].

**Kinetical** [Dor98].

**Kinetical-Consistent** [Dor98].

**Kinetics** [CE16, IP06, YS16, Ver94].

**Kirchhoff** [GSV18].

**KKT** [AVBTG17].

**KL** [LZ04].

**KL-Based** [LZ04].

**Klein** [BDZ13].

**Knot** [BB15c].

**Knots** [PS03].

**Kogbetliantz** [G"ot94].

**Kohn** [DLY17, LY13, YMW07].

**Kou** [Toi08].

**Kriging** [CDW14a, CDW14b].

**Kronecker** [BL03b, BD05, DO15, FT03, Ull10].

**Krylov** [BG05a, BG05b, CGK+08, CC12a, MRS09, PBC05, Ruh98, AA02, BV15, BB15a, BS15a, BLS14, BG05a, BHP94, CR16, CKD13, CCSY98, CPS11, CS14, DKZ09, DLZ10, DR13, EEE01, EN08, EN09, GW17, GY02, GOS12a, GDV09, GMVM14, HL08, JMM10, KL15, KR99, KVMK01, LMR15, LMT18, LL08, LWZ13, LT14, MR17, MB17, NG18, OkdSG17, OW00, PS02, PF12, PS01, PT01, SBK13, SS16, SW01, ST94, SS03, Sool16, TE07, Tor12, TS14, VMM13, Wal99, Wei94, ZSY15, vdVY00].

**Kullback** [PSSW15].

**Kuramoto** [APS12].

**Kutta** [CSS93b, Cas05, VS04, Zhi11, AGC96, AM17, AGH00, BM17b, BR09, BPR13, BBM+15, BRW10, CHAMR06, CGAD95, EM96, GMM15, HR09, Jay98, Ket08, KCB17, MNS07, McL07, MRS14, OS98, PT99, PPR05, PKD13, Pat97, QS05a, QS05b, RM08b, SS93a, TAV02, TLT12, TP99, VV05].

**Kutta-Based** [GMM15].

**Kutta-type** [AM17].

**Label** [SMR16].

**Lack** [BCC198].

**Lag** [PT99].

**Lagrange** [PBC05, BS15a, BLS14, BG05a, BG05b, CC12a, GLL01, IT09b, KL15, KMW99, KW00, LNS15, YHC16].

**Lagrangian** [BW11, AT17, AS16, AVBTG17, And17, AHH12, AHR12, BMTZ13, BSM16, BO06, BP13a, BF14, BCV13, CPH14, CTB15, CF07, CJO16, DKR12, FCR93, FL08, GT06, GSY17, HM10a, HVK18, Kor15, LL02, Lay03, LL94, LH00, MAB07, MR17, MB17, NS10, OB08, Ros05b, RLM+00, WLE+00, WZET13, Wic17, dFL05].

**Lagrangian-Based** [BW11, BO06].

**Lagrangian-Remap** [BCV13].

**Laguerre** [BS05c, BL09, DLK96, LZ99b, Nik00].

**LAMG** [LB12].

**Laminar** [JMM01].

**Laminated** [Li03].

**LAMMPS** [WSA16].

**Lanczos** [ARMNW10, ADRS95, BCR03, BR05a, BF01, CKD13, DGK98, FS12, FGN93, GH15a, GJ17, GY94, JN10, LXY+16, MS12, MN11, Ng00, RG98, SZ00, Ste02, YC99, ZS18, vdEH05].

**Lanczos-Based** [CKD13].

**Lanczos-Type** [RG98].

**Land** [XX08].

**Landau** [AB16a, AHK+17, BBP13, DJT08, GS16, LM05b, Mu97, MDC98, NR98].

**Landweber** [BDE08].

**Langevin** [AWA+18, KM11].

**LAPACK** [AMT10, DMPV08].

**Laplace** [BS94, Bar14, BW15, BSS17, CK03, Che13, ED95, Nak98, OK13, Pet01, WLZ18, Wei99, YCZ13].

**Laplacian** [AN17, AG18, AO17, BLV17, BI00, CQZ17, CS16, GGM01, LB12, NN17, XEG06, vGEV07].

**Laplacians** [SXS17].

**Large** [AVBTG17, AL07, BCR03, BS05a, BW18, BST08, Ban08a, BS05b, BOR97, BSSW13, BT03c, BHT09, BPSV15, BDF08, BY08,
BS99b, BCL99, BTWG08, BTGH12, CFR05, CDGS05, CGK13, CCQ16, CN10, CP15b, CS17, CG17, CSW10, CDFM98, DDMQ18, DS00, DD00, DJT08, DLP05, DZX09, EAS08, EPE05, FWA+11, FSvdV98a, FB95, FGH+08, GLSTV16, Gug16, HMST11, HMAS17, HPS08, HLS98, Ho04, HL17, JS10, JZ13, Kus97, Lab05, LM00, LAG14, LT09, LWG10, LZ13b, LXdH16, MWBG12, MS04, MW01, NNRW09, NvdP00, OKF14, PS13, Pen00, RS02, RMD08, RM08a, RS15, Ruh98, SBR06, SWW08, SWB16, ST17a, Sim07, SC02, SvG08, SVX15, Tor12, TS14, WPL+13, WM05, WT01, WS15, WRS17, Xia13, Xue18, YPN+01, YGB+05, YMM14, ZS15, ZCC+16, AMB+94, BHP94, Dax93, DLG97, HHLL00, HYC15, HYC16, JK00, LL03b, SR16, SBX+08, WS06, Wanye7b, Eit96].

**Large** [HR16]. **Large-Eddy** [BST08, EAS08]. **Large-Particle** [SC02]. **Large-Scale** [AVBTG17, BCR03, BS05a, Ban08a, BSSW13, BHT09, BHY08, BCL99, BTWG08, BTGH12, CN10, CP15b, CS17, CSW10, DDMQ18, FWA+11, FB95, HMST11, HPS08, LT09, LWG10, MWBG12, OKF14, PS13, RS02, RM08a, SBR06, SWW08, SWB16, Sim07, SVX15, WM05, WT01, WRS17, Xia13, Xue18, YPN+01, YGB+05, YMM14, ZS15, ZCC+16, BHP94, ST14, TW93].

**Largest** [HR16]. **Laser** [CBK18]. **Latency** [GAMV13]. **Latent** [ZS99]. **Lattice** [BS08, BYK05, CKN06, DSB99, Del14, FKK+14, HHSW11, HHLL00, HYC15, HYC16, JK00, LL03b, SR16, SBX+08, WS06, Wanye7b, Eit96]. **Lattices** [SLO13].

**Launch** [EHWW00]. **Law** [AGH00, CHR02, FMR06, GKG+04a, TW17].

**Lawrence** [DG99].

**Least** [NP17]. **Least-Squares** [AMM+11, AV14, ALMR17, AD15, AMT10, BGM13, BLM03, CP17, DMO04, DMO05, DG98, FNS11, GNYZ18, HLMM06, HLM+09, HY10, HY14, KMS15, LMMR00, LFB13, Lee14, LM15, LMM17, LRS02, LD11, MWY17, NP14, NP17, PE00, PP97, PBTB+15, QQQQP99, RDB16, ST16b, ST17b, Sco17, SX16b, St40, Str93, TIZ14, TBO10, Wat98, WPT17, X16, You94, YYWY18, ZCC+16, ZWZ+13, ZNX14, ten95, BR95, Dax93, NP96].

**Least-Degree** [NP17]. **Least-Squares-Based** [MWY17].

**Legendre** [BK00a, BMF12, Bog14, EJJ08, HT13a, HT14a, H14b, IBM01, She94, SWA02]. **Leibler** [PSWW15]. **Leja** [CKOR16, NJ14].

**Lemma** [CV94]. **Length** [MH16]. **Leslie** [CGGGS15]. **Level** [BC10, BP13a, BH11, Bre00, CDG03].
CGG07, CGL01, CDM+13, Cho09, CJ05b, DS00, DKPS17, EPV94, Fai03, FHFR13, FM07, HKR16, HHvR03, KKV13, KKP14, KL15, KS13, Lan98, LYLC17, MB17, MO00, MO10, NKM10, QL06, RS00, SF99, TKW08, Tu07, Vog16, WHL18, WWM03, Wen10, ZCl06, Cai93, NCV06. 

**Level-Set** [CDM+13, RS00]. 

**Levels** [ABB+16, RNR16]. 

**Levinson** [Str00a]. 

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

**Liapunov** [CCJ07]. 

**libMesh** [BS16a]. 

**Libraries** [DARG13]. 

**Library** [BS16a, MXYB16, NAC+15, PMCA15, RTR+16, ZS14]. 

**Lid** [TVV11]. 

**Lid-Driven** [TVV11]. 

**Lie** [MW08a, Mis01]. 

**Lifshitz** [BBP13, AB16a]. 

**Lifting** [SV03]. 

**Light** [GPZ17]. 

**Lighthill** [BCV13]. 

**Lighthouse** [JMNS16]. 

**Lightweight** [DKKP14]. 

**Like** [BGOD08, DMML05, KO99, KP11, WG00, WM11, ABCR93, BN13]. 

**Likelihood** [ACW12, TV98a, Zim13]. 

**likelihoods** [WTS94]. 

**Limit** [ACO98, BS18a, BCK16, BPR13, CDN16, CHL16a, CHL16b, DJT08, DLV17, DPE16, GKO05, JLY08, KSB11, Kla99, LS12a, LM08, ZD09]. 

**Limit-Cycle** [KSB11]. 

**Limitations** [RLG98]. 

**Limited** [BL03a, BKS16a, BGR16, BLNZ95, GGO95, KSB11, Kla99, LS12a, LM08, ZD09]. 

**Limited-Memory** [BRG16]. 

**Limiter** [AS06, JX13]. 

**Limiter-Free** [AS06]. 

**Limiters** [MB13, QSO5a, QSO5b, Ser06, ZW16]. 

**Limiting** [GB12, GNPT18]. 

**Limits** [GV16, XSO8]. 

**Line** [BD99a, HV96, LKO17, OS15, SV05b, YYY18, ZHDZ17, HHRV93]. 

**Line-Relaxation** [HV96]. 

**Line-Surface** [SV05b]. 

**Linear** [ARMNW10, ABS08a, APS14, A518, ABST13, AHT12, AF11, ABET+17, ABC08a, AC95, AD15, AKM+13, BGLY05, BW18, BS95, BDJ05, BCG18, BVG15, BDGS11, BL05, BHO95, BT98, BBKT15, BM101b, BHK14, BCCK16, BW96, Bre99, BC99, BCM03, BMMT14, BC08, BC09a, BK11, BEP98, CS09, CLMM00a, CLMM00b, CPW15, CGL+13, CB98, CCG07, CJJ11, CH17, CH18, CNP12, CS96, CN99, Che98, CGX15, CYZ17, CG10, CLN12, CF05, CHM02, CS10c, CPD17, CFM98, D’A00, DLY14, DB98, DH01, DHN17, DMM004, Ded10, Del14, DXXS18, DS14, ES18a, EMA10, EDOZ94, EGKS94, EPSU09, Ett16, FGMP13, FGMP14a, FGMP14b, FH06, FWA+11, FT03, FMR06, FG98, GG13, GHMY18, GvdV17, GNL14, GG03, GZYY18, GB98, GG05, GPA18, GSO30, GW00, HR05, HS06a, HAG00, HCRT13, HN06, HZ10, HG12]. 

**Linear** [BO04, HRS12, HSCTP04, JFG10, JZ13, JP08, Jou94, KAS95, KLR98, KZ00, KM18, KW00, KR06, Kra08, KSV16, KMRW97, LM00, LV98, Leec13b, LM08, LM17, LL08, LL09, LS17, LW12b, LK17, LXH16, LB12, LKB18, LCG96, LN04, MPS18, MKSG10, Mar09, MB02, Meu11, MW13, MN11, MGW00, Nat98, NP08, NMFP16, Ökt05, OD12, PNW16, PDH09, PDS+06, PSB+06, PAA99, PBJ+96, PBMSB12, QQQ099, Rah96, RG07, Roe98, RX18, RTR+16, SZ99, SS99, ST08, SBP04, ST16b, ST17b, Sco17, SX16b, Sma04, Smv97, BVG08, SSC+15, SCW+17, Sta94, SO10, Str93, Sun95, SSB08, SW10b, TT07, Ton94, VBT99, VM13, VK13, WLX+13, WM05, Wil09, WC17, XS17, Yan94, ZGA10, ZTBB18, Zha97, ZV05, ZS14, ZSYS15, ZSB16, ZG17, ZFHS15, ZTM+16, Zim14, ZJL95, Zim00, dLS05]. 

**linear** [AM95, Aty94, CV93, CW97, Fre93, JZ99, Kor93, LV94, LJ93, Lie93, Pol16, Rön93, WTS94, ZY05]. 

**Linear-Quadratic** [DD10, HN06, PMSB12, CV93]. 

**Linearization** [KT15, Slo02, vDvZvBd10a, vDvZvBd10b]. 

**Linearized** [BTGMS13, BT16, HG02, HNS08, HS00, Mu97, OB08, WY12, WY13]. 

**Linearly** [BBM+15, GL08, LST07]. 

**Lines** [CCC17, HRT13, KMT98, WY18, WH13].
Macro [JS10, LLS13, LM08, LM12, PV08].
Vir07, Wan97, WS15, Xia13, XC13, ZGA10, AMB94, BW93, CS97, Di95, FS96, FF94, FGN93, Gut93, Jin95, Lan93, May08, Nag93, NCV06, Tre93, Tre97, BM12. Matrix
[AKA13b, AA14, AMH11, AMH12, AMHR13, AMHR15, AM18, ADL+12, ACW12, AKM+14a, AD15, AVW13, ABB+16, BCT07, BSH16, BGM13, BS09, BF95, BK03, BC13, BGH13, Bru15, BG12, CKOR16, CA16, tVCAU10, Che16, CIZ16, CL08, CG11, DM16, DKG15, DN97, DHP17, DGB15b, DKG98, DCP11, EZ11, Elb06, EBSS+11, FHH18, FMYT16, FK00a, FSvdV98b, FS08, GH15a, GSO17, Gar97, GKM+17, GT94, GG94, GHS+15, GKN18, GCD18, GL10, GG95, Haa02, HW94, HR14, HR16, HK17, Hos94, ILW17, IL16, KR17, KT15, KAU18, KL94, KP11, Kna98, KR00, KRDL18, KHW+14, KV13, LV98, LPS10, LXH16, MV00, MKG10, MB99, Mat95, MDM15, MZWG16, Ng00, NRS18, OKLS15, OD12, PSS17, PV94, PV95, QQSvdG01, RO18, RX18, RN14, Ruh98, RCLO18, SDR15]. Matrix
[SvdGP16, SZ00, Sim07, SLO13, SQ002, TS11, TW3a, TPT+16, UA04, VSS14, WSZ14, WLL+15, WH09, YPHH17, YB09, Zha96, ZJX14, vVKA11, vDEH05, BR95, Jam96, Nat97, OA93, YL93]. Matrix-Dependent [Kna98]. Matrix-Free
[BGM13, FK00a, KRDL18, LXH16, vVKA11, ACW12, Bru15]. Matrix-Matrix
[AA14, BG12, GHS+15, GKN18]. Matrix-Vector
[AKA13b, KH94+14, KV13, MDM15, UA04, WH09]. Max
[GG94, GG95, HSTH18]. Max-Min
[GG94, GG95]. Max-Plus
[HSTH18]. Maximization [ZLWZ18]. Maximum
[ACW12, AW11, BI09, DG08, FH06, GY09, IMS09, JX13, LI01, LLLX16, LY14, RGG15, SY18, TV98a, WBTG18, XQ15, ZLS12, Zna13]. Maximum-Principle-Preserving [XQ15]. Maximum-Principle-Satisfying [LLXX16, LY14, ZLS12]. Maxwell
[APZ13, AA02, BB14, BGG+03, BHST08, BV09, CCG+14, CW07, CHMR10, DGGG09, DF99, DTYY18, EKSW15, EDGL12, ERSZ17, GMS18, Hen06, HH11, HTB+05, HY14, HHLW15, HHL15, JL05b, JZ00, LHL11, LX16b, McG95, MP94, MS12, MSV00, NHSS13, PS10a, PL12, PSC18, RMR15, RT01, RL10, RW01, RGG06, SSW18, ZCW10, ZZ18]. Maxwellian [Gos18]. May
[KHU96, RMB00, TW95]. MCMC
[Bar12a, FL18, MBWG12, PMSG14]. MCMC-Based [Bar12a]. 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, CN94, Don06, GDL14, Ho95, KS15b, LT16, MT97b, Ren15, RW06, VP14]. Mean-Field [KS17, LT16]. Mean-Square [MT97b, RW06]. Means
[AAB+15b, ABCP08]. Measure
[BGMW17, GSO4]. Measure-Theoretic
[BGMW17]. Measurement [CAB04]. Measurements
[GP16, HTH+16, KBV09, MS03, PDM10, RKvdDA14, vdDA12]. Measures
[BJW18a, Cao07, LCN14, PSSW15, RGOY10, WK06]. Measuring
[Hua05, Kaw15]. Mechanical
[AL99b, CSS10, HW90, RN14]. Mechanics
[BTB05, ES17, ES00, GRPG01, Lee13a]. Mechanism
[LL02]. Mechanisms
[HS16]. Media
[AE08, ABBM98a, ABBM98b, BA17, AD18b, BGS09, BC09b, BEM17, BKBT18, CHW17b, CDF18, CCC18, CDB13, CCH15, DL17, DLM16, FRH14, GM17, GY11, GP+14, GY17, GW04b, Hy14, HSSZ09, KK02b, LWW03, LE10, LOL13, LY08, LL15, LZ04, MJR05, PS10a, Sk02, TSTM08, WLE+00, WZET13, WPT17, YS16, ZT17, YGCP96]. Medial [JED10]. Median
[CSS97, Str93]. Medical
[HDB08]. Medium
[AHR12, CK07, DBC13, LHL11, LRGO17, SCC17].
Meets [MZWG16]. MEG [HCHS13]. Melnikov [XYZ05]. Melted [AHT17]. Membrane [DZ08, RR98]. Memory [AKK14, AAB+16, BBSV10, BDR+97, BT03c, BrtVC+10, BFJ00, BGR16, BLNZ95, DJ07, Gon15, GKK10, GKN18, HKR02, HWD02, KRDL18, LM99, LWZ13, LFLS08, McL12, PF94, PR96, Sta07, SM07, Sun96, Til15, TD99, VMV15, XXdH17, ZV05, NP93a]. Memory-Aware [AAB+16]. Memory-Efficient [GKN18, KRDL18]. Merge [Oli01]. Merging [GHS+15, GKN18, Ros97]. MESFET [BI09]. Mesh [AHK+17, AFMP15, AKM+13, ADM+15, BB17, BLH02, BBSW94, Ber98b, BVW03, BHR96, BW09, BH17, CHW99, CHR02, CPB13, Che94, CWL+14, CC06, CC09, CC12b, yCWHJ12, CLK18, CRR18, DPF15, DDGS16, DLTZ05, DLTZ06, FK00a, FR10, FCC10, FJP99, GVP06, GT98, GHTW00, GMT98, HMM08, HO15, HR07, HB97, HR99c, Hua05, HA08, IS17, JTZ08, JP97, Kmu01, LMKG16, LPR98, LC05a, LC08, LCL18, MMRN15, MN07, MH17, MCB18, MP08, MM07, Ok07, PFW18, PP05, Pol16, RL17, RH06, RWX07, SR18, SKF18, SL09a, SRF+18, SRM01, Tra95, WCO0, WH15, WCHZ14, XOMN10, YHQC12, ZJC12, ZAD+16, ZSD+10, Zie12, de 99, CC11]. Mesh-Adaptive [MH17]. Mesh-Free [yCWHJ12, SKF18]. Mesh-Independent [BVW03]. Mesh-to-Mesh [CRR18]. Meshes [AKS05, AD18b, AMP00, BB17, BBD16, BKS13, BH16, Ca95, CH09a, CDG17, CGZ09, CHW17a, CFJT18, CKRS07, DBSR17, EFH19, FCZE14, FCM12, GW15, GHH07, Go98, HI06, HG00, ISG15, JY96, JH12, KZ16, LNSZ06, Lr95, LTW18, MLL13, MB13, MTTV98, MKRK13, PABG11, RKL07, RL18, SB10, SV08a, Sha99, SY08, SY09, SV03, SC02, Tal15, TAHR15, TPT+16, VBT99, ZS03, ZMS10, ZP18, ZQ18, Ain96]. Meshfree [BM17a, COR13, COS06]. Meshing [BH00a, BL04a, HGP14]. Meshless [FPS13, Lin16, TPB17]. Mesoscale [BRK16, RG09, YC14]. Message [BS98]. Meta [TCCK18]. Meta-materials [TCCK18]. Metabolic [LNA+11]. Metallic [PS10a]. Metamaterials [CCC18, HLY13]. Metastable [Kue12]. Method [AB17, ABMR11, AG17b, AG17a, AG18, AD18a, AFF+15, APSG16, ALMR17, AA13, Ama98, ALJ99, AF11, ACC00, And17, AF15, ADK14, AP12, ABCP08, AH04, AH06, AW11, AHH12, AHR12, AP99, ACCP13, BA05, BS08, BCR03, BS05a, BGL06a, BW18, BMR10, BLMR02, BT03b, BO07, BHV05, BJO1, BS05c, BS09, BDZ13, BMTZ13, BS18a, BGOD08, BV03, BG10, BSHL14, BDGK18, BB10, Bar99, Bar05, BOF16, BRT07, BC06, BK08, BG98, BM01a, BEE18, BS09, BL04b, BMDO16, BPT+14, BM95a, BMT96, BCT00, BH12, BP13a, BL14, BPS13a, BM01h, BHK14, Bet08, BK04, BL14, BK00a, BFN17, Bje95, BT97, BCSS14, Bla03, BI09, BLGL11, BGH+03, BCCK16, BU15, BBD16, BBD+11, BCP15, BPR16, BB08b, BB03, BER17, BBMR03, BS96b, ACL99, BCA15, BTT13, Btu18, BOPGF06]. Method [BTGH12, BCM15b, BG13, BG04, BFSN08, CG18, CC16, CW07, CL10, CLW13, CY18, CL18a, CL18b, CLG+13, CH09a, CKOR16, CB08, CG99, CH02, CP04, CGL01, CCC17, CV15, CKQ14, CCS97, CCS98, CDH98, CGM99, CP13, CL03, CDF18, CW07, CCZ10, CM15, CHX15, CJY16, CCC18, CKXZ18, CL18c, CVK13, CPS11, Cho01, Cho09, Cho15, CILZ15, CIZ18, CDB13, CK07, CJK10, CB18, CDG+09, CS16, CGM00b, CHM02, CP95, CB17, CMSS06, Cor01, CVE13, CH11, CPD17, CND16, CRKS07, CFM98, DBC13, DY06, DM13a, DLZZ17, DK10, DFG15, DB98, De 12b, Ded10, DJT08, DLY16, DT95, Den97a, DLM16, DT00, DGK+16, Don06,
DG16, DHE13, DR13, DZ08, Du11, DW15b, DS16, DTYY18, DCP11, DGL\(^{+12}\), DGRZ15, DK03, EPR10, EKSW15, Egg18, EAS08, EEO01, EPE05, EKSS16, EVLW17, ES17, EP06, EIL\(^{+09}\). **Method**

[FGMP13, FGMP14a, FGMP14b, Fai03, FO08, Fel98, FDS13, FCZE14, For06, FW97, FN94, FL98, Fro12, FM07, FJP\(^{+11}\), FKW13, FK18, GJ17, GHHH17, GSO17, GJLX16, GV07a, GYZ11, GJP\(^{+14}\), GM14a, GR02, Giv12, GLO18, GY99, GVM99, GY02, GRMS09, GX15, GOM14, GOS12a, GH99, GKT90, GSO0, GS02a, GS02b, GSO0, GO09, GHKS14, GV09, Gug16, GC97, GX16b, GC16b, GC17b, GV17, GLW18, GN07, HM05, HMM07, HRT10, HG98, HJN17, HP14, HM98, HW14a, HR07, Haz08a, Haz08b, HLLM15, HZXC16, HR99a, HRT03, HKR16, HLV00, HBL05, HRT13, Hen05a, Hes98, HSZ12, HP94, HC95, HL10, Hoc01, HY08, HV95, HR99b, HQH\(^{+16}\), HB97, HY10, HS99c, HB7\(^{+05}\), HY14, HJX15, HS94].

**Method**

[HJMS07, HXB13, HLY13, HVC15, HLM16, IT09a, IK10, In99, Jac03, Jah10, Jam98, JP16, JMM10, JKM14, JMR17, JW08, JN10, JED10, JWH08, JK05, JG02, JL05b, JvGS13, JP01, JK00, KLV\(^{+16}\), KM11, KH14, KR17, KNN12, Kan03a, KMT98, KV05, KP06a, KP11, KO17, KP12b, Kla99, KW00, KL13a, KL05, KLY07, KS17, KP10, KR99, Kuy01, KM16, KS13, Kol99, KC16, KH18, KL13b, KLZ\(^{+06}\), Kra09, KP05, KP06b, KO13, KL11, LW12a, LHL12, LP11, LP13, Lan10, LSV17, LMRS15, L99, LSH17, LLP98, LMR98, LL02, Lay03, Lay06, Le 09, LS13a, LZ17a, LG97, LL03a, Lee10a, Lee13a, Lec14, LE17, Leth15, LCD15, LZ01, LZ02, LL08, LL09, Li10, LL11, LX14, LX15, LJ17, LN03, LP04, LY98, LZ13b, LC05a, LC08, LZK17, LJL98, LKX08, LS09, LX16a].

**Method**

[LYLC17, LTW18, LH00, LD05, LFBO08, LN04, LPP09, LD03, LX16b, LX16c, LS00, MR09, MR07, MR04, MRS04, MCT\(^{+05}\), MOSS17, MBWG12, MR07, MW03, MS06a, MR02, MCT15, MVB013, MG12, MO10, MTM08, MZ94, Moo00, MTV16, MS18a, Mu97, MWY17, MPS09, MSV00, MCV17, NN12, NN17, NAS13, NRQ13, NT18, NS06, NM13, NMA11, NvdP00, NNH99, NKM10, Obe13, OS15, OX17, OQRY18, OR18, PRS12, PTV08, PR09, PS10a, PKD13, PW12, PHJ11, PBWB14, PZZB15, PL12, PNP13, Pen00, PO08a, PT01, PEdD12, Pla98, Pol16, PvdVvG17, PS10b, Por01, PD15, Ph09, PbtT15, Pup99, PM15, QL06, QS05b, QS08b, RO18, RRR03, RRR05, RG13, RZ03, Rei13, RMC12, Ren15, RU01, RW01, RZTK\(^{+15}\), RV10, Ros06b, RX18, Rid94, RO12, RO15b, RS00].

**Method**

[RSA05, SB10, SB98, SS98, Sar98, SA99, Sch98, Sch94, SR16, Sch09, Sch13, SL09a, SY18, SM94, SBM07, SG95, Sim07, SS10b, Smi97, SK05, SC02, SSF16, SMR01, SAB14, Str00b, SL09b, SO09, SV01, TZ95, TKCC13, TKW08, TLLK09, TY00, TT06, TP09, TBF14, TPB17, UWWY15, VP10, VP14, VN03, VM13, VV05, VBT99, VK15, VYX16, VSBH99, VXCB16, Vog16, WS95, WX99, WLE\(^{+00}\), WLK06, WWY09, WMC11, WWY11, WB12, WY12, WCX13, WS14, WTGT18, War13, Wei99, WWH17, WPT17, Whi15, WM\(^{+07}\), WY13, WGF08, WS15, WFP15, WSX17, WS18, XEG06, XA99, Xie05, XKW98, XXH\(^{+17}\), XQ15, XS16, Xuf94, Xu04, XW05, XS08, XOMN10, Xue18, YCZ13, YDF97, YGB\(^{+05}\), YHQ12, Yan14, Yan18, YZ05, YD06, Yu95, YYWY18, YK03, ZK14b, ZK15, ZMK17, ZL98, ZN05, ZCK12, ZJ12].

**Method**

[ZRTK12, ZWH\(^{+14}\), ZF14, ZXJ14, ZTRK14, ZYSL15, ZD16, Zha18, ZS18, ZCP06, ZWZ\(^{+13}\), ZP18, ZLTA15, ZK96, ZFHS15, dVM08, iW11, vNLB04, vWB09, ABS96, ABCM97, AM95, ADRS95, BS94, Boe93,
Cai93, CW93, CPS94, DS96, EW96, FCR93, HG96, Hes97, HL97, Lam97, Li94, LCW95, Liu93, PCDB96, She94, She95, SS95, SS93c, ST96, Tan93, TV93, Yav93, ZMC94, CD13.

Methodologies [IHTR12, KB08].

Methodology [BC09a, CRS +18, TCCK18].

Methods [AE08, ABBM98a, ARMNW10, AC08, ACVZ12, AVZ13, AGI10, ABLs05, AMN15, AL02, AC05, AMVR17, AC08, ACVZ12, AVZ13, AGI10, ABBM98a, ARMNW10, AC08, ACVZ12, AVZ13, AGI10, ABLs05, AMN15, AL02, AC05, AMVR17, ABC +16, AGL10, AKAI3b, APvDG12, AB96, ABC00, AABM13, AM17, AAB +15b, AIL05, AW15, AGH13, AKM +14a, AHT17, AKT16, AS05, AA02, AKB14, AL07, AL99b, AHH06, ALZ14, BS03, BS07, BKGv16, BQQ08, BR05a, BGL05, BHN07, BN98a, BK16, BS05d, BBG04, BN00, Bas98, BvG15, BGG11, BN98b, BLB00, BzCS11, BGK15, BDO12, BBM11, BB15a, BB15b, BHT09, BS15a, BS16b, BS17, BM17b, BFK05, BG05a, BG05b, BCM05, BCM11, BKS16b, BR18, BF14, BZ15, BvW09, BLR14, BBM +15, BQR18, BS99b, BT13, BKMM10, BDK12, BMV05, BGSV15, BMV11, BMMT14, BD05, BRW10, BHR96, BOPGF06, BT16, BMV13, Burr13, Bur14, Bll07, CCF14, Cai95, CJKs01, CL11, CPW15, CGL +12. Methods [CHAMR06, CSS10, CPH14, CDG17, CGQ10, CZK15a, CPV95, Car07, CV07, CKD13, CRS +18, COS06, Cas97, Cas02, CZ10, tVÇA10, CFSZ08, CEHNO8, CV12, CS96, CCSY98, CGZ99, CN99, CW17, CHW17a, CHW17b, CC03, Che98, CKY98, CD02, CHMR10, CMK11, CLL13, CBN02, CLK18, CKV99, CS14, CH08b, CK98, CS17, CBWD15, CHH10, CM99, CFM96, CGG14b, CDW14a, CDW14b, CS10c, CK94, Cor98, CE16, Cc18, Csw14, DO11, DP98, DMM04, DMM05, DG98, DL17, DHJW08, DLTH05, DLTH06, DFRNP07, DFN12, DB94, DP10, DPS18, DTM05, DKR12, DGGG09, DS14, DF99, DGR +17, Du16, DK98, EKM94, EDGL12, EBR00, Elm98, Elm00, EF15, ES18a, EMM +99, Ema10, ELtHR00, EN09, EV13, EMT09, FT15, FK00a, FGM08, FR15, FKTW10, FS02, FK00b, FSM17, FMR06, FS12, FS13, FM99. Methods [FNNB05, GMMN02, GK12, GX16a, GZ16, GASSS98, GGL09, GKL11a, Gas13, GSS12, GHK14, GKO3, GHH07, GL08, GV12, GLQ16, GY05, GP18, GZW18, GJhM94, GKK07, GKS98, Grie14, GKO5, Gri94, Grie95, GM15, GSW13, GC97, GNZC17, GW04b, GM04, GVMM14, GP96, HKR02, HR05, HAG00, HMM17, HKF +13, HHE10, HW13, Han95, HH02, HM +13, HW14b, HNS08, HJ98, HJ18c, HS07, HT00, HLM06, HLM +09, HMR09, HL98, HV96, HECH14, HLP08, HJS18, HS01a, HS18, HK95, HKM97, HW09, HFL11, HGZ17, Huc08, HIIH18, HL03, IM97, IM99, IT14, JK11, JSPC97, Jay98, JVG12, JW05, JCL07, JLP18, JGZ06, JR96, JR98, JP11, JZ00, Kan03b, KMW15, KL15, KB +08, Ket08, KZK17, KIM05, KLM06, Km08, Kla98a, KR06, KR12a, KLR14, KLR15, KLR17, KVMK01, KCB17. Methods [KS15b, KW16, KT08, KSU14, KW18, KW10a, Kul12, Kus97, KGT07, LVWW03, LOS07, LCBD07, LP96, LSS95, LL97, LMPQ03, Lee10b, Lee13b, LN17, LST07, LG09, LHL11, LLLX16, LZ17b, LCS18, LRS02, LMT18, LL08, LSZ17, Log03a, Log03b, LNS15, Lui00, Lui01, LMMW04, LK98, MRRN15, MM13, MV00, Man99, MS17, Mar03, MTT15, MS04, MLL13, MC10, MCf95, MCf07, MRS14, MW01, Mic01, MT97b, MSS12, MS12, MFPFG18, MDC98, MZWG16, NKLW94, NX12, NAC +15, NNRW09, N900, NSJ03, NY10, NY11, NFFP18, NW097, NN05, O01, OSU10, ORST12, OS14, OLV08, OS98, OSCEO0, PFW18, PS02, PR18, PR01, PE00, PFCF16, Pav98, PPZPR07, PL06, PSA99, PWGW12, PST15, Pul08, QX08, QS18, QSO5a, RKLX07, RX17, RR98, RG07, RW11, RG98, RG06, RH09, RW06, RS13. Methods [Ros96, Ros05b, RS99, RW04, RW14,
RM08b, SSM16, SL10, Say15, SG11, SRS12, ST17b, Ser06, SCTP04, She99, SY10b, SY12, SWX16, SW16, SBX+08, SW17, SM18, SV00, SS03, ST00, SO12, SH14, SSW98, Sta07, SM07, Ste01, Ste00, SS93b, Ste02, Str94, SSVW17, TT96a, TS11, TX17, TK13, Tan96, TSK09, Tie18, TVA02, TLT12, Ton94, TW17, TS14, TPW09, TLE12, TP99, TV98b, UA07, VC00, VV05, Vas07, Vil14, VW94, VQ96, VPP05, Wal99, Wall8, WCS00, WC03, WPL+13, WLE+00, WL08, WWY09, Wan12, WSA16, WRSZ18, WHL18, WGO0, WMSG09, Wen10, WK03, XZB16, XH05, XT06, Yan04, YLTL11, YSS16, YBLH16, YZ07, YZ08, YW17, Yu01, YCS16, YB09, ZBFN17, Zan16, ZK14a, ZCZK14, Zbi11, ZTBD18, Zha97, ZV05, ZCL+11, ZZWZ14, ZSB16. **Methods** [ZMS10, ZK15, ZW94, ZF09, ZS02, vHBTC12, vdVY00, AP93, Atk94, Bia94, BR95, BHP94, Cai94, CSS93b, CW97, Dax93, DG95, Elt96, FS96, GPHHAPR18, HHRV93, HLS93, Lie93, LSM93, MMPP93, MP94, Pem93, PM95, Ran93, ST94, She97, Wei94, Zha94, vd97]. **Metric** [BPR16, BRR18]. **Metrics** [GKR16, Knu01, UA04]. **Metropolis** [CKLL16, Wal14]. **MGRIT** [DKPS17]. **MHD** [CST+13, CST16, PEC+14, PSC+16, Rav05, WGS17]. **Micro** [JS10, LLS13, LM08, LM12]. **Micro-Macro** [JS10, LLS13, LM08, LM12]. **Microchannel** [HKF+13]. **Microchannels** [VN03]. **Microflows** [CLQ12]. **Micromagnetism** [Lab05]. **Microprocessors** [HML+04]. **Microscope** [WPL+13]. **Microscopy** [BC06, LFJS14]. **Microstructure** [Ku000, Li03, NWW97]. **Microwave** [WB08a]. **Midpoint** [AR99]. **Migration** [PR06, SP03]. **Mills** [CW06]. **MILU** [WH95]. **MIMD** [ST94]. **Mimetic** [CPH14, TC12, dMV08, dVL10]. **Min** [GG94, GG95]. **Minidlin** [CG07]. **MINERR** [Dul98]. **Mines** [XK08]. **Minimal** [BBSV10, CGS02, DS14, Lee13a, LRS02, LN04, LD03, NM13, OK13, OWO14, RN95, SV01, Ton94, WMI09, ZP18, Bia94, CGS+94, Fre93]. **Minimax** [FTNB18, GJM94, LZ01, LZ02, SW10b, YZ05, ZFH15]. **Minimization** [AAP+15a, AO17, BLV18, BL014, BCL99, BL08b, CC08, CX10, DK10, DGP10, Doh03, DF03, FNNB05, GYO9, GRMS09, G99b, GZN17, KKK16, LMRS15, LN17, LST07, MF06, NN05, OC05, OST11, Vas10, WBFA09, YG15, YWS17, YMW07, YLX15, ZBK18]. **Minimum** [AW11, Ash95, BBR08, EG18, Kas95, MV00, Ng00, PS02, PHJ11, Wan13, dMHHM00, DG95, SS93a]. **Minimum-Mode** [PHJ11]. **MINRES** [CPS11, Dul98, GH02, HS17, KL12]. **MINRES-QLP** [CPS11]. **Miscible** [AD18b, CL97, GY17, LY98, WLE+00]. **Missing** [ZW16]. **Mixed** [AE08, Ain07, AHT17, BRT07, BMM98, BOG4, CPV95, CGP12, CZ10, CKY98, CKV99, CF05, CG07, DTYY18, DK98, Egg18, EPSU09, FGM08, FKTW10, FNNB05, GJO8, GYZ11, GS16, GH02, GK18, GPHHAPR18, GW00, HJP03, HJP04, HW09, KLV+16, KS99, KL05, MMT15, MRT00, Mic01, Pav98, PSA99, PQOB14, PSC+16, PE0112, San10, Sar98, SJR09, Sch02, ST17b, SW16, Sta00, VP14, WLE+00, WGS17, XCS16, YTD15, YBLH16, ZHS10, CGP93, WTS94]. **Mixed-FEM** [GH02]. **Mixed-Hybrid** [MRT00]. **Mixed-Mean** [VP14]. **Mixed-Precision** [YTD15]. **Mixing** [ZC04]. **Mixtures** [AHT17]. **ML** [YC99]. **Modal** [DMM18, dMGF17, KSMM18]. **Mode** [AK17, Aru12, CGM00a, PHJ11, RSSM18, WRP+15]. **Model** [AH17, AdSGC12, ABdSF15, ABST13, AK17, AN16, AGI16, AH09, AH12, AKM14b, BB516, BB08a, BBG11, BG07, BF13, BB15b, BMM98, BK04, BF17, BI09, BCCK16, BK00b, BS18b, BTW08, BCV13,
CLQ12, CTB15, Cha07, CS10a, CBG16, CCCZ10, CYZ17, CDM+3, DKL14a, CG96, CW12, CGHT14, CDN16, CPR11, DHE13, DSZ13, DG09, DZ08, EKLS+18, EMM+99, EF05, Frga98, GX16a, GHMY18, GT98, GKC13, GM13, Gob08, GLL01, GB06b, GPA18, Gos12b, GSW13, GLW18, HFK+13, HLLM15, HSS08, HJP03, HQH+16, HtHi18, IA14, JK15, JL16a, JP14, Kim05, Kim08, KJL10, KPPS14, KS15b, Ld12, LTC13, LSV17, LU17, LQ12, Lay96, LS13a, Lee14, LMW17, LM15, LN05, LWG10, LS05b, LM14b, LHR+18, LRT11, MO00, MRS16, MS18b, Mu97, MEF09, NKTY08, OS14, PP12a, PW15].

Model [PWG16, PGW17, PNP13, PM16, PS11b, QS14, RKL18, RDP08, RLM+00, SMZ18, SSDN12, SBR06, SY10a, SSJB17, Sma01, SBMR18, TLN14, WiOH08, WH13, XBC96, XJS13, YY18, ZBFN17, ZLF15, ZLY16, Zim14, dSGK+15, ten95, CHKM13]. Model-Based [XBC08, Fra98].

Modeling [ASZ07, ACCP13, BPR04, BCT05, BKK18, BBH+16, BCG+10, BGL06b, CHL06, CGDD11, GaP08, GV15, GRL10, GM11, HJ16b, HK03, HLY13, HLM16, JK10, KLT06, Kup00, LVWW03, Lay06, LCR+16, LOL13, LO14, LCM5, MH17, MJR05, NW11, OPR06, PSKG13, RG13, Ren15, RG09, RK07, San10, SDNL10, SPKB13, SCM10, TPT+16, Wal18, WKM+07, XMR18, vHCD15, LP06].

Modelling [GMvdV18]. Models [AA00, AKA13b, AF11, ABCP08, BST08, BHN10, BC13, BBR04, BGVS15, BJ08, BM14, BJ18b, CV07, TVCAU10, CCC17, CNP12, CS18, DBS99, DJ00, EHL06, EMSW12, FKQS17, FS05, FY14, GR04, GZV18, GZW18, GV16, HAG17, HPS06, HDB08, Hri03, Hri05, KG+11, Kt09, KL11, LO02, Le 05, LRP07, LP08, LDD11, LZ16, LNA+11, MMRN15, MEHL16, MW08b, NGX14, NCT99, NMFP16, OKdSG17, OPRB06, PGW17, QZT11, RWKW14, RKW15, RS13, RW07, RLC08, SBK18, SLP07, SC03, SY14, SBX+08, WM05, WKM+07, WTS94].

Moderate [NN14]. Modern [DARG13, EMM+99, KHW+14, MRV06]. Modes [Fli13, JvGVS13]. Modifiable [IS17]. Modification [MOKS12, Pet01, ST14a]. Modifications [BEOR17]. Modified [ACVZ12, APS12, BS15a, BFK03, BIA05, CGL+13, Dax03, EIL01, GL03, HJ18c, HLW00, HS17, LV10, LRT11, LXK08, MO02, MM95, MM98, NRSD18, Sch93, SH01, WLZ18, ZQ17, Zyg11, Anj93, FGM95, LCW95, OS95].

Modular [LS16a]. Modularity [ZLW18]. Modulated [CDM+13]. Modulating [ALLK15]. Moduli [HRV11]. Molecular [Fli13, JvGVS13]. Modifiable [IS17]. Modification [MOKS12, Pet01, ST14a]. Modifications [BEOR17]. Modified [ACVZ12, APS12, BS15a, BFK03, BIA05, CGL+13, Dax03, EIL01, GL03, HJ18c, HLW00, HS17, LV10, LRT11, LXK08, MO02, MM95, MM98, NRSD18, Sch93, SH01, WLZ18, ZQ17, Zyg11, Anj93, FGM95, LCW95, OS95].

Molecular [KP12, MS04, VS17]. MOLNs [DT+16]. Moment [BN98b, BLM03, CL10, DHP17, DFW07, GL18, LR10, LC18, NKTY08, ODF14, QTZ11, QDK18, RN14, SZA97, Seek9, YPT+01]. Molecule [Nak98].

Molecules [Kra08, MS04, VS17]. MOLNs [DT+16]. Moment [BN98b, BLM03, CL10, DHP17, DFW07, GL18, LR10, LC18, NKTY08, ODF14, QTZ11, QDK18, RN14, SZA97, Seek9, YPT+01]. Molecule [Nak98].

Molecules [Kra08, MS04, VS17]. MOLNs [DT+16]. Moment [BN98b, BLM03, CL10, DHP17, DFW07, GL18, LR10, LC18, NKTY08, ODF14, QTZ11, QDK18, RN14, SZA97, Seek9, YPT+01]. Molecule [Nak98].

Molecules [Kra08, MS04, VS17]. Moments [BSMM16, GMV99]. Momentum [LW12a].


Moment-Based [BN98b, PR+13]. Moment-Equation [LZ04].


Moment-Based [BN98b, PR+13]. Moment-Equation [LZ04].


Moment-Based [BN98b, PR+13]. Moment-Equation [LZ04].


Moment-Based [BN98b, PR+13]. Moment-Equation [LZ04].


Monotonicity-Preserving [BH14a].

Monte [ABLS05, ACdS+11, BHvST14, BK04, BCSS14, CL18a, CKXZ18, CKBT16, CML+18b, DPS18, DGR+17, EHLO6, EBSS+11, GLSTV16, GP18, GKR16, HW14b, HILL00, HS18, IT09a, IJ10, IJ14, JKLZ18, KKS08, KBK+08, LZ04, MS04, MSS12, NT18, Ökt05, PR01, PWG16, PM16, RNV17, TPW09, Wan12, WWH17, WKKP13]. Monument [Sem10].

Morrison [BCMM03].

Mortality [Kim05].

Mortar [BBMR03, GYZ11, GJP+14, KL06, PEdD12, PWGW12, Ste01, TW13b, WW03].

Most [KM05].

Motion [BN98a, CS94, CFSZ08, GM13, HT16, MO00, MO10, Nit99, Sch05, SU15, TR93].

Motions [KM05].

Motor [GLL+15].

Motzkin [DHN17].

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

MOVCOL4 [RXW07].

Movement [BLH02, FS05, KWW13, NMWI11].

Moving [BHR96, BW09, CHRO2, Car10, CM98a, CM98b, CP13, CIZ18, DBC13, DLTZ05, DLTZ06, DSBR17, GLQ16, Gra14, GN07, HR07, Hei13, HR99c, Kup00, LPR00, LPR02, RO15a, Str95, TW09, WL01, Win10, WS18, BZ96, Ena97, ZMC94, ALZ14].

Multi-dimensions [MSS12].

Multi-element [Ba96].

Multi-elimination [BL03a]. Multi-GPU [RHSK11]. Multi-Index [RNV17].


Multi-Stage [SW09].

Multiblock [LDM00, MC10].

Multibody [AKPR08, Lee13b, Sch05, WK03, YP98].

Multichannel [YZY09].

Multiclass [BCV13].

Multicolor [WZ03].

Multicomponent [HS15b, LD05, WZET13].

Multidimensional [CLL13, PM95, WPGR13, LSZ17].

Multidimension [CLL13, PM95, WPGR13, LSZ17].

Multidimensions [GC17b, Sur00].

Multidomain [CLL13, PM95, WPGR13, LSZ17].

Multifidelity [NGX14, PWG16, PVK16].

Multifluid [Kar96, SA99].

Multifrontal [AGL10, AAB+16, AAB+15b, ABLM17, But13, GLR+16, VM13, Xia13, XXdH+17].

Multigraph [BS99a, BS02].

Multigraph [BS99a, BS02].

Multigraph [BS99a, BS02].

Multigrid [AL02, AC04, AC05, ABKS16, AB08a, ABC+16, AG17b, AG17a, ADGM98, And16, AA02, BFKY11, BSH16, BDFS98, BFJ+15, Bas98, BDO12, BI00, BFG+16, BGG+03, BHST08, BKS16b, BR18, BVV08, BO03, BHO8, BVW09, BM95b, BD99b, BIYS00, BF10, BK14, BCK+18, BCF+00, BFM+05, BGMR01, BF00, BVW03, BLM03, BSA13, BKS13, BK11, PEM17, CW07, CCS98, CCG+14, CH02, CMM+07, CKY98, CMK11, CMK10].

Multi-index [RNV17].
CM15, ICCVEKV17, CFH+00, CG17, CRV14, DMS01, DMM004, DMM+10b, DMM+10a, De 12b, DM13b, DT95, Den97a, DB94, DTM05, DKPS17, Doh07, DSC05, DGR+17, EE001, EO5V, FS14, FF+14, FMOS17, FS96, FMB13, FKK+14, GN16, GGL09, GR17, GMSB16, GV15, GGOY02, GRS+15, GOS03, HKR02, HR05, HW13, Haz08a, Haz08b, HHvR03, HW01, Hen05a, Hen05b, HTW+12, HV95, HTB+05, HGRW16, Huc08, JV96, Multigrid [Jia14, JL05b, KKV13, Kan03a, KR14, KK09, KK02b, KY03, Kna98, KR99, KM16, Kra08, Kra09, KW18, Kwa99, LO11, Lee09, Lee10a, Lee12, LN05, LB12, LB06, Liv15, LRGO17, MO08, MM13, MMM+94, MOSS17, MS06a, MT96, MSB+15, MMV98, MN08, NN12, NN14, NN17, NAC+15, Not12, Not17, OR02, Ols07, OST11, OW98, OW00, OW02, PZZB15, PT01, PBV18, PoH09, ROM18, RGOY10, RLM+00, SB10, Sch98, SCTP04, SIS96, Shea99, SS10a, SW17, SAB14, TY95, TY11, TY15, TPT+16, VV05, VV13, Vir07, WCS00, WC03, WL04, WHCX13, WOW00, WO01, WY09, WW03, WK03, WE06, XQ94, YBH15, Yav96, YVB98, Zas95, ZF09, bZOW07, BGP94, BY93, BH93, LK03, MMM+95, MMMY96, TW93, Yav93]. Multigrid-In-Space [And16]. Multigrid-Preconditioned [PT01]. Multigrid-type [DSC05]. Multigrids [BTB05]. Multilayer [Lar99]. Multilevel [AG17a, ABH03, AOS05, AP99, B16P16, BS02, BK98, BK99, BLO4b, BHT09, BS05f, BGS09, BBB+11, BMSV97, BV98, BGR16, CGP93, CGZ99, CC08, CC10, CWZ07, CXW15, Cho05, ICCVEKV17, CDGT01, DMM+08, DMSW10, DGR+17, EY07, EN08, EN09, EK14, EK10, GLS13, GX15, GCR16, GC17a, GRI94, GRI95, GSO2b, GR05b, GRM10, HM05, HJ98, HLMR96, HL10, HJS18, HS01b, HL17, JKL12, JKLZ18, JR96, KXS18, KNN12, KK98, KKT13, KS94, KKF11, KC16, KT08, Kra12, LLP98, LLZ08, LSC18, LX16b, MG07, MG09, MG11, MV94, MK08, MSS12, MTKV16, NT18, OVV17, OKLS15, Par17, PS08, PS11a, PC07, Rüd94, SZ99, Sa05, SCTP04, SBX+08, SW03, SRW+18, SLC01, TX17, TTY16, WC00, WIOH08, YD06, ZT17, Zha94, EG93, AM17, LB11]. Multilinear [SL10]. Multimedium [WLK06]. Multimodal [HW03]. Multinumerics [TW13b]. Multiparameter [BC99, YBM+18]. Multipass [MS98]. Multiphase [BHN10, BEM17, LVWW03, MBGV16, RHSK11, SU15, WZET13, WH15]. Multiphysics [BS16a, LCR+16, SM17, WPGR13]. Multiple [ARMNW10, AEFM17, AHDK14, ABB+16, BA05, BNP15, BDvdG05, BER17, BS96b, BD99a, CGL+13, CDR14, CN99, CC97, CMM95, EPE05, GYZ11, HR05, KKN18, KM16, Kra12, LLP98, LZ01, LZ02, LX14, Liv15, LN04, MN11, MY18, Nov15, RSM18, RH06, RNR16, SG95, SRI+18, SO10, Str93, UA04, WS07, WOL18, WO98, WW12, XYZ12, YTD15, YZ05, YC99, ZGA10, CW97, HEG95]. Multiple-Coarsening [Lee10b]. Multiple-Grid [MY18]. Multiplication [AKA13b, AA14, ABB+16, BSH16, B12G12, DO15, DKGS15, EBSS+11, GSS+15, GKN18, HJ18a, KHW+14, Mat95, MDM15, SLOdGK14, SVdGP16, VR14, W09Y, YB09], Multiplications [FHH+18, YL93]. Multiplicative [Cai94, CGG07, HLZ13, SCG17, V114, WY13]. Multiplier [BLS14, IT09b, KL15, LNS15]. Multipliers [CG18, KMW99, KW00, WY12, YWY18]. Multiples [UA04]. Multiply [BC13, DK11, HT09, KA18, NAS13, Goe97]. multiply-add [Goe97]. Multipoint [BS98]. Multipole [BC11, BT03b, BPT+14, Ber95a, CDGS05, CD13, C05b, CPD17, ED95, EG01, GR02, GSS00, GD03, GM10, HA17, HEGH14, HR98b, KLZ+06, LCD14, MG07, MG09,
MG11, MR07, NKLW94, OC03, OC05, PD15, RRR05, Sch94, EB96.

Multipole-Accelerated [NKLW94].

Multipole-Based [GSS00].

Multiprecision [CVW06].

Multipreconditioned [BKL+17, Spi16].

Multiprocessors [Sun96, NP93a].

Multiprojection [MFPG18].

Multiquadric [DD12, KW11].

Multiqueadrics [CBN02].

Multirate [Pul08].

Multiresolution [ATV07, ACD95, ADH99, BW00, BC02, BH97, BT01, DDGS16, DMD+12, GC17b, HBB+16, JTZ08, KHKL16, LS00, WB00, Liu93].

Multirevolution [Vil14].

Multirow [KMSM14].

Multiscale [AE08, AD07, AKT16, BZ97, CSS10, CD01, CE16, DP10, DCSO16, DMD+12, GC17b, HBB+16, JTTZ08, KHKL16, LS00, WB00, Liu93].

Multisecant [SM17].

Multishift [VD10].

Multispecies [BMV13, JS10].

Multistage [AHHR16, Ban10, HS06c, ZRTK12, WRB+15].

Multistep [Ban10, HiH18, IM97, WZ03, ZFZ14].

Multisymplectic [FMR06, MRS14, MW15, CV16].

Multisymplecticity [RM08b].

Multitarget [Har08].

Multiterm [LZK17].

Multithreading [But13].

Multitissue [CC11].

Multivariable [Lin06].

Multivariate [BGMO9, CS14, CKN06, FEL18, GKNW18, IM98, LL03b, NX13, Rah13, SX16a, SX17, ZNX14, CW93, Heg95].

Multwavelets [ABL00, BW00, CCA03, WB00].

Multiword [JF16].

Mumford [DMN08].

Müntz [MC05, SW16].

MUSCL [Zen16].

Music [RP08].

Music [AILP07].

Music-Type [AILP07].

Musta [MEF09].

MuT [LB11].

Myths [HvdG96].

N [Man95, Ten98].

N-Body [Ten98].

N-Simplicial [Man95].

Nano [GL10].

Nanophotonics [LSV17].

Nanotube [JF14].

Narrow [KP09a].

Natural [CF07, HLMR96, LRD+04].

Navier [GHMY18, KW07, ABX+17, ABS96, ACL09, BH00b, BBSW15, BL07a, BW11, BS15a, Ber97, CST16, DLTZ05, DS17, DHE13, ES96, Eln99, EHS+07, Ema97, FF05, GRL10, GHST98, GW98, Gk98, GM15b, HLLM15, HG96, Hes97, Hes98, HLM+09, HBS00, JL11, JK05, KL02, KL05, KGSS10, KOV15, KRV18, LW12a, LLP98, LL03a, LCW95, LLL08, LKBJ18, Lui01, MP08, NSK10, OR02, PCF16, PT01, PP08b, PM95, PS12, RX17, RG09, SWT00, Sma01, SSF16, SU15, TLN14, TLLK09, TC99].

NCP [Rad16].

Near [ALRT17, FD03, GrM10, MHS98, O’L01, SW10b, TO15, Van95].

Near-Field [GrM10].

Near-Optimal [FD03, O’L01, TO15].

Near-Singular [MHS98].

Nearest [BCT07, RO008b, XB16].

Nedelec [SLC01].

Needle [CG17, IW14].

Needle [CS94].

Neighbor [XB16].

Nhematic [MMRN15, ZYLW16].

Nest [AMM+10, AEFM17, BvG15, CZ10, EN08, GPP95, GBDD10, HRR98a, LM15, NX13, RWW14, WRB+15, ZND18, ZS18].

Nested-Batch-Mode [WRB+15].

Network [AB16b, BPS13b, BPS13a, FMRR13, RGG15, SMR16, Wan07a, SBC93].

Networked [Her08].

Networks [BHN10, BK18, Egg18, ELK+18, EdDP09, FGH+08, FK18, GaP08, GPZ17, GK13, HK03, HGM14, KO05, LS16a, MTV16, MM07, PEdD12, SDNL10, SAY03, SAE08, Wan97, CC96].

Neumann [BR95, FCR93, Fl13, FK00b, HN06, KL06, KL13a, LV10, Nas09, NXDS11, NCT99, SW16, XYZ12].

Neural [LB15, PvdVvG17, Rab+14, RC06, SAY03, Wan97, Wan07a, SBC93].

Neuromagnetic [BBR08].

Neurons [AN16].

Neurophysiology [GM96].
Neutral [COZ96, WL08, WH13]. Neutron [CMM*07, FHL13, HHM17, KMS15, SG11].
Neutronics [WKKP13]. Newton [BG05a, BG05b, CC12a, MR17, PBC05, AW15, AHDK14, BC10, BM01a, BBMN1, BG05b, BU15, BHMX18, BWV03, CC16, CGK*98, CK02, CL11, CZ10, CBDW15, CX08, DFG15, DGK*16, DP03, EW96, EV13, FsvdV98a, FGM95, GV09, HYC16, HLM16, KMT98, KS10, KR99, KVMK01, Lan10, LL08, LK15, LR98, MV00, MB17, MWBG12, MBVO13, MS09, OS98, PW98, PT01, PP08b, PMSG14, PST15, PMSB12, RWW14, SL10, SM17, SQO02, Wic17, YHC16, YBM*18, dSK11, vWBV09].
Nonlinear
[LU17, Lay96, LMW15a, LWZ17, LW14, LMT18, LSV13, LSK11, LKK18, LK04, Lui00, MIS03, Mar94, MP08, MG12, MT99, OW00, PL03, PW15, PW98, PPT11, Pla98, PBV18, RPK18, RLM+00, Sch03, Sem10, SHP07, SY18, SB05, Slo02, Sma04, SVX15, TW05, Tra95, VMM13, VC00, WS95, WL08, WBTG18, WHL18, WSH14, WB08b, WK03, WvdZsvB18, Xue18, YDF97, YS16, YHC16, YZ07, YZ08, YD06, YYY11, ZTBlK18, ZZ04, ZaSpH14, ZR1K5, dSGK+15, AGC96, AO93, Car93, Sar97, TR93].

Nonlinear-Programming-Based [KB08].
Nonlinearities [JKM14]. Nonlinearity [CL11, GM00a].
Nonnegative [AN16, CIZ16, CL08, DHR09, GW17, IL16, KP11, LD11, NSJ03, SX11, ZJX14, FS96]. Nonnegatively [BV03]. Nonnested [Ca95]. Nonnormal [vD03]. Nonnormality [vD10]. Nonorthogonal [DGK98]. Nonoscillatory [BT06, CFR05, CV07, DB07, GR02, HKYY16, J978, LN03, LT00, QS05a, QS08b, ZLS12, ZQ18].
Nonoverlapping [Den97b, MRS04, PL12, RL10, RGG06]. Nonparabolic [DP00]. Nonparametric [EMT09, ES00, HHM08, Hei13, LYLC17, Rei13]. Nonpolygonal [And08]. Nonpolynomial [BB10]. Nonreflecting [LS02]. Nonsmooth [BBSW16, CZK16, CXXZ18, HTMM15, Jt11, JLZ16b, KP12a, Kra09, MV06, HJ18c].

Nonstandard [BTT13, RU01]. Nonstationary [BTGH12, SMN10].
Nonstrictly [TW95]. Nonsymmetric [BDD+17, BN05, BGL08, BM11, BT98, BSSd99, BHT00, BM+10, BCMM03, Bur13, Bur14, CJH11, CKD13, CS96, CKY98, ES17, EPV94, HWD02, HZ10, Ips01, Jou94, Kas95, KOV15, Krz01, LZ99a, LSS03, M07b, MN11, PV95, Ruh98, ST08, SIS96, SG95, SvG08, Sta94, TT07, Ton94, Zha97, dDBV14, dSL05, CGS+94, DS93, ES96, ST94].

Nonturbulent [CBS00]. NonUniform [SR16, Ain14, BBBV13, BGOD08, BB15c, CRKS07, FCM12, GMSB16, NL99, RAT18].

Nonvariational [LP11]. Nonzero [CX10]. Nordsieck [Ku12]. Norm [BM18, BPS14b, BL14, BM00, BBR08, GL08, GS98b, KA95, Mei11, Pic10, Yan18].
Norm- [GS98b]. Normal [KM05, MO10, ST16b, VL10, WR13, YPN+01].
Normalized [BD04, BL08a, TW13a].

Norms [AC098, ACC00, FNNB05, GMO14, GG94, GG95, HS17, Ho04, KR00, RSNR17, Ste00].

Note [ADGP07, CW16b, GK11b, GG95, Ips01, KW10b, LKK18, MGW00, QQVdG01, SC03, WB99, Jin95, Tre93].

Notion [BYK05]. Novel [CGD11, DFS17, EKSS16, EOv05, F008, GR+16, GKK10, HY10, HL17, Lee10a, LJ17, MTM08, Xu94, YTL11, ZLTA15].

NR [CLQ12, CLW13]. Null [BN00, HHLW15]. Nullspace [Le 09, RG13].
NUMA [GKC13]. Number [AMHR13, CQ14, DLV17, Fer98, GH15a, HR14, KR17, KL15, LSW02, LX16b, NH12, NAv+14, Pe18, SSDN12, SV08b, S11, Ste11].

Numbers [EL01, HL17, KV05]. Numerical [ABB98b, AB17, APZ13, ADK03, AH03, APrDG12, Ama98, AIL05, AP97, AO17, Atu12, ACC13, BHO0b, BL03a, BJM03, BS05d, BMTZ13, BBC+01, BN00, BFP15, FF05, FSvdV98a, GJ17, GR05a, GLL+15, GJP+14, GRPG01, GH02, GCB15, GMS02, GH14, GHKS14, GS97, GVMM14, GN07, HH02, HJ98, Hok17, HKT01, HXB13, HLM16, IM97, ISG15, JK07, KB08, KA95, Kea97, KZ00, KLR14, KLR15, KLRU17, KM98, KLS08, Kus97, LP13, LR16, LV13].
Numerical [GGK+04a, GMV99, GT06, GV16, GKD05, GGMK07, GMS02, GKT09, Gre03, GV07b, HRT10, HT13b, HM98, HBB+16, HLP08, HRR99, HC98, HHL07, HHL15, HLM03, In99, Jam98, JK12, JMS16, JW05, JW13, JZ00, KB08, KP12a, KW07, KKN18, KKF11, Kla99, KS15a, KH8, Kös07, KS15b, Kup98, KGT07, KM05, Lan94, LLL05, LL02, LZ17a, LG97, LMPQ03, LL00, Li03, LB15, LJ03, LLL08, LS09, LC05b, LP06, MR09, Man05, Mar94, MSW05, Mc19, Men94, Mic01, MT97b, MT06, Mis01, MZ94, MS07e, MDC98, MHS98, Nas09, NWW97, NHH99, Obe13, PBP14, PS18, PL03, Pen03, Pic10, PABG11, Por01, Pup03, RPK18, RR98, RW06, SSW18, SRCG93, SB98, Sei95, SCM10, SY10a, SP02, SO15, Ste01, SW15, ST11, TR93, Toi08, TW17, Tre97].

Numerical [Van95, Van00, VW98, VR14, WS95, WWY09, WM93, Wen08, Wen10, WP98, WKM+07, XBC96, XKWY08, XK08, XTO6, YTLI11, YZ07, YZ08, YPO8, ZLTI15, ZD09, Zha18, ZW03, ZCP06, ZY1W16, Zhe07, ZK15, ZHDZ17, ZS02, ABS96, BS94, Ber97, BH97, BGP94, CD97, Rán93, RST93].

Numerically [LRP07, LP08]. Numerics [ACF09]. Nutshell [HL98]. Nyström [CSS93b, Cas05, CCC18, PT99].

O [AGL10]. Objective [KHRvBW14, ten95]. Objectives [San10]. Objects [ZB12].

Oblique [EO16a]. Oblivious [LFLS08, SLFL06, YB09, ZGG17].

Observation [ZGA10]. Observations [EN16, Har11, NMFP16]. Observed [JCLZ18, LKBJ18]. observer [BDP96].

Obstacle [BCH12, MRW15, MZ94, NS06, RW07, WW10]. Obstacles [LS09, AE95].

Obtain [CAB04]. Obtained [BK11].

occasion [PS97]. Ocean [AD10, HZXC16, KH14, NK13].

Oceanography [XBC96]. Octahedron [AB08b]. Octree [HMM07, SB10, WM11, HH11].

Octree-Like [WM11]. Octrees [BW11, IBGW15, SB08].

ODE [Ber00a, Bjo95, CPR11, GS97, HJ07, Lie93, LC06, OB05, SR97, SBN11, vd97].

ODES/DAES [Bar05]. Odyssey [AB03].

Off [SE13]. Offline [SW09]. Often [WS05].

Oil [BMM98]. On-Line [OS15].

On-the-Fly [TY11]. Once [MPW18]. One [AKK18, AP01, AHR12, BT06, BFK05, COZ96, CM98a, CGS02, CG18, CC12a, GBCT10, GT06, GV09, Has08a, Has08b, HC95, KS17, LS95, Liv08, MR07, PMR16, Red99, SW16, SV11, Sta07, SMO1, SJ01, Vil09, VS03, WLL+15, Wen08, Xu04, YHQ12, SSS93a, DSSZ13, Has97].

One-Shot [CC12a, Has08b, Has08a].

One-Stage [AKK18]. One-Time-Step [GV09].

Online [AF11, LPSB17, PW15, SBK18, SW10a].
onto [Ama98]. Open [HG96, LJL09, VS03]. OpenCL [DARG13]. Operation [CF07]. Operations [ASZ07, BB09, JK12, KV13, MW08b].
Operator [AN17, BBB14, BS16b, BS06a, CCC17, CS18, Che13, CDB13, CKO15, DG16, DHO12, DMD^+12, FKK^+14, GHHH17, GS18, GLQ16, GLQ18, HHWL15, Liv08, MPRW98, PC98, Rah00, RZ03, RSW10, Rub12, WLZ18, XZ10, YYYW18, ZB12, vGEV07].
Operator-Based [RSW10].
Operator-Splitting [GLQ16, GLQ18].
Operators [BS96a, BT04, Beu05, BC02, BZ15, CDY07a, CJ95, DZ15, Doo07, Eli06, FF15, HDZ16, KKX96, LW97, MC10, NN18, ODN17, SRS12, SY08, TW03, VR14, WH15, Win10, XLI8, YR98, ZNI6, Nat95, Nat97].
Optical [BIK02, CILZ15, HPS08, KdS05, LC05b, OKdSG17, RBH06, KdS05, LC05b, OKdSG17, RBH06, SKMF15, YSS07, dSK11].
Optically [Lee10a].
Optics [Du11, GRPG01, QL06].
Optimal [AMVR17, AA00, AAD11, APSG14, APSG16, AS18, AS93, ACLZ15, AHHR16, BKGV16, BGL06a, BBH18, BivST14, BH11, BFK05, BG05b, BK00b, BIK02, BW09, BBO09, BCK+18, CGR14, CF07, CWL^+14, CK98, CCO11, CDBW15, CS10c, Deda10, DZ12, DP07, EU09, ES18b, FF15, FD03, GS18, GXY15, dMGF17, GPS95, GM11, HRT10, HSB12, HN06, HR99b, IR98, Jac03, KB08, KKKZ17, KLS^+15, Kla98e, Kny01, KALO07, KL12, KT17, LPSB17, LLX15, MH17, MRS04, Mar01, MNS07, MSS10, MCB18, MK08, MRW15, NRMQ13, Not00b, OL01, OW02, PWG16, PST15, PBtTB^+15, Rav05, RDW10, RW11, RWA95, RW13, RCC18, RCLQ18, ST03, SX16b, SP16, SSC^+15, SCW^+17, Sta07, SM07, SM15, SBMR18, SW09, SW10a, SJD14, TO15, TWK18, TU010, Wam07a, WG00, WG12, Yam02].
Optimal [Yiu95, ZWH^+14, ZFWCW15, BDHS10, Cai93, DGL12, Lin16].
Optimal-Transport-Based [MCB18].
Optimality [CCS97, Don06, NM13].
Optimally [BS18a].
Optimization [AEMM16, AHT12, AOR18, BCS07, BM18, BPS13b, BPS13a, BG05a, BG05b, BH08, BGR10, BfnZ95, CA16, CC12a, CJIY16, CKXZ18, CDM^+13, CSW10, DP17, De 12a, DF10, Dmn08, Doh07, DS17, DGSW10, DW15a, Ekm94, EE14, EN16, FM16, FGH^+08, GLL^+15, GHHK15, GU17, GJ05, GPZ17, GH01, Gjt94, GV07b, GKL08, GHKS14, HOY03, HM10a, HT13b, HS06b, Haz08a, Haz08b, HJ18b, HK03, HRS12, HKT01, HGZ17, KSD10, KLS10, KSL15, KM16, KHRvBW13, KHRvBW14, KSV16, KBP17, LCH09, LU17, LS13a, LN05, wLxY00, LWZ13, LGH^+13, LNA^+11, NWW97, PWF18, PR09, Par17, PNP13, PSLG14, PDC99, PMSB12, PBC05, PCD07, QGVW17, RP01, RL17, RG07, RDW10, SW08, SW16, SSW12, SPD18, SW17, SSJ08, SU15, Ste16, DH16, SB15, Toi96, TTY16, VM15, WB08a, WRB^+15].
Optimization [WYGZ10, WSR08, WH09, YHC16, ZZZW14, ZDD16, Car93, DLG97].
Optimization-Based [BPS13a, KBP17, ZDJ16].
Optimization-Constrained [LCH09].
Optimizations [HML^+04].
Optimize [BBS14, WBS^+17].
Optimized [ADM10, BM01b, BC13, CGB12, CK94, DMBB10, DGGG09, DKGZ09, DGL^+12, EDGL12, GMN02, GK12, GX16a, GZ16, GI17, HJN17, IT09b, Jam98, LNS15, MHL^+15, MM07, OKD16, PKD13, QX08, SCGT07, SAB14, ZSB16].
Optimizing [AB16b, Fei98, GRPG01, Kaw18, KKL05, MHL^+15, PD15, Rán93].
Optimum [Le 01].
Option [IT09a, Lz16, RW07, WWH17].
Options [AO07, FO08, HY08, HFL11, IT09b, KL11, LFBO08, Mark03, OGO13, OGO16, RO12, Toi08, ZK14c, dFL05].
ORBIT [WRS08].
Orbits
[CD06, DDF00, GM00b, LMR97, LCH99].

Order
[ACVZ12, AVZ13, Abg09, ADR14, AMMR10, AMM+10, AMM+11, ABM+13, AV14, ABR11, AbdSF15, Ain07, AAD11, Ain14, ABB96, ALLK15, ABST13, AK17, AHT12, ALMR17, AABM13, ADGM98, ABBGG16, AF11, AD18b, ADK+18, AP12, A506, AK04, AIV98, BBWS16, BS05a, BCR11, BM11, BT06, BS05c, BGM07, BB15a, BB15b, BKT15, BM08, BPR99, BT97, BBD16, BFS16, BZ15, BLR14, BV16, BRE17, BT113, BLM03, BS18b, BGL06b, BLO7, CLM00a, CLM00b, CL10, Cao07, Cas05, CS18, CGV18, CMM00, CW15, CB15, CDF18, CLAT10, CD15b, CY17, CMIO10, CFJT18, CM99, CG07, CK94, DW98, DM13a, DG09, DFN12, DKL12, DAE02, DGP18, DS16, DMD+12, DK98, DKM14b, EO15, EO16a, EIL01, FM98, For06, GH07, GM17, GW15, GBCT10, GMvdV18, GA18, GM14a, GZYG18, GZW18, GB06b]. Order
[GPA18, GLT09, GM15b, GNPT18, GM11, GX16b, GLW18, GM04, GN07, HHT03, HO18, HL93, HXZC16, HJ18b, HRT13, Hen05a, Hen06, HO94, HO96b, HH11, HS01a, ISG15, ILK05, Jam98, JK15, JK11, JLZ17, KM11, KP09a, KO05, KT05, KL05, KPI13, KZK17, KR11, KCB17, KW16, KP05, KS14, Kup98, KLO0a, KPW17, KL11, Kye12, LO11, LP11, LE10, LU17, LMMR00, LM15, LMM17, LL00, LPR02, LG09, LLLX16, LD16, LN03, LM14b, LM14c, LSZ11, LY14, LTW18, LX16c, MNS07, MSL13, MC10, MRS14, MRS16, MN18, MAA98, MS18b, MWY17, MCV17, NHSS13, NN14, NS06, Not00b, BKdSG17, OD17, Ols07, OR18, ÕB05, PWF18, PL03, PT99, PCFN16, PDA09, PSC18, PP12b, PP12c, PJ96, QS18, QS08b, RRR05, Rav02, RL10, RKL07, RMC12, RM08a, Ros05a, RWX07]. Order
[San10, SDNL10, SBK18, ST03, Say15, SPKB13, SHP07, SC02, SC98, Str99, SJD14, TVA02, TM14, TPB17, VC00, VVM12, VB07, VSBH99, Vill14, Vill15, WMC12, WGT14, WSK99, Wen08, Wen10, WM05, Win06, XH15, XMR18, XQX15, XH05, YI18, YSS07, YCS16, ZBFN17, ZZZK15, ZLLT15, ZS03, ZJC12, ZLS12, ZF14, ZFLB15, ZYSL15, ZSB16, Zha18, ZFZ14, ZHS10, ZLTA15, Zim14, ZPE12, dM08, AdWR17, Ah96, CSS93b, GYO5, HKYY16, HO96a, LSM93, Pem93, She94, She95, ZMC94, ZSpH14]. Order- [MSL13]. Order-Optimal [MNS07]. Ordering [BT99, ÇAK11, GBDD10, HR98a, MKSG10, MM95]. Orderings [BSV09, BT00a, BT00b, Day98, IN05, SO97]. Ordinary [Bre17, CP04, EM99, HV04, HJJL18, IM99, KW15, KR12b, LLS13, Mcl95, RNR16, SB05, TSK09]. Ordinate [HHE10]. Ordinates [AKM14b]. Orientation [HH16]. Oriented [CPB13, CCH15, Gri95, LW12b, LW14, PDTVM08, RL13, SCW+17, W17, vdZvBdB10a, vdZvBdB10b, RC94]. Ornstein [BPB07]. Orthogonal [AK04, Baro0, BF95, BF06, BL99, BL03b, BDMFSL04, Car10, CEH08, CW16a, CP03b, CBS00, CG10, CLN12, CRT11, FHI+18, GL18, HM14, HLR18, IW14, JED10, KHO0, KP12b, Mio08, MNZ15, PDA09, Rav02, RSM18, Sun95, Sun96, SLCO1, WGB97, WLL+15, Zie12, von97, ALT93, Bia94, Rag95]. Orthogonality [CJ16]. Orthogonalization [Sta97, Ste08]. Orthonormal [W009]. Orthotropic [LOL13]. Oscillating [KSB11, WTVB09, Tsy97]. Oscillations [LP96]. Oscillations [LRP07, LP08, Pet05]. Oscillators [LK04]. Oscillatory [AK16, CSS09, EY07, GASSS98, HW14a, SBK13, Vill14, YP98]. Oseen [AOR18, BO06, H008, Le0 09, OVO7, Wab05]. Osmotic [WFAP15]. Other [Bal00, BCF01, O’L01, SM17, ZW03]. Out-of-Core [ADL+12, RS99, AGL10]. Outer [GGGL10, GY99, GPZ17, OKdSG17].
Saa93, AA14]. **Outer-Product** [AA14].

**Outlier** [VR16]. **Output** [AA14, CHMR10, MP08, Yan18, ZFLB15].

**Outputs** [PDH09, Over- [MSM14].

**Overcoming** [EO15, EO16a].

**Overdetermined** [DN13, ST96]. **Overlap** [AKA13a, Bre00, DW94, GMN02, GZ16].

**Overlapped** [SX11, WH95]. **Overlapping** [AKA13a, Bre00, DW94, GMN02, GZ16].

**Overresolving** [BSS17].

**p** [ST98, BOF16, HK95]. **P-Version** [HK95].

**P3DFFT** [Pek12]. **p-est** [BWG11].

**Package** [KMRW97, RTH17]. **Padding** [BR11].

**Padé** [GSS12]. **PageRank** [FLM+05, GGGL10, GK11b, LM05a, WWJ12].

**Pair** [Le 05]. **Pairs** [EH18, PT99, SS93a].

**Palindromic** [LWK+16]. **Panel** [RRR03, Rot96].

**Panich** [KL13a]. **Pantograph** [HXB11].

**Parabolic** [AB08a, AAII98, And16, AH09, BEEM18, BC09a, BCF12, BF06, BF14, BvW09, BV16, BWZ10, BW09, CH09a, CDG17, CGR14, CCG14b, DKO12, DGvdZ18, FMO17, FH06, GI16, GPHAPP18, Gra14, GS00, HVW95, HV95, KK18, Kye12, LV13, LLW16, LSC18, LST11, LPP09, MNS07, MSW05, MPORW08, MSS10, Moo00, PS11a, Pic03, PMSB12, QX08, SV08a, Sloo, NV05, WG12, WvdZSvB18, Yu01, ZS02, ZFHS15, Boe93, Cai94].

**Parabolic-Elliptic** [PS11a].

**Parabolic-Parabolic** [PS11a]. **Parachute** [KP06a]. **Paradigm** [BH00a, BL04a].

**PARAEXP** [GG13]. **Parafac** [KU18].

**Paragon** [Rot96]. **Parallel** [ABM+13, AKK14, AAB+16, ADLR15, AAII98, ACD18, ABI00, BMP14, BD+97, BDHS10, BDS98, BH00a, BL04a, BO07, BS98, Bar00, BPT+14, BPSV15, BYL13, BDvdG05, BFG+16, BG05a, BG05b, BMF12, BK17, BBD18, BtVÇG+10, BTB05, BGMR01, BBR08, BG12, BRK16, BWG11, CGK+98, CR16, COS06, CV15, CGG+14, CC12a, CC06, Cho00, CP15a, CMO10, CHO12, CG93, CP95, CKLN98, CML+18a, CML+18b, CDFQ11, CEFM08, DGH12, DKKP14, DGR+17, DG99, DGvdZ18, Ema10, EKSS16, Ett16, FFK+14, Fie98, FW97, FJP99, GV07a, GG13, GI16, GKV00, GKM+17, GCB15, GAMV13, GG05, GKB16, GKK08, GKD10, GRI95, GKL08, GDL07, GR05b, GH97, HK02, HO15, HW14a, HK09, HRT03, HK16, HJ98, HW94, HL94, HJS99, HK00, HS06c, HWD02, Hen06, HSF07, HP94, Hig95, HH16, HVW95, HK01]. **Parallel** [HGRW16, IBM01, INS05, JFG10, JHJ12, JCL07, JP97, KU18, KA18, KR06, KLRU17, KV12b, KRDL18, KHK16, KZ16, KW10a, LCB07, LMR98, LHN96, LZ99b, LSN17, LYL+11, LC05a, LC08, LXD16, LT14, LKVW10, LD11, Lun15, MKSG10, MMM+94, MXYB16, Mat95, MSM14, MSB+15, MZW09, MFPG18, NvdP00, Oet99, OW98, OKD16, OKF14, PS11a, Pek12, Pel93, PXY16, Pip13, PP13, PLY13, PDMY14, PBC05, PC07, QQvdG01, RT10, RWA95, RT99, RGG15, SB10, SvdGP16, SM17, SR16, SWT00, ST00, SC98, SO97, Sun96, SSB08, Ten98, TD99, TAH15, U04, UA07, WA07, WHCX13, WiOH08, WC17, W18, XB16, XA99, Xic05, YCZ13, YSZ14, ZSD+10, ZK96, AS03, AM95, BDP96, D93, EG93, G0t94, JP93, Lan93, MH95, OA93, PS09, RG94, Sni93, TW93, Wat94, AA14].

**Parallel-In-Space-Time** [DGvdZ18].

**Parallel-in-Time** [HW14a]. **Parallelism** [ABB+16, BDO12, Min02, PQOB14, RN16, YS16]. **Parallelizable** [HLLT97, NT18].

**Parallelization** [BG17a, GLST16, Til15, WZSL12].

**Parallelizing** [HvdG96]. **Parameter** [AHDK14, BGLO6a, BP97a, BF17, BU15, BM00, CMK11, CBS00, CJK10, GJ05, GG18,
Parameter-Choice [CMK11].
Parameter-Dependent [BFN17, CBS00, TUV10, ZN16].
Parameter-Robust [LMW17].
Parameterization [LMR97].
Parameterized [BBBG11, CGI11, CW12, EF15, GLT09].
Parameters [DD12, EHN12, GKM17, HSB12, Jac03, JG02, KS15b, LM14b, O’L01, PDC99, VR16, DG95].
Parametric [AH17, ABdSF15, AF11, ACW12, BGN08, BPS14b, BS16b, BTWG08, GU17, GLMN15, GU17, GLMN15, GU90, HSM07, KS11, LQ12, LS13a, TZ14, TB02, dSGK15].
Parametrization [SM15].
Parametrized [BKGV16, DDMQ18, Ded10, DLY14, EPR10, GV12, IA14, JX13, NRMQ13, SBMR18, ZFLB15, Zim14].
Parareal [AKT16, DM13a, GV07a, GJSZ13, LLS13, MSS10, WZ15, Wu18].
Paraxial [CJ95, QL06].
Pareto [vdBF08].
ParILUT [ACD18].
Parity [BLM03].
Part [ABBM98a, ABBM98b, ABC00, BGK15, BG05a, BG05b, BTGMS13, Bur13, Bur14, CML18a, CML18b, CHL16a, CHL16b, DSZ13, EO15, EO16a, GM17, GOS12a, GG08, GS02a, GS02b, KPGS10, LP07, LP08, Lee10a, PMSG14, Red99, ROO08a, ROO08b, Sta07, SM07, YZ07, YZ08, dSL05].
Partial [ACLZ15, AW15, BCS07, BJN02, BBH18, BV09, BOPGF06, CG18, CB98, CCG14a, CCG14b, CRV13, EPR10, EF15, FBF15, FMRR13, FWA+11, FGH+08, GLT18, GPZ17, HHS+16, HJ98, HO94, H096b, HVW95, HV95, HHL07, HG00, HV04, KL15, L17, LU17, Lee09, LMW15a, LE17, LCD18, LPR98, LJ17, L1Z13a, LCH99, MR09, MB00, MPW18, MTBT17, Pul08, RPK18, RWX07, Sch98, WH13, XS16, XC13, You94, YR12, bZOW07, AGC96, EL93, FGM95, Gre93, HHRV93, Wri93].
Partially [AHT17, BKK18, BPS13b, BB08a, BB08b, BPS13a, BS16b, CRV13, EPR10, EF15, FB08, FBM14, FGH+08, GLT18, GPZ17, HHS+16, HJ98, HO94, H096b, HVW95, HV95, HHL07, HG00, HV04, KL15, L17, LU17, Lee09, LMW15a, LE17, LCD18, LPR98, LJ17, L1Z13a, LCH99, MR09, MB00, MPW18, MTBT17, Pul08, RPK18, RWX07, Sch98, WH13, XS16, XC13, You94, YR12, bZOW07, AGC96, EL93, FGM95, Gre93, HHRV93, Wri93].
Particle [AdWR17, BKK18, BP13a, BBM+08, CP13, CLK18, FDS13, GH15b, Gon15, GCR16, GC17a, GS00, GS02a, GS02b, KKP14, KC15, KO17, Kus00, LHL12, LKB18, MW03, MC17, PW12, PCL+16, PM16, PP13, SRS12, Sch09, Sha03, SC02, Str00b, TKCC13, TK13, WMC11, MG95].
Particle-in-Cell [KC15, MC17, WM11].
Particle-Mesh [CLK18].
Particle-Partition [BS98].
Particles [Ste11].
Particular [Bet08].
Partition [AD18a, CD15a, FFSS13, GS00, GS02a, GS02b, KO17, LSH17, LCL18, Sch09, Sch13, YS14].
Partitioned [HP94, Jay98, RM08b, Zbl11, CS97].
Partitioning [AKA13b, AA14, BH17, tVCA10, ÇAK11, CCS97, CQZ17, D500, GKM+17, GC16a, GMT98, GS05, HL95, HK00, KK98, KPÇ12, RP01, SDNL10, SM16, Ten98, UA04, UA07, VSS14, WC00, WZSL12, XA99, YB09].
Partitioning-Based [ÇAK11].
Parts [BZ15, DZ15, HZ11, HDZ16, NN18, NL16, OD17].
Past [NH12].
Patch [BRK16].
Patchy [CCFP12].
Path [FK00a, HS99a, HW14b, KB08, Kaw15, PR09, RP01, Wal99].
Path-Constrained [KB08, RP01].
Pattern [HKT01, JF11, KV13].
Patterns [Cho00, LCBD07].
PC [CML+18b].
PCA [CSB18].
PCBDDC [Zam16].
PCG [NSJ03].
PDAE [MB02, NP08].
PDE [AB08a, AOR18, ALZ14, BPS13b, BG05a, BG05b, CPR11, EN16, GGOY02, GV07b, GHKS14, HL10, KM18, KHRvBW13, KHRvBW14, MRL+17, NMFP16, PWF18,
PST15, PMSB12, PBC05, PC07, QGVW17, RDW10, RDB16, RTH17, Smi97, SB15, YHC16, YZ05, Yav93. **PDE-Constrained** [GHKS14, KHRvBW14, SB15, PST15, AOR18, BPS13b, BG05a, BG05b, EN16, GVO7b, PWF18, PBC05, PC07, QGVW17, RDW10, YHC16]. **PDE/Linear** [KM18].

**PDES** [LM00, AAII98, ABE+17, Bjø95, BV16, BWZ10, Cas02, CL18c, DO11, DDMQ18, DMMO04, EV13, FMR06, GU17, GM14a, GLSTV16, GS00, GMPZ06, HG98, HW15, HW14a, HCRT13, HO96a, Hol99, JZ08, JGZ06, KK18, KT05, KS11, LSH17, LZ01, LNS15, Lui00, MS17, MNS07, MNvST13, MN18, MNZ15, OX17, RKvda14, SRM+15, Sem10, TV98b, VV05, WG12].

**PDF** [BK04, CVK13]. **PDF/Monte Carlo** [BK04].

**Peaceman** [CHKM13, CLST03].

**Peak** [San10].

**Peano** [WM11].

**Pedestrian** [Cha07, GM13].

**Peer** [KW10a, KW15].

**Penalization** [EKSS16].

**Penalty** [BLP14, BB08b, CMS17, GVO7b, Hes98, HG96, Hes97, LCW95].

**Penalty-Based** [YJ13].

**Pencils** [FSvdV98b, MW01, Ruh98].

**Peng** [FKQS17, QS14].

**Percentile** [BBC07].

**Perfectly** [AKLP10, AH09, BHNPR07, CM98c, Dur16].

**Performance** [BS07, BB17, BD05, CPV95, Cas02, CMV97, CDPC13, DMPV08, DHR99, EKM94, EG93, FFMT96, GH15b, GY15, GR05+15, GG10, Gu17, HLD12, HJ18a, IHTR12, JMS16, KW18, LNA+11, Mat18, PBB13, PE+17, PF94, RZTK+15, Rot96, SLvdKK14, SR12, SH14, SC98, TGS08, WRS17].

**Performance-Based** [JMS16].

**Periodic** [AP14, Bit99, BR18, BBT11, Coa12, CD06, DLY16, EHIHR00, GJSZ13, GM00b, HJMS07, HSSZ09, KLI12, LZ17a, LR98, MBGV16, PMSB12, SSH06, TP09, WJMT15, XYG001, ZZ18, Zha18, BR95, Pet93].

**Peristaltic** [TR93].

**Permutations** [May08].

**Permuting** [AKA13a, APÇ04].

**Perspective** [KKZ17].

**Perturbation** [EH18, LY98, TT96a, VXC16, Yav98, Gar96].

**Perturbations** [BBC07, ES18a, SHP07].

**Perturbed** [ADGP07, DLTZ06, EMT09, GaP08, KH18, LZ17a, LS13, MM13, Meu01, OW98, ST00, WO98, XYZ12, ZLG98, Zha18, FCR93].

**Petascale** [BBH+16].

**Petrov** [BDGK18, Bøe93, KZK17, LZK17, ST08, S10b, Yan14].

**PETSc** [KAL007, LMK16, Zam16].

**Petviashvili** [KR11].

**PFASST** [MSB+15].

**PFET** [Pip13].

**Pharmacodynamics** [AWA+18].

**Pharmacokinetics** [AHDK14].

**Phase** [AHR12, AHT17, BCT05, BH11, BFSN08, CS94, CCC17, CEC12, GL07, CLN16, CDB13, CG96, DO8, FTY15, FL08, GHMY18, GHKH15, GYW18, GZW18, GX16b, HHW00, JWH08, KSMM18, KS15b, LD12, LR12, LXS+08, MK96, MC17, PT99, PP12a, PV15, QS14, SY10a, SY14, SO09, TK13, WC03, WMC11, WMC12, Wic17, WG08, YY16, YV94].

**Phase-Field** [CCC17, FTY15, PV15, SY10a, SY14, Wic17].

**Phase-Flow** [JWH08].

**Phase-Lag-Order** [PT99].

**Phase-Space** [MC17, WMC12, WMC11].

**PhaseLift** [HGZ17].

**Phenomena** [CM09, EW00, GLT18, Opp06, RSSM18, Str99, WG00].

**Phenomenon** [Ban08b, Pir16].

**Phillips** [FM99].

**Photochemical** [VSBH99].

**Photonic** [FL13, HLM16].

**Physical** [GR04, MS04, OPB06, SG04, dBMZ11].

**Physics** [BB17, BS04, GGK+04a, HL10, HKD13, NK13].

**Physics-Based** [NK13].

**PIC** [TKCC13].

**Picard** [LM17, LR98, PMSB12].

**Picard-Based** [PMSB12].

**PICIN** [KZC15].

**Piecewise** [AH06, AC95, BC08, BC09b, DZSN09, DG17a, HCRT13, He11, LN96, LCL18, Mar94, Ser06, SL09b, SW10b, Wi09, vdDA12, Atk94, Bia94].

**Pine** [WP98].
Portioned [PYSG13]. Posed [Bur13, Bur4, KO99, Lan10, LM17, NM13, Reg96, RS02, TO15, VW94, FCR93, HR96, HO93].


Positive [BGLY05, BGM13, BM08, FEM08, HM10b, JFG10, LL98a, Lu95, MV00, MB99, Ng00, Pla15, PS01, ST14a, SO18, VSS14, WS18, Zha96, ZLWZ18, FS96, FF94].

Positive-Definite [BGLY05]. Positivity [ABR17, CLTX15, GW15, LLLX16, PH13, Sur00, UW94, YCS16].

Positivity-Preserving [ABR17, CLTX15, GW15, LLLX16, QS18, Sur00, YCS16].

Possibly [Hei13]. Post [RSA05].

Postbuckling [DP03]. Posterior [BSH14, VBA18, WBTG18]. Posteriori [ABF99, Ain07, AOR18, ATK12, BPS14b, BDW11, CP04, CP03a, CK03, CP07, Cha18, CHH15, CG17, CHH10, CSH14, Ded10, GSV18, JS10, K99, LU17, PS10b, WWY11, WRS18, WLLZ18, WBTG18, WW10, WSH14, WvdZSvB18, ZHS10, BBT11, DE9, EV13, EMT09, Hof09, Sch03, TW13b]. Postprocessed [VI15].

Postprocessing [ABC08, CKR90, DK98].

Potential [BS06b, CGK98, HM98, HA17, HR98b, LZ17b, MRT00, NFLH94, RLM99, akT18, WM93]. Potentialities [MM98].

Potentials [Bar14, BW95, CIZ18, CJO5b, DLY16, F901, G907, HJ15, LG98, OUS10, Sha12, XYGO01]. Powder [GLL01].

Power [ALRT17, DSC05, PBV18, TW17, YPHH18, CW93]. Power-Law [TW17].

Practical [GP16, Ruh98, SH01, Sun93].


Preconditioned [ABF96, AL99a, ADGP07, BCGR98, BNN07, BBEF16, Bia94, BDE08, BM1T14, BD05, CK02, CCSY98, CS14, DEC05, GM17, GH02, GY99, GY02, GD07, GP96, HCHS13, HYC16, JvGVS13, KR99, Nuy01, KAL07, KL12, KSV16, Le 09, LE17, LLX15, LK15, LMW15b, MS07c, MB17, NKLH94, NAC15, Ng00, Pav98, PT01, RG13, SMZ18, ST17b, Sm010, STA07, SM07, DH16, SLC01, SVX15, UA07, VK15, VYX16, W00, WW12, WS15, WRS17, Xue18, Yang94, YBM+18, vGE07, Jin95, Saa93, ST94].

Preconditioner [AVBT17, BJNN02, BDGK13, BDM11, BBM11, BGM13, BMT96, BT98, BT03c, Ber00a, BGS09, BL03, CS09, CDGS05, CBG12, CC02, CWX15, CG17, CPD17, CST+15, DMM05, DFG15, DKX18, Doh03, EOV05, GM15a, GrM10, HC05, HVK18, JFG10, JKKM01, KR14, KLW02, KL05, Kla98c, LS05a, LY13, LY16, LY18, MT96, MW13, NV05, NS010, OW98, PEC+14, PELY13, PV15, QSV06, RT01, RG07, Re99, RSG17, Saa96, SZ99, ST08, SRM+15, SV00, TDFT03, UI10, VV13, Vir07, WGB97, XS17, XQ94, ZNZ16, AIn96].

Preconditioners [BN05, BC10, BPS+14a, BT00a, BW11, BS05f, Bre00, BT01, BEM17, CDBH16, CDG03, CGL01, Cas97, CS98, Ch00, DDMQ18, DW05a, EHS+05, EHS+07, EN16, EPV94, FV01, GL08, G089b, GKS98, Gup17, HN06, HO94, HSTH18, HKD13, HKG07, HZ16, HL17, KO99, Kl98b, KOV17, Kmr01, KNV+16, Lee09, LS13b, LNC05, LS03, LW04, MG11, MKSG10, MNS07, MSS10, Mu95, NK13, NP10, O07, Ong97, PS08, PWZ10, PS11a, PSC+16, PSC18, PS01, PC07, RWK14, RWK15, RS03, ST16a, ST14b, Sta97, SO97, Tan96, WGS17, dVPS+17, dSL05, CT94, CC96, CMV97, DLG97, EG93, H096a, Huc93, Sch93].

Preconditioning [ABH03, AL99a, And16, And17, AD15, AA02, BSd099, BHT00, BCT00, Bia03, BS15b, Bred96, BW01, BCM03, BH14b, CGQ10, CG99, CGG07, CMS17, Che98, Che13, CLS16, CM99, CST16, Dl 97, DGK+16].
DGSW10, EHL06, Elb06, Elma99, EF15, FFS07, FFS13, GNL14, GLOR16, GH97, GG10, HS06a, HSCTP04, Ioss01, INS05, JNZ17, JF11, JFG13, JFG15, JZ13, Jom94, Kan03b, KR12a, KVMK01, KTL16, K08, Kra12, KLL+16, KT17, Lan10, LMW17, LKK18, MG07, MG09, Mal07, MV94, MPW18, MS93b, MAA98, MR94, MGW00, NV98, Not06b, Ols07, OKLS15, PKNS14, Pel18, PS11b, PP08b, PMH+16, PST15, PMSB12, PS12, PV94, PV95, QS08a, RT10, RW11, RSW10, Saa03, SWW08, ST16b, SBX+08, SM18, SW03, SCGT07, Sta94, SV01, TT07, VK13, VSS14, WZ03, WW03].

Preconditioning [WH95, YHC16, ZN16, DDBV14, vdEH05, Di95, ES96, FF94, NCV06].

Predict [dBMZ11].

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

Predictive [RVA17].

Predictor [RC06].

Predictor-Corrector [RC06].

Predictors [HMR09, MKWG15, OS98].

Prefix [Mat95].

preprocessing [BZ93].

Prescribed [BCT07].

Presence [ASZ07, BN98a, SW15].

Preservation [CHAMR06, CW06, Jay98, KW10b, PH13].

Preserve [FMR06].

Preserving [ADR14, AH17, ABR17, ALT93, BH14a, BG10, BSM16, BM08, BLR14, CTB15, CGK13, CCSY98, CBG16, Chr09, CLTX15, CS10c, CND16, DO11, DLR17, EPS18, EKLS+18, FM11, FCM12, GW15, GPsy17, GPNT18, GY17, HML18, HLM03, JX13, Jia99, JS10, JW13, JLP18, K06, KC16, KEF11, LTC13, LM08, LR99, LI01, LW16, LLLX16, LX16a, LXL11, MR17, MV01, MS07c, MR01, NBA+14, PSC18, QIS18, SY18, Sur00, SF09, QX15, YJ13, YCS16, BM17b, LS12a, Tor05].

Pressure [BCM15a, EZ11, GP99, KSS18, KL10, LY98, OV07, SMZ18, SCS04].

Pressure-Temperature [SMZ18].

Pressureless [BCM15a].

Prices [WWH17].

Pricing [FO08, HW14b, HFL11, IT09a, IT14, IT09b, LCD18, LZ16, LFBO08, OGO13, OGO16, RW07, RO12, ZK14c].

Priest [Nie06].

Primal [ACCO00, BDGK18, CGM99, DFG15, HS06d, HS08, IMS96, KL10, KR06, KM16, LN17, LD03, PLa08, WvdZSV18, Zam16, dVPS+17, Kor93].

Primal-Dual [ACCO00, CGM99, DFG15, HS06d, HS08, IMS96, KM16, LD03].

Primary [BLGL11].

Prim [BJ16].

Primitive [ADM10, HZXC16, NH14].

PRIMME_SVDS [WRS17].

Principal [GH14, HMST11, LYLC17, Nit99, YPHH17, ZZ04].

Principle [BI09, FH06, Gar00, JX13, LSU11, LI01, LLLX16, LY14, SY18, QX15, ZLS12].

Principles [AW11, OKF14].

Priorconditioned [CPP+17].

Priors [CPP+17, WBS+17].

Prismatic [CDG17].

Probabilistic [GH15a, GR04, LD04].

Probabilities [GSS12, IM98, Wal14].

Probability [BP06, BTGH12, BJW18b, GDL14, Gub96, KKZ17, LX12, LX14, PSSW15, SG04, WK06, WI12b].

Probe [EP06, LS09].

Probing [SLO13, vdBF08].

Problem [AHT12, AOR18, Ami94, ACW12, AHDK14, AHR12, Bar12b, BBG04, BC06, BK08, BACF08, BO06, Ber98a, BH11, BK00a, BB06, BL07b, BL03b, BIYS00, BB08, BCM15b, CR16, CGAD95, CK03, CGP12, CC08, CD07b, CHM02, DS17, DEP11, DSZ13, EVL17, ES17, FGS14, GH13, GKV00, GS12, GP99, GB06b, G11b, GO09, HRT10, HLD12, HT13b, HH18c, Hvd09, HvdV03, JMM10, JM17, K02b, KL06, KL10, KL13a, Kup08, KL00b, LM05a, LL98a, Le09, LR12, LLX15, LS05b, LPP09, MR04, MM15, MRT00, MRW15, MV06, NH12, NW09, OR02, OV07, OQRY18, PRS12, PV11, PMH+16, PBJ+96, QQOP99, Rad16, RH09, RSA05, SS98, SHP07, SS10a, ST00, SSF16, TY08, TET10, TX17, TV11, TD99, VP10, VV13, WW12].
XYGO01, XYZ12, XK08, YBV90]. **Problem**
[YSZ14, ZYS15, dVL10, vBD05, vVBV09, CSS93a, CW93, DS93, MMPR93, MCJN94, SRCG93, Tre97, YL93, Zha94]. **Problems**
[AJR14, ABL05, AN17, AL02, AC05, AB08a, ABF99, AEFM17, AA00, AFF+15, APSG14, APSG16, AS18, AVBTG17, AVT07, AGH13, AF15, AHDK14, AH04, AH06, AHH12, AD15, AP99, BS07, BKG16, BHI4a, BCS07, BLV18, BDS98, Ban08a, BL03a, BSHL14, BBC+01, BLV17, Bar14, BBGS13, BOF16, BGK15, BMG13, BDE18, BCC+15, BB15a, BSvD99, BT03c, BP13a, BHNPR07, BLS14, BK06, BM01b, BYL13, BF95, BFK03, BF06, BDF08, BB05, BF14, BH08, BW09, BLR14, BBM+15, BQR18, BS99b, BT13, Bou01, BWCG+10, BCL99, BM95b, BDK12, BL08b, BMM+10, BMT14, BWZ10, BH07, BDR18, BP06, BHR96, BKS98, BTGH12, BTGMS13, Bur13, Bur14, BG13, BG04, BMW17, BJW18b, BJW18a, Cab94, CW07, CL11, CSS09, CGKM16, CDG17, CPV95, CEJ+10, CBP13, CGR14, Cas05, CCER12]. **Problems**
[CT03, CW17, CGG+14, CKY98, CD02, CJO16, CJO5a, CKV99, CYY17, CG10, CK98, CN10, CCO11, CEO11, CS17, CBK18, CHH10, CDG+09, CS12, CM99, CGM00b, CDGT01, CDN16, CP17, CDQF11, DNS1, D13, DFG15, DD00, DDD10, Der08, DH95, DLZ06, DQQ13, DEV16, DKO12, DZ09, DLZ10, DJLZ96, DK03, EKM94, EVO05, EN08, EGKS94, EPSU09, EK14, EK10, EHW00, EMT09, EPV94, FGMP13, FGMP14a, FGMP14b, Fai03, FMOS17, rFS12, FH06, FTY15, FL97, FM998, FDS13, FWA+11, FS02, FK00b, FS11, For06, GJ17, GJS13, GG13, GN16, GX16a, Gar05, GU17, GH02, GK03, GK18, Gvd17, GHH07, GV12, Gia18, GGK+04a, GY02, GPHARP18, GH01, GH99, GT94, GI99, GHR12, GHR13, GMS18, GM00a, GLOR16, GV09, Gu15, GVMM14, HA01, HHM17, HR96, HSB12, HSWW08, HMN+13]. **Problems**
[HS06b, HN06, HJ18b, HM14, HTW+12, HL10, HLT16, Ho05, HR99b, HS01a, HKD13, HY10, HR99c, HHL15, HML16, HSWW08, HMC04, HV07, HLM03, IM97, JKM14, JR98, KV13, KV1+16, KB08, KR14, KCL16, KLS+15, KS94, KPT16, KMA+12, KZ00, KMW99, KO99, KGR16, Kla98b, Kla98c, Kna98, KLT16, KV12b, KL12, KC16, KH18, KG14, Kra08, KT08, KLL+16, Kra09, KSU14, Krz01, KBB17, Kus97, KGT07, LP11, LP13, LV07, Lan10, Lan94, LQR12, Lay96, LP96, LMR98, LS13a, LV10, LG07, Lec13b, LL16, LM17, LN05, L10, LWCL03, LLZ08, LM14a, LQX14, LXV+16, LZ17b, LWG10, LMT18, LJ03, LVS13, LW03, LS03, LLZ15, LS17, LT14, LW04, LWK+16, LK98, MPS18, MS07b, MM13, MAB07, MS07d, MG11, MRFV18, Mar01, MV94, MWBG12]. **Problems**
[MSS10, MS06a, MG12, MMS05, MR18, MM00, MMV98, Mn99, MHS98, NHSS13, NN03, NRMQ13, NWY10, Nvdp00, Nor07, Obs13, OB08, Ols07, OW98, PL03, PE00, PKR+13, Par17, PKD13, Pat97, PW12, Pav98, PS13, PP08a, PP05, PSA99, PMSG14, Pet05, Pic03, Pol16, PS10b, PST15, PMSB12, PRSS11, PV94, PV95, PBC05, QX08, QZZ14, RP01, RKML18, Reg96, RW07, RW13, RN17, RS03, RL13, RS02, RKvdDA14, RSG17, RSSZ08, RCC18, SP03, SG11, Sch02, SSW18, BS98, ST71b, Sco17, SIS96, SY10b, SW16, Sla02, SK05, SSC+15, SCW+17, Sta97, Sta00, SBMR18, TTT96a, TO15, TUV10, TW17, TPB17, Tsy99, UEE12, VMM13, VCO0, VSBH99, VW94, VPP05, Wa99, WL04, WR13, WZ18, WX99, Wan04, WS05, Wan12, WH15, WBS+17, WBTG18, War13]. **Problems**
[WO98, Wat04, WCHZ14, WW10, WW03, WB08b, WK03, WC17, XEG06, XLS18, XB16, Xue18, YG15, YZ11, YBHY15, YYS16, YHC16, Yav98, Yiu01, YYY11, Zbi11, ZGA10,
PVM [DFN12]. PWDG [KMW15].
PyClaw [KMA+12]. pyMOR [MR16].
Pyramid [Ain14, CW15, CW16b].
Pyramids [CW16a]. PyURDME [DTT+16].

QLP [CPS11, Ste99]. QMC [DKGS15].
QMR-Based [KMR01]. QR [DHHR09, FSvdV98b, GKK10, GE96, HWD02, Oli01, QOSB98]. Quadratic [BCS07, Ber00b, Cao07, CDY07b, Ded10, Don06, FL08, GHN01, HN06, HD15, HvdV03, HLM03, LC05b, LWK+16, MPS18, Mee01, NN05, PWGW12, PMSB12, CV93]. Quadratically [ES18b]. Quadratization [YY18].

Quadrature-Based [DGB15a]. Quadrature-Sparsification [GS18].
Quadratures [BWV15, BGR10, Car07, GNZC17, Wen08, Won16, Ye98]. Quadrilateral [HH16, LE10, SY08, Wan01, WSK99, YYY11, ZMS10, ZP18]. Quadrilaterals [D’A00, HRV11]. Qualified [LCL18]. Qualities [Hua05]. Quality [Ber98b, CPT05, CC06, CC11, EÜ09, HR98a, Joe95, KKH98, Knu01, LC05a, LC08, LJ95, Wal13]. Quotient [CP03a].
Quantics [OT11]. Quantification [Bar12a, BF16, BZ12, BJW18b, FWA+11, GW04a, GSI14, KKP14, KH14, Knu09, LNP+07, LZ04, PDE+17, Rah13, SSDN12, SRW+18, TZ14, WB08b]. Quantifying [AM04]. Quantile [Wat98, YMM14]. Quantitative [DTM05, HFL+16]. Quantities [MNvST13]. Quantity [GV07b, LQX14]. Quantization [KY05]. Quantized [DKO12]. Quantum [ACdS+11, BOR97, BKMM10, CL18a, CBDW15, DZSN09, DZ12, FGL09, GRPG01, GKM+17, HJMS07, Jah04, JP14, LR10, Lee13a, ML11, RN14, SZ06, SO10, YHS07, vWBV09].

Quantum-based [GKM+17]. Quasi [ABL05, BN00, BBT11, CPP+17, CK07, DFLZ96, EZ11, HW14b, HHL00, HTW+12, HH11, IT09a, IK10, IT14, JSPC97, Kito, KSD10, LZ99b, Lin16, LD03, Man05, MM14, MS06a, MC94, Pol16, RNV17, SL10, SM17, SX16b, SV01, Ton94, Wan12, WWH17, YZ05, CGS+94, Fre93, BW93].

Quasi-Monte [ABL05, HW14b, HHL00, IT09a, IK10, Wan12]. Quasi-Newton [KSD10, SL10, SM17]. Quasi-Newtonian [MM14]. Quasi-Optimal [SX16b, Lin16]. Quasi-Orthogonal [KH00].

Quasi-Spherical [BN00]. Quasi-Static [HH11].
Quotient [BLV18, HvdV03, Ste02]. Quotients [IW14].

R [MIS03]. Rachford [CLST03]. Radar [GH07].

Racial [AMA98, BN98b, BLB00, CBN02, DFS17, DFC14, FM12, FP07, FLF11, GD07, JK10, JK15, JP16, KL13b, LHH13, LSH17, LSW17, Pir16, Pla15, WRS08]. Radially [ADKM03, MT09]. Radiation [BW01, HG02, HHT03, Kan03a, KR14, PP05, SY09]. Radiative [BK98, BK99, GP18, HHE10, JLY08, ...
PKR+13, RBH06, YCS16. Radiography [HFL+16]. Radiotherapy [CDM+13]．

Radius

[Gug16, HOY03, JP11, RMD08, Ros15]．radix [Goe97]．Radon [ACD+08b, Man99]．

Random

[ABE+17, BJ01, BF16, BvW09, BCV13, CJGX15, DHP17, DW15a, EPSU09, GS14, Hri03, Hri05, HTH+16, IK10, JK12, JLP18, KKV13, Kw15, LSW02, Lan94, LLZ15, LK04, MNvST13, MC94, MNZ15, OVV17, PS12, RDB16, RNR16, SG04, SM15, TZ14, TG04, TCCK18, UEE12, Ver96, WR13, WZ18, WI12b, XO5, XT06, YCZ13, YR12, ZRK15, ZS04, LL94, YGCP96]．

Random-Sampling [BCV13]．Randomization [DLY17, Gu15, MOHvdG17]．Randomize [BSHL14, WBS+17]．Randomize-Then-Optimize [BSHL14, WBS+17]．

Randomized

[ABW18, BS18b, CRT11, CWD13, DG17b, GLR+16, GNZC17, HNR17, LL03b, LXdh16, Mar16, MV16, RDB16, SX17, WBGT18, WSX17, Xxdh+17]．Randomly [EMT09, LZ04]．Range [BFJ+15, BKK18]．

Range-Separated [BKK18]．Rank [AAB+15b, ABLM17, AP01, BK16, BKS16a, BKS16b, Bor07, CA16, CGMR05, DM13b, Dkx18, DS17, EL18, FWA+11, FM16, GKT+17, GU17, GNl4, GOSl2a, dMGF17, GCD18, GE96, HGZ17, KS014, LE17, LS15b, LJ17, Mar16, MV16, PW15, Pen00, PRM97, PC17, QQQOP99, RO15a, RO18, RAT18, Sco17, Sz00, SB15, VD10, Wan97, WLL+15, vNLB04, KS16, SSC+15]．

Rank-Deficient

[PRM97, QQQOP99, Sco17, Wan97]．Rank-One [AP01, WLL+15]．

Rank-Reduction [LE17]．Rank-Revealing [GE96, MV16]．

Rank-Structured [Mar16]．Ranking [CPP+17, CLKLP11, DMM+08]．Rankings [FLM+05]．Ranks [MC09]．Rapid

[AD96, FDFW07, KLZ+06, SLC01]．Rare [GL15, LLZ15]．Rarefied [St11, TPW09]．

Ratchet [BBM+08]．Rate [AdVC00, NN12]．Rate-Based [AdVC00]．Rates

[BF13, Kol99, Red09, Ros15a]．Ratio [Bar12b, Le 01]．Rational

[AH18, AN17, AT15, BG17a, BG17b, BM01b, BHK14, CM195, Dp07, DGB15b, DkZ09, DLZ10, FNTB18, FS08, GSS12, GVMM14, HO18, KXS18, NST18, Rul98, TT06, VMM13, XS16, XS17, ZFwCW15]．

Rational-Order [HO18]．Ratios

[DV98, GsT12]．Raviart [Ain07]．Ray [GHS+09, HFL+16, JLB18, KLS08, LB06]．Rayleigh [BLV18, HvdV03, Ste02]．Rays [SCM10]．RBF

[LWSW17, AF15, KCL16, KW11]．RD

[BFJ+15]．REA [Vog16]．Reaction

[AN17, ABR17, BOR97, BHK12, CLST03, Cdg+09, Ce16, DMD+12, EO15, EO16a, EFHL09, FDE+06, GHH07, GK13, HG98, Hkf+13, HS16, KKB+08, KWW13, LSW17, MTV16, MPS09, PDH09, PS08, PS13, QDKW18, RC06, SDNL10, SBP04, SM94, TTS08, TK13, TM14, VS04, WL01, WRSZ18, Zbi11, ZRTK12]．

Reaction-Diffusion

[BHK12, CLST03, EFHL09, FDE+06, KKB+08, LSW17, MPS09, PS08, PS13, RC06, SM94, TTS08, TK13, WRSZ18]．

Reaction-Induced [KWW13]．

Reaction-splitting [MTV16]．Reactive

[APvDG12, Dor98, KW13, MMS05]．

Reactor [BK04, Zas95]．Real

[AT15, DH01, GG09, Gug16, HLT797, In99, Lz99a, LMi4c, Rav05, Ros15, SYZ015, SWU16, WLK06, Zhe07, ZH2D17, BZ96, LL94, Pe93, Tre97]．Real-Time

[LML4c, Rav05, SYZ015]．Real-Valued

[SWU16]．Realignment [IT14]．Realistic

[BGSV15, BBR08]．Reality [HvdG96]．

Realization [BTY08, LT09]．Realizations

[PSF12, SD10]．Rearrangement

[HJ18a, Wal13]．Rebalanced [BB17]．
Recipe [tVČAU10]. Recirculating [OW00, BY93]. Recompressing [BM95b]. Recombining [KP17]. Reconstruction [AGI10, ADH99, ABB+04, BV03, Bar12a, BNFS13, CCSS03, Che05, CJN13, CGMV05, DGP10, DB07, DF03, GN14, GJ05, GB12, HHS+09, HLMR96, Jac03, KTB14, KHKL16, LFB13, LFJS14, Mar94, NWY10, SH14, TBKF14, WYGZ10, WM+07, DG95]. Reconstructions [AS05, MS03]. Recovering [AIL05, CIZ18]. Recovery [AHH06, BS08, DCSO10, GP16, dMGF17, HL18, LCBD07, MZWG16, NZZ06, NWY11, NN05, NNT13, PABG11, SSF16, ZN05]. Recovery-Based [SSF16]. Rectangular [AIV98, APC+04, BACF08, BF06, CKV99, DO15, HK00, Sar98, TX17, UA04, VN03]. Rectilinear [Zen16]. Recurrences [BF01, FN94, RG98]. Recurrent [Wan97]. Recursions [GD03, LCJ96]. Recursive [AKA13a, HG12, IBWG08, BF06, CKV99, DO15, HK00, Sar98, TX17, UA04, VN03]. Recursive-Based [NSJ03]. Recursively [DMSW10]. Recycling [AdSGC12, ABdSF15, KdS05, NG18, OKdSG17, PdSM+06, Soo16]. Red [Yav96]. Red-Black [Yav96]. Redefined [Lan12]. Redistancing [EE14, NKM10, SF99]. Redistancing/Level [NKM10]. Redistributed [AD06], Redistribution [KY05, MRSS14, ROM18]. Reduced [AB17, AF11, AK04, BKGV16, BK16, BEEM18, BGL06b, CHDH16, CHMR10, CST+13, DDMQ18, Ded10, DHO12, EPR10, EF15, GV12, GV98, GM11, HJ18b, HZ12, KP10, LQR12, LM14b, LM14c, MR04, MS13, MMT15, NRMQ13, OKdSG17, OS14, OS15, PGW17, PS10b, PSS17, QGVW17, Rav02, RMC12, San10, SDNL10, SBK18, SPKB13, SHP07, VP14, WM05, WSH14, XBC96, XMR18, YYS16, Yan14, Yan18, Zim14]. 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, AB110, AK17, AP97, AN16, AGI16, ABTZ14, BS05a, BPR04, BB08a, BBBG11, BB15b, Ber98a, BF1N17, BK17, BK11, BS18b, BTGW08, CTB15, CJC07, CS10a, CBG16, CGHT14, DKPS17, DLZ10, DSZ13, EKLS+18, EO15, EO16a, FMOS17, FSvdV98b, GSO17, GOS12a, GPA18, GH14, GSW13, HK099, HSS08, HS01b, IT14, IA14, KA95, KT15, LU17, LS13a, LE17, LWG10, LHR+18, LYL17, MRS16, MS18b, NG18, OS14, PW15, PM16, Reu99, SvG10a, Sma04, SBMR18, TLN14, WWH17, ZBFN17, ZZ04, ZFLB15, ZCC+16, ZS04, dSGK+15, CMV97, MS93a]. Reductions [ML11]. Reference [LLZ09]. Redicientlib [BB17]. Reduced [YGS16, HG00, JR10, Lee14, RKL07, Sha99, Wan01, An96]. Redefinition [ABK16, AHK+17, AM+11, ABH03, BB17, BBWS94, BM11, BWG11, CH17, CH18, Cha18, CC06, CC09, CC12b, DLY17, Dax03, DgS16, EPV94, FR10, FCC10, FHL13, GT98, GR05b, HMM08, HO15, JTT08, JP97, LC05a, LJ95, LHR18, LU17, MRS16, MS18b, NG18, OS14, PW15, PM16, Reu99, SvG10a, Sma04, SBMR18, TLN14, WWH17, ZBFN17, ZZ04, ZFLB15, ZCC+16, ZS04, dSGK+15, CMV97, MS93a]. Reductions [ML11]. Reference [LLZ09]. Redicientlib [BB17]. Redefinition [YGS16, HG00, JR10, Lee14, RKL07, Sha99, Wan01, An96]. Redefinition [ABK16, AHK+17, AM+11, ABH03, BB17, BBWS94, BM11, BWG11, CH17, CH18, Cha18, CC06, CC09, CC12b, DLY17, Dax03, DgS16, EPV94, FR10, FCC10, FHL13, GT98, GR05b, HMM08, HO15, JTT08, JP97, LC05a, LJ95, Mau95, Ong94, PP05, SBK18, SR18, SL09a, SSB08, TB99a, Tra95, WC00, WCH14, WI12a, ZJC12, ZAD+16, Zie12, TV93]. Reflection [JLY08, Mau95, PDC99]. Reflector [PTvR+14]. Reformulation [BHST08, Du16, You94]. Refractive [TBKF14]. Regime [BS18a, FCZE14, HH11, HFL11, JW13]. Regimes [BJM03, Lee10a]. Region [CC12b, GTK+17, KHRvBW13, KHRvBW14, NNH99, Pla98, QGVW17, RS02, SKJ+13, YM07, ZS18, dSK11, Sar97]. Region-Dependent [SKJ+13]. Regions [AL99a, And08, AHT17, AIV98, DP98, GM98, LCN14, NAS13, WRS08, ZSB16]. Registration [AL99a, And08, AHT17, AIV98, DP98, GM98, LCN14, NAS13, WRS08, ZSB16].
Regression [ABE'17, BGM09, GLSTV16, HNR17, Hei13, NMFP16, SX16b, Str93, TTY16, YMM14, You94, LL98b]. Regular [JLY08, NL99, Gu93].

Regular [JLY08, NL99, Gu93]. Regularity [BH07].

Regularization [AL97, AL99b, BC02, BDR18, BMR13, CDBH16, CR04, CT03, CLNZ16, CEO11, CK15b, CJK10, FGH097, FM99, GG18, HR96, Han95, HW01, HA08, Hwa07, IJT11, IL16, JG02, KHE07, KO17, LFB13, LM17, LLL08, Man99, NNT13, O'L01, PRM97, Reg96, RVA17, RS02, Sco17, SWU16, SJD14, TY08, DG95, FCR93, HO93].

Regularization-Sensitive [Hwa07].

Regularized [APSG14, BCC+15, BMV13, CJY16, CGM00b, Cor01, ES18b, HJLZ18, KO99, KL00b, Lan10, NP14, Str00a, TWK18, WMUZ13, XKWY08, ZCC+16, dSK11].

Regularizing [DSC05]. Regulator [MPS18]. Reinforcement [GHK14].

Reinitialization [GB98]. Reissner [CG07].

Rejection [HGP14]. Related [BGN08, BtVC+10, DG98, FK00b, FT03, HHSW11, KK99, KL00b, Lan10, NP14, Str00a, TWK18, WMUZ13, XKWY08, ZCC+16, dSK11].

Regularizing [DSC05]. Regulator [MPS18]. Reinforcement [GHK14].

Reinitialization [GB98]. Reissner [CG07].

Rejection [HGP14]. Related [BGN08, BtVC+10, DG98, FK00b, FT03, HHSW11, KK99, KL00b, Lan10, NP14, Str00a, TWK18, WMUZ13, XKWY08, ZCC+16, dSK11].

Relative [DP09]. Relatively [BDvdG05]. Relativistic [DW97b, NH14, WT16, McG95].

Relaxation [AK09, ADM10, BCT05, BM08, BR09, BLR14, BF10, BCK+18, CPH14, CNP12, CCM08, CCR12, EHN12, FMB13, GS98a, GR00a, GR17, HPS06, HV96, In99, IMS96, JV96, JP95, LW97, Mar09, Mu99, RL17, RWA95, SB98, SV00, TZ95, Ver96, WH13, WX17, ZLWZ18, ZKV99, Dax93, Lei93, Pen93]. Relaxed [CEHN08, GGL07, MMM00, PR01, TPW09].

Relaxing [CKQ14]. Relevance [BZ12].

Reliability [MS06b, SE13]. Reliable [CF00, CVW06, GS02a, SE11]. Remap [BCV13]. Remapping [GTK+17, LL08, MCV17, WMC11, WMC12].


Remeshing [DFS17]. Removal [CC08, MO00, AGC96]. Removing [PC07].

Reordering [LM05a, OKLS15]. Reorderings [Saa05].

Reorthogonalization [GL03]. Repeated [HTH+16]. Repetition [WMI09].

Replacement [vdVY00]. Representation [CCA03, DGS08, DCOS10, Ett16, Lf99, LJ17, SDNL10, TW03]. Representations [AAB+15b, BM00, CML+18, DLY17, DNP+04, FNTB18, IK10, MC09, PSDF12, PSC+16, PH16, SG04, SW10b].

Reproducible [DTT+16]. Reproducing [TY08, XKWY08, DR93a]. Requirement [BBSV10]. Requirements [BT03c].

Rescaled [DFQ14]. Rescaling [BM00]. Research [GL10, JF11]. Reservoir [BLV17, ICCVEKV17, SCS04, DS95a].

Residual [AB02, ADR14, AT17, BC09a, BGH13, CW12, EG18, HS17, HY10, KMW15, KA95, LRS02, Liu96, LN04, LD03, NFFP18, NM13, PS02, PMR16, Rad16, SV01, Ton94, VK15, VYX16, ZW94, vdVY00, Bia94, CGS+94, Eus97, Fre93].

Residual-Based [KMW15]. Residual-Free [HY10]. Residuals [LS02, vdVY00].

Resilience [HGRW16]. Resilient [AGSZ16, SRM+15].

Resistive [AMMR10, AMM+10, ABM+13, ABC+16, CST+13, PSC+16]. Resistivity [DSZ13, PDTVM08, vdDAA12]. Resolution [AMVR17, ANP00, BAF00, CCOS03, DHE13, DMD+12, FHL13, FM07, Gob08, HBL05, Kup98, Ld12, LN+07, LS95, LFB13, LOL13, LT00, MR02, PL06, Ros06b, TW05, BSSM16]. Resolution-Optimal [AMVR17].

RESPA [MIS03]. RESPA/Impulse [MIS03]. Response [BTGH12, CVK13, RS13, SSDN12].
Response-Excitation [CVK13].
Responses [Cab94, Lin06]. Resputtering [GST+99]. Restart [AGSZ16, KLY07, LXV+16, TE07].
Restarted [ARMNW10, BCR03, BR05a, CGL+13, DCP11, EPE05, FG98, JN10, SSW98, VL10]. Restarting [BGH13, GGPV10, Mee01, Mor02, MN11, RF07, SSW98]. Restarting [GST+99].
Restoration [GST+99]. Restart [AGSZ16, KLY07, LXV+16, TE07]. Restarted [ARMNW10, BCR03, BR05a, CGL+12, DCP11, EPE05, FG98, JN10, SSW98, VL10].
Results [ABBM98b, CLMM00a, CLMM00b, CKS01, FGMP13, FMM98, HR99b, KR12a, KLRU17, KP07, LMPQ03, LZ02, SM18, TEE+17, VW98, MT97a, NCV06, FGMP14a].
Resurrecting [Ros96]. Retarded [GJ07]. Return [CLNZ16, EBSS+11, KBV09]. Revealing [GE96, SWW08, MV16].
Reverse [Den97a]. Reversibility [CK07]. Reversible [BLR99, Cas05, GL15, HS97, HS05a, KL00b]. Revisited [CKOR16, Day98, IHTR12, SCDM+10, LZ94]. Revisiting [Ban08b, CW97, HR05, KMR01, LN04, MN11, SG95, Soo16, SO10, CW97].
Rigidity [BBBV13, BFC01, CFSZ08, FHH+18, JvGV13, PM15, SU15, TU10].
Rigidity [BBBV13, BFC01, CFSZ08, FHH+18, JvGV13, PM15, SU15, TU10].
Rigidity-Body [BBBV13]. Rings [HRV11]. Risk [GJM94, RVA17]. RISOLV [TET10]. RKDG [CALL13, DY06]. RKFIT [BG17b]. RLE [SNB16]. Road [GPZ17]. Robin [ACF09, GK12, NV08, QX08]. Robinson [FKQS17, QS14]. Robot [EMK94]. Robust [AHZ17, AAB+16, AKM+14a, BLV18, BCT00, BT03c, BDvdG05, BR05b, BLGL11, BCM15a, Bol03, BB09, BGMR01, CA16, DEV16, DSYG18, Egg18, EN16, GL03, GGLT00, GKT09, GLOR16, NN17, Oet99, OR02, OGO13, PBP14, RL17, RSNR17, RX18, SM17, ST16b, SKF18, Slo02, WL97, WSC00, Wan07b, WWY09, Wat04, WGF08, Zam16, ZS04].
Robustness [CFH+00, Gup17, HJ98, LMR98, Man95, WI12a]. Rock [GYZ11, AC08]. Rod [LFPW08]. Roe [Pel18]. Role [Dur16].
Roosbroeck [Gä10]. Root [CGS02, GGM01, MOSS17]. Root-Node [MOSS17]. Roots [BMV05, Bre17, GLR07, Goe94, KV96, KMV05, LX08, PH16].
Rosenbrock [TS14, VS19]. Rostami [Gug16]. Rotated [HBL05]. Rotating [BL07a, DK10, DSRMK17, GD03, KV12a, Lan98, Mit08, OR02]. Rotation-Based [Las98]. Rotational [BBBV13].
Rotationally [SK05]. Rotations [Drm97, GV13]. Rotor [XY05]. Rough [DNP17, EL03, HHS+16]. Rounding [RW97, ROO08a, ROO08b, ZH09].
Routines [HJ18a]. Row [GG05, GHS+15, GKN18, GCD18, Oli01, Dax03].
Rights [ARMNW10, BCC198, CGL+13, CB98, HR05, KMR01, LN04, MN11, SG95, Soo16, SO10, CW97].
Row-Merge [Ol01]. Rows [HNR17]. Rule [BJW18a, CPP+17, GG18, LNP15, SO15]. Rules [Alp99, CKN06, GM98, GPTV15, LL03b, MC05, Str95, WS06, Wan07b]. Run [HR89a]. Runge [AGC96, AM17, AGH00, BM17b, BR09, BPR13, BBM15, CHAMR06, CGAD95, Cas05, EM96, GMM15, HMR09, Jay98, Ket08, KCB17, MNS07, McLe07, MRS14, OS98, PT99, PR05, PKD13, Pat97, Pir16, QS05a, QS05b, RM08b, SS93a, TVA02, TL12, TP99, VS04, Zbi11]. Running [DP09]. Runs [SSDN12].

S [AC08, PM03]. S-ROCK [AC08]. S-Transform [PM03]. SA [BFM+04, BMM+10]. Saddle [BSSW13, D05a, DGSW10, EG18, GV12, IM98, Kla98b, Kla98c, KOV15, Krz01, KV16, LSS03, LW04, PHJ11, RH09, ST14b, WW03]. Saddle-Point [D05a, DGSW10, GV12, KV16, LW04, RH09, ST14b]. SAI [MG09]. SALSA [FLM+05]. Sample [BGMW17, Kaw15, Kaw17, KL94]. Sampler [FL18]. Samplers [FP14]. Sampling [AK15, AHDK14, ABCP08, AWA+18, BSHL14, BBC+16, Botu01, BV16, BCV13, CS14, CIZ15, CGM00b, CHM02, CML+18, DGS08, DHN17, ESS+11, GLR+16, GNY18, HJLZ18, INZ17, JBL18, Kaw17, Kaw18, LLZ08, LLZ09, Mar16, MTM08, Miu08, MDG+18, OKD16, OVV17, PF12, PHJ11, QDKW18, Sch11, Wall14, WBTG18, W12b, ZWH+14]. Sandpiles [FV06]. SART [IJ08]. SAT [Gas13].

Satisfying [ADM+15, Bre17, LLLX16, LY14, ZLS12]. Saturated [FK97, SCC17, SCM10, Sta00]. Saturated-Unsaturated [FK97]. Savart [PRM09, Ros06a]. Saxton [XS08]. SBP [Gas13]. Scalability [CFH+00, GRS+15, HJ98, PDE+17]. Scalable [APSG16, AVBTG17, BMP14, BGDK18, BWG11, DTT+16, GTK+17, Gon15, KMA+12, KL15, KPPS14, KC16, MZW09, MZWG16, MPS09, OKF14, PL12, PSC18, Sch10, WLX+13, XOMN10, YC14].

Scalar [AD14, GGS08, Mar94, NMAB11, TLE12]. Scale [AVBTG17, BCR03, BS05a, Ban08a, BSSW13, BHT09, BPSV15, BTOY08, BB05, BCL99, BTWG08, BTGH12, CEJ+10, CV15, CCQ16, CN10, CP15b, CS17, CSW10, DDMQ18, DJT08, DKZ09, EHL06, FWA+11, FB05, FG+08, GLSTV16, GM00a, HMAS17, HPS08, KV13, LT09, LWG10, MWBG12, OPRB06, OKF14, PS18, PKR+13, RS02, RM08a, SBR06, SW08W, SWB16, SR18, SSW12, SSJB17, Sim07, SV15, VMG09, WM05, WT01, WRS17, Xue18, YPN+01, YGB+05, YMM14, ZYSL15, ZCC+16, BHP94, CV12, ST94, TW93].

Scale-Bridging [PKR+13]. Scale-Free [KV13]. Scaled [BCP15, GNO14]. Scales [BMP16, RDP08]. Scaling [ACdS+11, AMH12, BPS+14a, BCK16, KL15, RO18, SDR15, SJ14, Kor93].

Scaling-Squaring [SIDR15]. Scalings [JLP18]. Scanned [KT014]. Scanning [BC06]. Scattered [EO16b, ILW17, KP07, LLHF13, LR99].

Scattering [AIL05, BL03a, BS05b, BB10, BC06, BHNPR07, BER17, BCH12, BS06a, CCC18, CGM00b, CHM02, GH15b, HV07, JLY08, LAG14, LZ17a, Lee10a, LLZ08, MG07, MZ94, NS06, PS10b, Rah00, RZ03, SPS18, SM18, Zha18, ZB12, MMM+95, WM93].

Scheduling [AKK18, DGR+17, MD15]. Scheme [AH18, AT17, ALRT17, AD18b, ANP00, Aru12, AR99, ABB+04, BM11, BCT05, BSM16, BM08, BC12, BF06, BHS16, BHK12, CCFP12, CFR05, CR05, CK15, CH94, CJ05a, yCWHJ12, CFJT18, CG96, CPR11, DW97a, DW98, DY06, DFS17, Dax03, DKKP14, DL17, DGLW16, DB07, FKQS17, FF05, FCM12, GW15, GLSTV16, ...]
GLL01, GB06b, GG05, GX16b, HCR13, HJP04, HRS12, HLW13, JNZ17, JS10, KK98, KSM118, KQW04, Kup98, Kup01, KL00a, KPW17, LNP+07, LE17, LSW17, LM08, LPR02, LSV13, LXL11, MAB007, MS06b, MW15, MEF09, Nat08, Pet01, Pj96, Qs06b, RY03, Ros96, SZ06, SY08, Slo02, VL97, WDE+99, Wan04, WYT18, WM11, WT16, Xu99, YJ13, Yu01, dLRT09, McG95, ZzSpH14, NBA+14.

Schemes

[AB02, Abg09, ADR14, AKPRB08, AD06, BGL08, BLH02, BT06, BBC+01, BAFF00, BM08, BCF13, BPR99, BP12, BS04, BM10a, BM10b, BH08, BR09, BPR13, BHT11, BC99, BL03c, BL05, BKBT18, CFM11, CKZ15b, CZK16, CPPR12, CHMK13, CCM08, CGK13, CGV18, CLAT10, CYZ17, CLTX15, CHL16a, CHL16b, DMBB10, DEP11, DBSR17, EF05, FGS14, FM11, FSvdV98a, FMB13, FMO8, GB12, GCB15, GZYW18, GSW17, GKR16, HKYY16, HOY03, HS05b, HSWW08, HP06, Hes98, ILK05, Jia14, JT98, JP00, JSZ13, JX13, Jin99, JW13, JLZ16b, KS14, KW10b, KNP01, KPP07, KPP9b, LS12a, LE10, LV13, LL09a, LDS11, LV10, LM05b, LM12, LPR00, LNSZ06, LN01, LN03, LT00, LW03, LSZ11, LPS13, LY14, LP03, Lu95, MV09, MNS07, MB13, MMS05, MR01].

Schmidt

[CCJ07, GL03, Ste08].

Schreidinger

[ADKM03, ABK11, BJM03, BCM11, Bru15, CCG14a, CCJ07, CRV14, DLY16, FJ99, GRPG01, KL13b, LZ17b, LWZ17, Liv08, ZsSpH14].

Schur

[BS05e, BG05a, BG05b, Bla03, CGL01, DS95a, DKXS18, FCR93, HVK18, HSF07, Kra12, KLL+16, LS05a, MG11, Mal07, MRT00, MMA98, MFPG18, OV07, PE00, PSLG14, SS99, WB99].

Schur-RAAS

[LS05a].

Schwarz

[And08, ADM10, BT03b, Ban08b, BGOD08, BC10, Bre00, Cai94, CGK+98, CS99, CL11, CPW15, CC12a, DK11, DGGG09, DGL+16, DGL+12, EDGL12, GMN02, GR05a, GK12, GX16a, GZ16, Gar96, GKV00, Gar05, GH99, GC97, HJN17, HR07, HKR16, KC16, Li94, LSC18, LNS15, Liu00, Liu01, Mar09, MPS09, PZPR07, PS08, PS11a, PBC05, PC07, QX08, ST00, SCGT07, ST96, TDFT03, WB99, WH13, WX17, Zha94].

Schwinger

[ABIGG16, LY18, ZNZ16].

Science

[JKR08, WRB+15].

Sciences

[SBMR18].

Scientifc

[BBC+16, CC18, HBB+16, KPÇA12, SS03].

Score

[Ng94].

SDE

[ABE+17, BM17a, S14].

SDEs

[BGS17, KS17, Vi15].

SDP

[BTY08, LT09].

SDP-Based

[LT09].

Seamless

[GC17a].

Search

[CKXX18, GKL08, HKT01, LST07, OW02, W13, XB16].

Searches

[COS06].

Searching

[CD15a].

Second

[AVZ13, AdWR17, BBSW16, BS05a, BGN07, BB15a, Bng09, Bng15, Cas05, CK15, CYZ17, CM99, DM13a, DZ15, Dl14, DG09, DAE02, DHP17, DUM14b, EIL01, GW15, GBCT10, Gia18, Gy05, GZ18W, GZW18, GL10, GPN18, H13, HL09, HH00, K11, K09a, KO05, KCB17, KP05, Kup98, KP17, KL11, LP11, LN03, MWY17, NL16, ÖB05, RL10, RM08a, ST03, TVA02, VSBH99, Vi14, YY18, ZL15, ZYS15, ABCR03, Atk94, Sche94, Sche95].

second-

She94, She95. second-kind

[ABC93].

Second-Order

[BS05a, BB15a, Bng09, CM99, DM13a, DG09, DAE02, DUM14b, EIL01, GW15, GBCT10, Gia18, GYW18, GN18, GL10, GNP18, H13, HL09, HH00, K11, K09a, KO05, KCB17, KP05, Kup98, KP17, KL11, LP11, LN03, MWY17, NL16, ÖB05, RL10, RM08a, ST03, VSBH99, ZL15, ZYS15, ABCR03, Atk94, Sche94, Sche95].

Second-Order

[BCR93].

Section

[Ben13, Ben15,
Ben17, DJM16, GH07, KY14, TBC+11.
Securities [IT14]. Sediment [BSS09].
Sedimentation [BRBT12].
Sedimentation-Consolidation [BRBT12].
Seeking [Sta07, SM07]. Segmental [ABKS16].
Segmentation [CMSS06, DMN08, HHMDC18, LB07, LB08, ZC106].
Segmentations [HLT16]. Segregated [GNOR14, HSF07].
Segregation [BRBT12]. Seidel [AM95, Day98, HNR17, Ver94].
Seismic [AKM+14, BU15, BTGMS13, MWBG12, PDC99, vLH14].
Selected [LYL+11, dVL10]. Selection [AdVC00, CZ13, DG16, JMNS16, Lin16, MS07a, SX16b, Wei99, YYWY18, dVPS+17].
Selective [GL03, Gup17, RT10]. Selector [LY13, WMUZ13].
Self [Bou01, De 12b, GHK14, LY13, PDTVM08, PCL+16, WMUZ13, Sta97].
Self-Adaptive [PDTVM08, PCL+16]. Self-consistent [LY13, WMUZ13].
Self-Learning [De 12b]. Self-propelled [GHK14]. Selfadjoint [CPV95].
Semantic [ZS99]. Semi [ALJ99, ACF09, BT06, BCT05, BSMM16, BP13a, BF14, CF07, CMSS06, GC16a, GRL10, GX16b, HMR09, KS13, Kor15, LL02, Lay03, MB17, MO10, RG09, RLM+00, ZTBK18, dFL05, HO96a].
Semi-Discrete [BT06]. Semi-Implicit [ALJ99, ACF09, CMSS06, GRL10, GX16b, HMR09, LL02, MO10, RG09, ZTBK18, BCT05, GC16a, KS13]. Semi-Lagrangian [BSMM16, BP13a, BF14, CF07, Kor15, LL02, Lay03, MB17, RLM+00, dFL05].
Semi-Toeplitz [HO96a]. Semianalytic [MS07e].
Semiblind [BDR18].
Semicirculant [HO94, HO96b, HBS00].
Semiclassical [BJM03, BG07, FGL09].
Semicoarsening [BFJ00, Den97a, Sch98, WO98].
Semiconductor [ANP00, BG07, GJ08, JW13, Kla98a, Kla99, MT96, RWA95, Sar98].
Semiconvergence [EHN12]. Semidefinite [Gri94, HGZ17, KOSB16, ST14a].
Semidiscrete [BP13b, KP12b, KL00a, KNP01, KPP07, TWK18].
Semilinear [AW15, BBH18, BWZ10, BWH99, CJO5a, GLSTV16, KK18, LZ01, ST00, WGT14, Xu94].
Semiorthogonal [Sta07].
Semiseparable [WLX+13]. Semismooth [BU15].
Semipiloted [dMGF17]. Sense [BW96].
Sensing [DFG15, KBV09, YZ11, YLHX15].
Sensitive [Hwa07]. Sensitivities [AL07, GK13, MNBK10, MM14].
Sensitivity [AL97, AL99b, BDHS10, CGDD11, DGHL12, DTV13, HS99a, LLL08, MO10, PVC17, PSDF12, PST15, QQ06, SF99, TKW08, VOG17, YWS16, ZJX14, ZC106].
Sets [CHX15, CWD13, FD03, HMST11, LZ13b, MDC08, NX13, PD15, PVK16].
Shadowing [CV94, HJ07, Van95, Van00].
Shah [DM08]. Shakhov [CLQ12].
Shaking [GL15]. Shallow [AK09, ABB^+04, BBSV10, BM08, BP12, BL05, BT16, CLP08, FS01, FM11, HK02, KP09b, Lay03, Le 05, LRP07, LP08, LDS11, Mar09, MSS12, RLC08, RLM^+00, TC12, YCC10].

Shallow-Water [BP12, CLP08, Le 05, LRP07, LP08, LDS11, RLC08, RLM^+00, TC12].

Sham [DLY17, LY13, YMW07].

Shannon [OGO16].

Shape [ACLZ15, BCH12, CC12a, CDM^+13, CGMV05, DD12, DMN08, GLL^+15, GHHK15, GMV99, HT13b, HS06b, Haz08a, Haz08b, MBGV16, PWF18, SSW18, Sch18, SW17, SSJB17, vdZvBdB10b].

Shape-Linearization [vdZvBdB10b].

Shapes [DCSO10].

Shared [Gon15, Til15, NP93a]. shared-memory [NP93a].

Shared/Distributed [Gon15].

Sharp [BFSN08, GvdV17, XLG^+16, ZD09].

Sharper [Van00].

Shaw [ZLY^+18].

Shear [GT98, TW96].

Sheets [ALMR17].

Shell [LCH99, Nie16].

Shield [BCMM03].

Sherman [BC15].

Shift [CG17, LPS10]. Shift-Invert [LPS10].

Shifted [BKL^+17, BvG15, BDdSM11, BBdB18, CG17, FG98, RSSM18, SBK13, Soo16, WWJ12, YBYH15, vGEV07].

Shifted-Inverse [YBYH15].

Shifts [DK09, DLZ10].

Shock [CC98, DW97a, DGLW16, FL97, GGK^+04a, Hwa07, Men94, WL97, Wu99].

Shock-Induced [CC98].

Shooting [CG14, HM10a, Lam97, Ráun93].

Short [CW16b].

Shortening [BM11].

Shot [CC12a, Gub96, Haz08b, Haz08a].

Shot-Noise [Gub96].

Should [Che16].

Shrinkage [BL08b, MF06, WYGZ10, YYWY18].

Shrinking [ZDZ16, ZLY^+18].

Shuffling [Gre03].

SIAC [vSRV11].

SIAM [BEM94].

Side [BCCI98, CB98, SO10].

Sided [BB15b, LMT18].

[ARMNW10, BT03b, CGL^+13, HR05, KMR01, LN04, MN11, SG95, Soo16, CW97].

Sideways [EBR00].

Sierpinski [BBSV10].

Sigmoidal [Yun03, YK03].

Sign [BSS09, GM17, Gar97, ROO08b, SQO02].

Sign-Definite [GM17].

Signaling [SAE10].

Signals [BBR08, GG09, HTH^+16, SWU16].

Signatures [DG17a].

Signified [FMS17].

Signorini [CB18, DEP11, Rad16].

Silicon [Bi09].

SIMD [BPT93, CP95, KHW^+14, MH05].

Similarity [Pel18].

Simple [Abg09, BMTZ13, Bre96, Du11, GNOR14, GLQ18, HT14b, HKV18, HS94, KV96, LHN96, Mac98, NP13, Ren15, SA99, SvG08].

Simplex [Che05, HDZ16, WI12a, WI12b].

Simplectic [K14].

Simplified [Mau95, Os07].

Simulation [RKLM18].

[AL99b, MBGV16, MDC98, MM07, SAE10, WGF08].

Simulating [Ama98, AL07, BB13, BST08, BLV17, BG07, BI09, BLGL11, BBM^+08, BEOR17, CCM05, CLQ12, CM09, CC98, CLP08, CBCR14, CLK18, ICCVEKV17, CBF17, CVE13, DMR17, DN97, Do98, DP16, EA08, EFHL09, EKSS16, EdDP09, FMMT96, FL04, GM17, GHTW00, GY06, GL15, HA01, HS16, HBB^+16, HK03, HPS08, Ho04, HSSZ09, J14, KKB^+08, KKK02b, KP06a, KLT06, Kof04, Kös07, LL03b, LY98, LLZ15, LNA^+11, MTV16, NK13, NNH99, ODN17, Ökt05, PDTVM08, PP13, QS14, RWA95, SB13, SCS04, SD11, TKN08, TK13, Ten98, VBA18, Wal18, WZ18, WLK06, WPT17, WFAP15, XW05, YC14, DS95a, MT97a].

Simulations [BBSV10, BHvST14, BPS13a, BPSV15, BRK16, CL03, CW06, CWG10, DDGS16, Don06, EHL06, FHH^+18, FTY15, 82]
FY14, GHK14, GST+99, Gob08, GM14b, GC16b, Har08, HKC+04, HJP04, IP06, JP01, KKP14, LJJ09, LP04, LHR+18, LZ04, NK15, NKTY08, NH14, OKF14, PS10a, Ros97, RHSK11, SM17, SXK17, SN08, Str99, SRW+18, TSTM08, WSA16, WPGR13, XCS16, XLG+16, ZSD+10, YGCP96.

Simulator [PYSG13]. Simultaneous [AA14, BCH12, BS96b, HS06b, LD03, YSS07]. Simultaneously [AMHR15, CC10, ZGA10]. Sinc [LB11, RT11, SO15]. Sine [AMHR15, BDZ13, Di97, Zhe07]. Sine-Gordon [Zhe07]. Single [BS06b, CCF14, CS94, CJ05b, Far01, MKWG15, Nov15, ZGA10]. Single-Needle [CS94]. Single-Pass [CCF14]. Singly [KW15]. Singular [Bet08, BC02, Car97, CGHT14, De12b, DLTZ06, Dm97, GV13, GP18, Gu15, Hago0, Hel11, JN10, KO13, LS12b, LWZ13, MHS98, NV98, Ste99, Str95, SJ14, TT96a, VVM12, Vir07, WS15, XEG06, YR98, Yv98, Yun03, YK03, ZW03, BD93, BZ93, BR95, Gav96]. Singularities [AMVR17, CKS01, CWZ07, XEG06, ZMK17]. singularity [Li94]. Singularly [KH18, LLS13, MM13, OW98, ST00, WO98, XYZ12]. Sinks [WLE+00]. SIRT [EHN12]. SISC [Lan12]. SISO [DSZ13]. Sivashinsky [APS12]. Sixth [HKYY16]. Sixth-order [HKYY16]. Size [BBC07, HS05a, Man99, CMV97]. Skeletal [RDP08]. Skeletonization [HG12, MXB15]. Skew [BGLY05, BGL06a, DLP05, Gas13, JK10, MW01]. Skew-Hamiltonian [MW01]. Skew-Hamiltonian/Hamiltonian [MW01]. Skew-Hermitian [BGLY05, BGL06a]. Skew-Radial [JK10]. Skew-Symmetric [DLP05, Gas13]. Skinny [CGHT14]. Slab [AHT12]. Slaun [GV09]. Slater [ISS06]. Slender [RS03]. SLEPc [CR16]. Slip [BH00b]. Slit [Ama98, HT09]. Slope [MB13, Zen16]. Sloppiness [vLH14]. Slow [CE17, LSU11, RS16]. Slow-wave [RS16]. Slowly [KKV13]. Small [AIL05, AILP07, BM95b, Bre00, BRW10, DW17, DW94, KL94, May08, MT97b, RW06, Ste11, WZ18]. Small-Sample [KL94]. Smallest [BS05e, JN10, MB99]. Smeectic [CYZ17]. Smeectic-A [CYZ17]. Smith [Pen00]. Smoluchowski [FL04, MNBK10]. Smolyak [CM13]. Smooth [AAH06, BV98, CJK15b, Cho05, DG17a, Hel11, KO17, Atk94]. Smoothed [BFM+04, BM+10, BOPGF06, DMM+10a, EO16b, Gon15, PoH09, ST08, TY11, TY15]. Smoother [GNOR14, LROG17]. Smoothers [BFKY11, LDM00, Yav93]. Smoothing [BGMR01, CXXZ18, FJP99, HJS18, HA08, JK11, LNS96, Ng94, RG98, TGC94, WW17, Wou94, Yav96, ZW94, Ena97, Gu93]. Smoothness [MKRK13, SCDM10, vSRV11]. Smoothness-Increasing [MKRK13, vSRV11]. Snapshot [IW14]. Snapshots [Wel17]. Sobol’ [HAG17, JK08]. Sobolev [DK10, GRPG01, NR98, RN95, Ste00]. SODEs [BRW10]. Software [AS94, DGM16, EM96, HML+04, KMRW97, LKVW10, ZAD+16]. Software-Based [LKVW10]. Soil [BS14]. Solid [ASZ07, BK00b, BCG+10, KCZ15, LHL12, PRS12, PM15]. Solidifying [KVMK01]. Solids [CG96, Tra95]. Solitons [LC05b]. Solution [ABLS05, ADGM98, AP97, AL99a, ANP00, ABI00, BS08, BCR11, BJI00a, BJNN02, BK98, BCC198, BK99, BL03a, BD04, BLB00, BGK15, BSS09, BSSW13, Ber98a, Ber98b, BMSV97, BK00b, BBC07, BIYS00, Bre99, BC99, BC08, BC09b, BWZ10, BBR08, BKS98, BTGH12, CG18, CKS01, CGL+13, CR04, CLPS03, CH17, CH18, CP05, DD00, DKKP14, DB09, DA02, DKO12, DS17, DKZ09, DZ13, DHZ18, DTYY18, EAS11, EM99, EHW00, FL97, GS16, GLL+14].
Sound [CC98]. Source [AGH00, CGK13, Gia18, GHR12, GHS18, HR99a, HCHS13, JW05, SX11, WKM*07, ZTM*16].

Source-Term [ZTM*16]. Sources [AKM*13, KBV09, WLE*00]. Source-Term [ZTM*16]. Sources [AKM*13, KBV09, WLE*00].

Space [ALLK15, And16, BO17, BK99, BBH18, BC09a, Ber95b, BP13b, BV16, BRZ14, BDE08, BTGW08, Bur97, BHK12, BH16, CPW15, CDG17, CSB*18, CMS94, CHO12, CFM96, CCG14b, DDMQ18, Day98, Dk00, DJT08, DT00, DW15b, DMD*12, DB07, DGvdZ18, EKSW15, FDE*06, FMB13, GS98a, GN16, GOV06, GMPZ06, HP14, HK16, HHW00, HV95, HC98, HHLW15, KV12b, KS14, Kye12, Leh15, LSC18, Moo00, MCV17, NHSS13, NXDS11, NT18, PNW16, PvdVg17, PBC05, RF10, SV08a, Str94, TY08, TW03, VBA18, WMC12, WB12, WTG14, YTL11, YYS16, YHC16, Yan14, Yu01, ZK14a, ZZ04, ZzSpH14, ZLTA15, AE95, WMC11]. Space-Filling [BH16, GMPZ06]. Space-Fractional [ALLK15, DW15b, PNW16, WB12, ZK14a].

Space-Invariant [BDE08]. Space-Time [BO17, BBH18, BV16, CDG17, GN16, LSC18, NT18, PvdVg17].

Space-Transformation [HC98]. Spaced [GJLX16, Har11]. Spaces [DW17, KKR16, KC16, LMM17, MS13, MNvST13, PF12, PV08, QZZ14, SW17, SP16, W12b, YZ17]. SPAI [JZ13].

Spalart [DHE13]. Spanning [PP97]. Spark [CHJ16]. Sparse [AKA13a, AGL10, AKA13b, AA14, ADL*12, AP04, ABB*16, BK07, BW18, BSH16, BB08a, BGM13, BM95a, BM96, BT98, BT00a, BT03c, BNP15, BBFJ16, BAS09, Bit99, BC13, Bör09, BVW09, BS99b, BT99, BGR01, BCMM03, BG12, But13, CS99, CH17, CCA03, tVCAU10, CCQ16, CS98, Cho00, CLN12, CV98, CKLN98, CFM98, DS00, DLP05, FUNB18, FS11, GN14, GLS13, GG05, GS98b, GHS*15, GKN18, GOV06, GDL07, GBDD10, GCD18, GH97, Gug16, GC16b, HKK*13, HHL15, HJ18a, HC05, HK00, HP94, HRS10, HWS05, HV07, JNZ17, JFG15, JZ13, JP08, KU18, KAU18, KSM14, KH*14, KU12, LSW02, LOSZ07, Lee13a, LSC03, LJ17, ILY*11, MW01, MW13, MDM15, NK15, NJ14, OA93, PZZB15, Pen00, PCD17, RT10, Ros15, RS99, Ruh98, Saa96, SZ99, SS99, ST17b, Sc017]. Sparse [SY10b, SY12, Sun96, SX11, SO18, TW03, TB99b, TTY16, U04, UA07, VM13, WZ03, WYGA10, XS17, Xia13, XD*17, XZ14, Yan94, YSX17, Yin09, YB09, ZGA10, ZTRK14, ZLZW18, AS93, AMB*94, BZ96, EL93, MH95, MS03b, NP93b, PS03, Rag95, RG94, Rot96, Sch93, MG09].

Sparse-Approximate-Inverse [MG09]. Sparse-Dense [ST17b]. Sparse-Grid [BVW09]. Sparse-Sparse [CS98].

Sparification [APSG14, BFG*16, GS18, PCD17]. Sparsified [TY15]. Sparsify [LY18].

Sparsity [BL08b, Cho00]. Spartan [Hri03, Hri05]. Spatial [AD06, Boz09, CMM*07, CLAT10, DTT*16, JU06, KKP14, MTM08, Min02, PV08, WP98, Zin13]. Spatially [AK04, BLMR02, CCA03, FUNB18, HTH*16, N98, NH99, OV17]. Spatio [Yan18]. Spatio-Parameter [Yan18]. Spatiotemporal [BF16, LC05b].

SPD [GRT05, SIS96]. SPDs [ZRK15, ZK15, BAS09]. Special [Bal00, Ben13, Ben15, Ben17, Bre17, CVW06, DJM16, Elmi98, Elmi00, GL18, GW04a, GLR07, JKR08, KY14, Tun10, TBC*11, Vas07, Wan01]. SPECT [IJ08].

Spectra [LW97, Mön08, VR14, XS16, BW03]. Spectral [AG18, ACLZ15, BDD*97, BT03a, BM03, BL17, BS05e, BG98, BK00a, BK10, BEKM16, Bja95, Bla97, Bla98, BLA99, Bru15, BOPGF06, CGQ10, CG99, CDG03, CGG07, Cas97, CSG17, CH*04, Che05, CCO11, CEO11, CF05, CG07, CG11, CRV13, DM16, DJT08, DAE02, Du16, FTY15, FMRR13,
spectral [Nat97, She94, She95, She97, Tan93, BT97].
Spectral-Galerkin [DAE02, She99, She94, She95, She97, BT97].
Spectrally [BWV15, CBG12, HO18, JL11].
Spectrum [AK15, BS06a, GK03, ZB12, Gut93]. speed [DS95b].
Sphere [BL07b, CF97, DLTZ06, ES00, FF05, FP07, GPS12, Lay03, LS00, MCB18, MN18, RLM+00, TDTF03, TW16, WL11, Wan13, YCC10]. Spheres [GJLX16]. Spherical [AA00, BLS06, BN00, FF05, For95, KMS15, Li99, MK08, Nie16, RT05, She99, TW16, WTW17]. Spherically [WT16]. Spin [BL08a, CL18a, CBDW15]. Spin-1 [BL08a]. Spline [AGI10, ABP18, BF95, BFK03, BF05, BF06, Bit99, BB15c, LS00, MS07d, Ng94, Red99, Sum95, TGCG94, TV98b, Bia94, HHRV93]. Splines [BLS06, HHLO7, LS94, L213b, Wo094, AE95, Gut93]. Split [BAFF00, HJMS07, Lee13a, LK15]. Split-Step [HJMS07]. Splitting [AB16a, BA05, BQ06, BGLY05, BGL06a, BJ03, BS05c, BCM11, CGGGS15, CZK15b, CFSZ08, CS18, CLST03, CDB13, CJ10, CJ95, DJT08, DMD+12, EO15, EO16a, EL18, FKQ17, GLQ16, GLQ18, GKR16, HL09, HiH18, KQW04, LL00, LSN17, RX17, RS16, Sha03, WL97, YHS07, Yun03, MTV16]. Splittings [JP95, MPREW98]. SPMR [EG18]. Spray [BCM15a]. Spread [BNP15, JBL18]. Spreading [Ros96]. Spring [CJ09, LP03]. Spring-Mass [LP03]. SQP [PBC05]. Square [AKA13a, FCZE14, GGM01, L217b, MT97b, RW06]. Squared [CCG14a, Gro02]. Squares [AMMR10, AMM+10, AMM+11, ABM+13, AV14, ALMR17, AD15, AMT10, BL02, BG13, BT03c, BS99b, BW96, BKMM10, BL03, BM17, CLMM00a, CLMM00b, CP95, Car10, CAS11, CP17, DMMO04, DMM005, DG98, EHS+07, FMM98, FGO07, FS11, FN06, GW17, GI17, GKK15, GNYZ18, HLMM06, HLM+09, H017, HY10, HY14, HJLZ18, KMS15, LSH17, LMMR00, LFB13, Lee14, LM15, LMM17, LRS02, LD11, MW17, NP14, PE00, PBTB15, QOQ099, RBD16, ST16b, ST17b, S017, SX16b, Sta00, Str93, TZ14, TBO10, Wat98, WPT17, XS16, You94, ZCC+16, ZWZ+13, ZNX14, dMHJ00, ten95, BR95, Dax93, NP96]. Squaring [AMH12, SDR15]. Stability [AD07, AW11, AP93, ACF09, BYK05, BM10a, BM10b, COZ96, CRS+18, CH08a, CKLP11, CM19, CS10c, DSB99, DP07, DHE13, DR13, Dur16, ES18a, FCF14, Gug16, HP94, Hig95, HV04, IM97, Ket08, KP07, LPR98, LC05b, MR02, NH12, OB08, RP01, Ros15, RX18, Sch05, SNS97, SNB08, Str93, WL08, WTW12, ZSB16]. Stability-Corrected [DR13]. Stability-Preserving [Ket08]. Stabilization [ABD+17, BBSW15, BSSW13, BS06b, LNP15, LR12, ZHS10]. Stabilized [AVZ13, BH14a, BM11, BBGS04, BCLT15, BBKT15, BL07b, BR12, Bur13, Bur14, BCM15b, CSW14, EHS+07, Gar97, KS99, NG18, SV03, SSF16, ZS02]. Stabilizing [CD06, HiH18, VW98]. Stable [Abg09, AN16, ABP18, ABB+04, BN98a, BS05d, BHT11, BDK12, CGGGS15, CWX15, CYZ17, DM13a, DS16, DMM14b, ERSZ17, FM12, FP07, FL11, GHMY18, GMV99, GZW18, HT14b, Hel11, Hes98, HT00, JL11,
KG14, KW16, KM12, LW12a, LLHF13, LLX15, MC10, NH13, NS06, PCFN16, PSC+16, PJ96, SY14, SO09, TKCC13, WM05, YY18, ZYLW16, ZK15, HG96, Hes97.

Stack [SNB16]. Stack-RLE [SNB16].

Stage

[AKK18, BCG+10, LD16, OSh98, SW09].

Staggered [AKK18, BCG+10, LD16, OS98, SW09].

Standard [CPW15, FKTW10].

Starting [YC99].

State

[BD04, Bla03, BK00b, CDG+09, Day98, DD00, Elm99, FKQS17, FL02, Gär09, GMSB16, HS06b, HLLM15, HYC16, JSPC97, KH14, KLW02, KK16, LG97, LT14, MN18, Öb05, RSW10, JHS93, Pen93, Ver94].

State-Of-the-Art [GMSB16].

State-Space [VBA18].

Static

[BL08a, DP17, ZDZ16].

Stationary

[CCF14, DN97, FGM08, Gro02, KOS16, LLP98, PEC+14, RW13, RL13, Sar98, SK05, SSF16].

Statistic [CPT05].

Statistical

[AE08, AC08, ACVZ12, AVZ13, AB16a, BCT07, BBP13, BS16b, BV16, BRW10, BB02, BML07, BDW11, BJW18a, CK15a, DDM14a, CCG14b, CML+18a, CML+18b, CVE13, DNP+04, DT16, DP16, EW00, EFHL09, EPSU09, FS12, FS13, GH15b, GYZ11, GM98, GLMN15, GKR16, GM11, GNZC17, GK13, HHS+16, HMAS17, HAG17, HJX15, IP06, IT09b, JX03, JCL07, JLP18, KK13, Kaw18, KS11, KCB17, KHRvBW13, Kue12, KK16, LRD+04, LE17, LCD18, Li17, LKB18, LT12, MS07d, MW08a, Mau05, MBG12, MW03, MEHL16, MNvST13, MT97b, MT06, MS07c, MS18b, MW16, NX12, NJ14, NGX14, NT18, OKSD16, OL98, PW12, PSLG14, PSMG14, PE12, PP12, PP12c, PS17, QS08a, RW06, RKLvDA14, RV10, SDNL10, SB13, TNL14, TUV02, TLE12, TCK18, UUI10, UEE12, V14].

Stepping [AM17, CS10b, DG09, EJL03, GGS08, GMM15, GNM15, KT05, KGSS10, KR11, Ll10, MN18, ODN17, QTZ11, SNB08, LK93].

Stepsize [BLR99, BB02, KW10a, RW06].

Stepsizes [HS97].

Stepwise [AdVC00].

Stiff

[AC08, AZ13, BJ01, BQR18, EJL03, GK03, HG98, HR99a, KT05, KW15, KK16, KR12b, LG97, LT14, MN18, Öb05, RSW10, JHS93, Pen93, Ver94].

Stirred [BK04].

Stochastic

[AE08, AC08, ACVZ12, AVZ13, AB16a, BCT07, BBP13, BS16b, BV16, BRW10, BB02, BML07, BDW11, BJW18a, CK15a, DDM14a, CCG14b, CML+18a, CML+18b, CVE13, DNP+04, DT16, DP16, EW00, EFHL09, EPSU09, FS12, FS13, GH15b, GYZ11, GM98, GLMN15, GKR16, GM11, GNZC17, GK13, HHS+16, HMAS17, HAG17, HJX15, IP06, IT09b, JX03, JCL07, JLP18, KK13, Kaw18, KS11, KCB17, KHRvBW13, Kue12, KK16, LRD+04, LE17, LCD18, Li17, LKB18, LT12, MS07d, MW08a, Mau05, MBG12, MW03, MEHL16, MNvST13, MT97b, MT06, MS07c, MS18b, MW16, NX12, NJ14, NGX14, NT18, OKSD16, OL98, PW12, PSLG14, PSMG14, PE12, PP12, PP12c, PS17, QS08a, RW06, RKLvDA14, RV10, SDNL10, SB13, TNL14, TUV02, TLE12, TCK18, UUI10, UEE12, V14].

Stochastic

[WXK04, WGT14, WRB+15, WI12a, WI12b, ZY02, ZY02a, ZY02b, ZY02c, ZY02d, ZY02e, ZY02f, ZY02g, ZY02h, ZY02i].

Stochastic

[WXK04, WGT14, WRB+15, WI12a, WI12b, ZY02, ZY02a, ZY02b, ZY02c, ZY02d, ZY02e, ZY02f, ZY02g, ZY02h, ZY02i].
GNOR14, GK18, GP99, GRL10, GR5+15, GHST08, GW98, GK08, GO09, GLOR16, GM15b, HG96, Hes97, Hes98, HLM+09, HBS00, HQH+16, ISG15, JL11, JVG12, JK05, JK00, KS99, KLW02, KL85, KW07, KGG10, KL06, KL10, KGR11, KG09, KL08, LW12a, LHL12, LLP98, LL97, LL05a, LL00, LC95, LLL14, LL15, LL03a, LL00, LCW95, LLL08, LRT11, LKBJ18, Lui01, LRGO17, MMPR93, MS08, MS18a, NSK10, Not17, OR02, OQRY18, PCFN16, Pav98, PT01, PP08b, PRR05, PS12, RX17, RW11, RG09, RSG17, SS98, SWT00, Sma01.

Stokes [SSF16, SU15, SS95, TL15, TLLK09, TP09, TC99, VY09, WWY09, WWY11, YSZ14, dVL10].

Stokes-Type [GO09].

Stokeslets [Cor01].

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

Storage [CF07, CC18, Ket08, KMSM14, LW14, RY03, RLG98, War13, WM11].

Strassen [HMvdG18].

Strategies [AGSZ16, BW01, Cha18, CML+18a, CML+18b, GS97, HSCT04, MS07b, MO12, Mo05, MM95, MM98, RWW14, Stw90, Wab05, WZ03, vdVY00, Wat94].

Strategic [CGDD11, DMD+12, HR99c, HGM14, MS07a, OST11, Pir16, QZT11, TP18, VVM12, dDBV14, vdHCDD15].

Stratified [GLSTV16].

Stream [AH12, GV16, Kup01, PM15].

Stream-Tube [AH12].

Streaming [Ah12, GV16, Kup01, PM15].

Streamline [Kös07, SCM10].

Strengthened [LLZ09].

Stress [Del14, GP99, Min02].

Stresses [Nie16].

Stretching [DR13].

String [WS07].

Strip [QSV06].

Strong [BCK16, CS01c, GE96, KM11, Ket08, Sch18, WG14].

Strong-Stability-Preserving [CS10c].

Strongly [L15, WTY18, vD03].

Structural [BTB05, BT06, CT15, RMB00, SP02, Smi97, EL93].

Structurally [HK00].

Structure [Ah17, ACF09, BQ08, BC10, BB15a, BM17b, BCK16, CT15, CB16, CDFQ11, DLZZ17, DLY14, DJP00, EKLS+18, FUNB18, HMLH18, HLM03, Hwa07, Jay98, KV05, KPPS14, KS16, LQR12, LNC05, LYL+11, LKN08, MKWG15, MW01, MTM08, NV08, PE00, Pel18, PVS11, RW13, Ruh12, SM17, WMU13, ZZW14, ZV18, vBdB05].

Structure-Preserving [CBG16, EKLS+18, HMLH18, HLM03, MW01, BM17b].

Structured [BKS16b, BD05, CD07, C99, CX08, EZ11, FBN06, GLR+16, GNL14, GG03, HG13, KKT13, KKS13, KKF11, KS11, Kin08, LE10, LYL+11, LXH16, Mar16, PS12, RKLN07, ROM18, Ros15, SR18, SWX16, VM13, VX18, Xia13, XXH+17, ZJC12, ZW13, Zie12].

Studies [Bent05, GMPZ06, IS17, RAB+14, RC06, Saa03, SS12, SM18, TW96, WLX+13, YPN+01].

Sublinear [VL10].

Subject [vdB05].

Subproblem [ZH18].

Subproblems [HD15].

Subset [CBCR14, VBA18].

Subsonic [BS18a].

Subspace [BM01a, BCL99, CD13, CBY18, CS11, CS14, CDW14a, CDW14b, DLY17, DL10, EEO01, GY02, GOS12a, Gu15, HL18, KdS05, KSU14, LMRS15, Lin16, LW13, LRR8, NG18, OW00, PS02, SM16, SW01,
SS03, Soo16, Sta97, VP11, Wal99, WYGZ10, ZYSL15, vNLB04, vdVY00, Wei94.

Subspaces [BDF08, CKBT16, DDF00, DKZ09, GW17, KA95, PsSm+06, XKZ95].

Substantial [CD15b].

Substructuring [BL04b, Doh03, HS99b, HZ16, KXS18, KR12a, Sta97, YGB+05, Smi93].

Subsurface [FK97, Sta00].

Subtraction [EVLW17, WKM+07].

Subvector [HS17].

Successive [GB98, Mit08, WZ03, CWA14, DZ15, HD11, HDZ16, McL99, NL16, ODN17, PS03, ROO08a, ROO08b, Rum09, ZY50, ZH09, Hig93].

Sum of Squares [dMHJM00].

Summation [And99, BC02, BZ15, Doh03, HZ11, HDZ16, McL12, Nie96, NN08, NL16, ODN17, PS03, ROO08a, ROO08b, Rum09, ZY50, ZH09, Hig93].

Summation-By-Parts [BZ15, HZ11, HDZ16, NN18, ODZ17].

Summations [MXYB16].

Sums [BGM09, HMAS17, KW11, PPT11, dBMZ11].

Super [Gos12b, Jay98].

Super-characteristic [Gos12b].

Superalgebraic [BH07].

Superblock [CWC08].

Supercharging [AMT10].

Supercompact [BW00].

Superconductors [DK98, HXB11, WCHZ14, Yam02, ZN05].

Superconvergence [DK98, HXB11, WCHZ14, Yam02, ZN05].

Superconvergence [DK98, HXB11, WCHZ14, Yam02, ZN05].

Superfast [VXCB16].

SuperGlue [Til15].

Superlinear [CD98].

Superordering [NP93a].

Supernodes [JGF15].

Superoptimal [DEC05].

Superposition [Gar90].

Supersensitivity [GK00].

Supply [CPR11, FGH+08].

Support [COS06, EZ11, XAW17].

Supported [Pla15].

Surface [AKS05, AHK06, ADM+15, BN98a, BTG12, CL18b, CH09a, CFM96, DFS17, DGP10, GPK04, GKK04b, HA08, KCS15, Kös17, LTC13, LL97, Li03, LCL18, MG11, MCT+05, MT99, OQRY18, RS13, SV08b, SO09, TK13, WkZ15].

Surfaces [BB09, BBK06, Brn18, CW13, CW14, CM15, CW16c, CL18c, CDW14a, CDW14b, DPF15, DP07, DGO03, Far01, FJP+11, Gra14, KTB14, KBK+08, LZ17a, LSW17, MR09, NNW09, OX17, PHA18, Ren15, Say15, SKF18, YH17, Zha18, Atk94, RN95].

Surrogate [CGDD11, LX14, RS13, vdHCD15].

Surrogates [LM14a, YGC96].

SVD [BP97b, Hoc01, NH13, Nov15, OT09, VVW94, WS15, WRS17].

SVD-Based [VW94].

Sweep [LY18].

Sweeping [ALZ14, BMR10, GLQ16, LY16, PEL13, ZCL+11].

Swelling [WAF15].

Switched [GPA18].

Switching [HFL11, KL06].

Sybile [BDP96, ST16a].

Symbolic [GDL07, HS18, MBM+16].

Symbols [JF16].

Symm [CP05].

Symmetric [ARMNW10, ADKM03, AH04, AT15, BF01, BOR97, BM12, BDvdG05, BS96b, ÇAK11, CCAS98, CMS17, CPS11, DLP05, DMPV08, DJLZ96, ERS17, FEM08, FS08, GPP95, GWBM03, Gas13, GY02, HS06a, Hago2, HLD12, HJS99, JGF10, JLY08, KS18, KSU14, LZ99b, LS13b, LSS03, MV00, MB99, May08, MC09, MDM15, NH13, Nat98, Ng00, Oet99, PS18, SLvdG14, SK05, SO08, TDO9, VD19, V814, WT16, XYG01, ZL09, FSc16, Lan93, LL03, L294, MS93b, TRE07, WM93, YL93].

Symmetries [MS18b, ALT93].

Symmetrized [HJN17].

Symmetry [CCSY98, MMT15, SLvdG14, SA97, EL13, WAS94].

SYMMLQ [Duf98].

Symplectic [BCF01, BCR99, KLS+15, Man05, MC10, MMW13, PM16, S93d, CSS39a, CSS39b, LMSS97].

Symplecticity [LXL11].

Symplecticity-Preserving [LXL11].

Synchronization [AD17].

System [AK09, AMMR10, AMM+10, AMM+11, ABM+13, AV14, ALM+17, ABP18, BCCI98, BS05d, BDZ13, BS18a, LBM03, CCM05, ...]
CLMM00a, CLMM00b, CLPS03, CLP08, CLS16, CF05, CGII1, DY06, DLV17, EGKS94, FV06, FM998, GH18, Gär09, Hig95, Kim08, KLJ10, KG18, LMMR00, LMM17, LRGO17, MKG10, MR01, MPS09, PS08, Rav02, Rav05, RGG06, Sch05, SBND11, SV11, TKCC13, WS95, XBC96, ZGA10, ZGG17, BK14, MG95.

Systematic [HTH+16, SvdGP16, XW05].

Systems [AH18, AM04, AKK14, AH17, AGI16, AH09, AKPRB08, AKT16, AR99, AL99b, ATK12, AK04, BGLY05, BS05a, BW18, BKL+17, BK98, BK99, BPR04, BvG15, B08a, BM01a, BDdSM11, BMM11, BGM13, BCF01, BSSW13, BM95a, BT98, Ber00a, BPR99, BFN17, BL07b, BCP15, BB03, BR09, BPR13, BBD18, BS96b, Boz09, Bre99, BC99, BHP98, BCM03, BC08, BC09b, BK11, BTW08, BGL06b, BEPW98, CS99, CL18b, CGL+13, CSS01, CB08, CCG07, CJH11, CH17, CH18, Cas05, CPPR12, CS96, CCS08, CN99, CBG16, Che98, CPS11, CDY07b, CBDW15, CW12, CVE13, CE16, CPD17, CD06, DM13a, DLY14, DB98, DH01, DRFNP07, DB94, DKS18, DS14, DGSW10, DTT+16, Elm98, Elm00, Ema10, Ett16, FSvdV98a, FT03, FDE+06, FG98, GJLX16, GDS14, GGOY02, GNL14, GRT05, GrS+15, GR04, GW98].

Systems [GG03, GSW17, GG05, GPA18, GKK10, GV98, Gric94, GPS95, GSPY17, GS16, GS07, GP18, GPM98, Gric94, GPS95, GPSY17, GS16, GW00, HR05, HS06a, Ha90, HTMM15, Har11, HJ07, HSS08, Her08, HS17, HZ10, HP94, HW00, HG18, HLS98, HEH14, HZ16, HL17, HSCTP04, JFG10, JJZ13, JW05, JW08, Jou94, KG+08, Kas95, KP12a, Kaa97, KLR98, KBK+08, KPI13, KSB11, KMR01, Kof04, KSV16, KN+16, KK16, KWP17, Lbg05, LM00, LV98, LV13, LNP+07, LSU11, Lee09, LM15, LS16b, LPR02, LN05, LPR98, LW16, LS17, LN03, LXhH16, LMMW04, LNA+11, MB02, MRT00, MPW18, MSM14, Meu11, MW13, MC05, Mou00, MS18b, MGW00, NN17, Nat98, NP08, NSJ03, NFPP18, NM13, OD12, PNW16, PrDSM+06, PW15, PM16, PVK16, PV17, PW98, Pet99a, PH16, PS01, Rah96, RG07, RVA17, RSW10, RM08a, RT99].

Systems [SZ99, SS99, SBK13, ST08, ST17a, ST14b, SHP07, SE11, SG95, Sm04, Smith97, SG04, Sy98, So06, SC98, Sta94, SO10, Sun95, TTS08, TT07, Ton94, Tor12, TS14, VC00, VM13, VK13, VSS14, VTD12, WLX+13, WTW09, WSH14, X17, Xu04, Yan94, YDF97, YPF98, YWL17, Zha97, dDBV14, dSL05, AS93, AM95, AP93, BHP94, CGP93, CN93, CTQ, CGS+94, CC96, CW97, CMV97, Fre93, Gre93, JS93, Yav93].

Systolic [BPT93].


Target [HWS05]. Task [ABC+14, GKM+17, MDM15, Tii15, YS16]. Task-Based [ABC+14, Tii15, GKM+17].

Task-Scheduling [MDM15]. Taxonomy [BBGS04].

Taylor [AM18, Bar05, Hei13, Kup98, SID15].

Tearing [LOSZ07]. Technique [ABKS16, Bla97, BEOR17, BEPW98, CL03, DS97, HHL15, HHD18, LNS96, NHH99, OGO16, OVV17, RSA05, SP03, WiOH08, WZSL12, Yun03, PSB+06]. Techniques [APvDG12, AD99, AB16, BRR18, BvW09, CDGS05, CP05, CP07, CBS00, CDGT01, DS00, EF15, FBF15, GSG98b, GG10, HW01, HM14, JFG13, KTB14, KMR01, KM98, Lan10, LU17, LKK18, MMV98, MFG18, PKNS14, PABG11, Pla98, SS99, SBR06, SW03, SF08, T096, WB08a, YHC16, ZWH4, ADR95, CS97, Di95].

Teko [CST16].

Temperature [Don06, SMZ18]. Tempered [GLW18, HP14, ZAK15, ZK15]. Templates [HTR12]. Temporal
[Ber95b, BRK16, GS16, LL00, MKWG15].

**Tension** [BN98a, LL97, MCT+05, SO09].

**Tensor** [BS03, BS07, BKK18, Beu05, BAS09, BEKM16, BKS16b, BS99b, CQZ17, De 12a, DM13b, DKO12, FF95, FEM08, GNL14, GOS12a, dMGF17, GKK15, HJ18a, HRS12, HMvdG18, JMR17, KKT13, KKS13, KK09, KKF11, KS11, Ksu15, KSV16, LS00, MMRN15, MSL13, Mat18, MBM16, Ose11, RO15a, RDB16, Ste16, DH16, VMV15, VS17, ZCK12].

**Tensor-Structured** [GNL14, KKT13, KKS13, KKF11, KS11].

**Tensor-Train** [BEKM16, Ose11, VS17].

**Tensors** [BK07, BK16, CCQ16, DGP18, GU17, KU18, KP17, SL10, SLvdGK14].

**Tent** [GSW17].

**Term** [AGH00, FN94, GvdV17, HS97, Kla98b, RG98, Wan07a, ZTM+16].

**Termination** [FL08, KMT98].

**Terms** [CGK13, HR99a, JW05, Nak98, EW96].

**Tessellation** [BGL06b].

**Tessellation-Based** [BGL06b].

**Tessellations** [DG03, DW05b].

**Test** [CPT05, Han95, JL03, JL05a, Lin06, LW03].

**Testing** [WRB+15].

**Tether** [TP09].

**Tetrahedra** [Ber00b, DK98, PC98].

**Tetrahedral** [AMP00, Ber98b, BH16, CC11, FKW13, GMvdV18, GR05b, HHT00, JHJ12, JLR15].

**Tetrahedralization** [Wall13].

**Tetrahedron** [Ong94].

**Textbook** [BSA13].

**Texture** [BEG+08].

**Th** [PP12b, PP12c].

**Their** [CH02, DW05b, GK03, GVS12, LS94, LL00, MC94, PP13, Sch18, ST00, CC96, DG95, DG99, GM00b, SHP07, TS94].

**Themes** [DJM16, KY14].

**Theorems** [ET01, LV98].

**Theoretic** [BGMW17].

**Theoretical** [CGAD95, Wan07a, Ber97].

**Theories** [HSF07].

**Theory** [AG18, BGL08, BEG+08, BM10a, BH07, CXY10, CPM96, CDW14a, CDW14b, DKPS17, FGMP14b, FC14, HJN17, HDZ16, KKP14, LW12b, LY13, NKLW94, Rub12, RCL018, SS03, UWY+15, WL13, dSL05, CW93, ED95].

**Theory-Based** [KKP14].

**Therapy** [CDM+13].

**Thermal** [BST08, DS09].

**Thermally** [IR98].

**Thermoacoustic** [CK07].

**Thermodynamic** [BHV05].

**Thermodynamics** [YS16].

**Thermostats** [LS15b].

**Thick** [Lee10a, LXV+16, SSW98, ZVF18].

**Thick-Restart** [LXV+16].

**Thin** [AA00, JL16a, KWW13, LS94, Lee10a, LS12b, SM18].

**Third** [ABMR11, AS06, Ca07, KL00a, LY14, SC02].

**Third-Order** [KL00a].

**Thomas** [Ain07].

**Thousands** [BT03b].

**Three** [AILP07, AA02, AR12, AS11, BBSW94, BBK15, Beu05, BBC07, BM03, BKS13, BCM15b, CH18, CJ95, CM00b, DK03, EZ11, EdDP09, F006b, GJ98, GKL13, GGL+98, GGLT00, GB06b, GV98, GM96, HHMS15, HM98, HT17, HRT03, HRT13, HC98, HSW08, Hun95, Hun96, HP14, Joe95, KL10, KR06, KKR16, LCA08, Lih15, Lem16, LY16, MV09, MLL13, MZ94, MN00, Moo00, NKLW94, NMAB11, Ong97, PV08, PWZ10, Pet99b, PP13, PM15, RR98, RG98, RWWK15, RDP08, Sch02, SWB16, Sha12, SWT00, Tsy99, Tu07, US01, W98, Wen10, W01, W15, W05, ZW03, CA93, ED95, HZXC16, SM03, SS93b].

**Three-Dimensional** [AILP07, AR12, AS11, BBSW94, CJ95, CM00b, EdDP09, GJ08, GK13, GGL+98, GB06b, GV98, HHMS15, HM98, HRT03, HRT13, HC98, HSW08, Hun95, Hun96, Joe95, KL10, KR06, KS15a, LCA08, Len16, LY16, MV09, MZ94, MN00, NKLW94, NMAB11, PP99b, PP13, PM15, RDP08, Sch02, SWB16, Tsy99, US01, W98, WX05, HZXC16, ED95].

**three-factorized** [SS93b].

**Three-Field** [BBK15, RWWK15].

**Three-Grid** [WO01].

**Three-Level** [Tu07].

**Three-Term** [RG98].

**Threshold** [ACD18, MOKS12].
Threshold-based [MOKS12].
Thresholding [dMGF17, TW13a].
Through-Casing [PDTVM08]. TIGER [Wal13]. Tikhonov
[CR04, CP15b, FM99, GN14, GG18, LTJ11, KHE07, O’L01, TY08]. Tile
[HLD12]. Tiling [GVP06, ZAD16]. Tilted [BG11]. Time
[AM17, And16, AA02, ATK12, AM05, BO17, BM03, BS05c, BB10, BBL99, BBH18, BF13, BS15a, BHNPR07, BCM11, BFS16, BZ15, BN13, BBC07, BBT11, BV16, CGGS15, CB98, CDG17, CZK15b, CCG14a, CEJ10, CFR05, CGAD95, CCM08, CGK13, CGG14, CHL06, CWZ07, CIZ18, CCH15, CS10b, CDGT01, CE17, DM13a, DD13, DJT08, DLM16, DG09, DKPS17, DEP11, DSI13, DMD12, DB07, DGvdZ18, EDGL12, EJKL03, FFK14, FMOS17, FTY15, FDE10, GF07a, GJSZ13, GN16, GDL14, GASS98, GR17, GvdV17, GC16a, Gob08, GKB16, GGS08, GLOR16, GMM15, GV09, GI15b, GC17b, GW04b, GM04, HS05a, HW14a, HJ18b, HR98a, HT16, HS13, Hor10, HY14, HLY13, Jah04, JV96, JSZ13, JZ00, KM97, KT05, KKGS10, KR11, KL12, KBG18, KS14, KK16, KL00b, LDS11, Li10].

Time
[LD16, LWZ17, LSC18, LLL08, LM14c, LH00, LX16b, LX16c, MO00, ML11, MZ94, MN18, MSV00, MNZ15, NT18, Nor07, NL16, ODN17, PWN16, PR01, PS10a, PKR13, Pat97, PGW17, PL12, PvdVg17, PP12b, PP12c, PMSB12, QZT11, QS03, RM15, RPK18, Rav05, RL10, RZ03, RMC12, RWO1, RMD08, RSS08, RWX07, SYZO15, SE11, SNB08, SB15, SW10b, TW05, Tid18, TPW09, TH17, XCS16, YTL11, YMB18, ZK14a, ZLLT13, ZK14c, ZLLT15, ZCW10, Zim14, BC09a, CHO12, CFM96, CCG14b, EKSW15, FMB13, GS98a, GOV06, HP14, HV95, Kye12, LK93, Lhe15, SV08a, WGT14, Yan14, Yu01, ZLTA15, MMT15].

Time
[ZK14a]. Time-Accurate [LD16, Zim14].

Time-Changed [ZK14c].
Time-Decoupled [KS14].
Time-Dependent [ATK12, BFS16, CB98, CCG14a, CIZ18, GLOR16, GC17b, HJ18b, LH00, ML11, PNW16, RPK18, RZ03, RSS08, RWX07, SE11, XCS16, ZCW10, NO07].

Time-Domain [CHL06, DSZ13, HLY13, JZ00, PGW17, RW01, YMB18].

Time-Fractional
[GR17, LWZ17, LX16c, ZLTL13, ZLTL15].

Time-Harmonic
[AA02, BB10, BHNPR07, CWZ07, EDGL12, HY14, PL12, RL10, LX16b].

Time-Integration [DEP11, GF07a].
Time-Marching [BZ15, KM97].

Time-Parallel [BLR99, KL00b].

Time-Space [YTL11]. Time-Splitting
[BJM03, BS05c, CCGGS15, CZK15b].

Time-Step [CFR05].

Time-Step-Size-Independent [BBC07].

Time-Stepping
[AM17, EKL03, GGS08, GMM15, KT05, KGGS10, KR11, ML18, QZT11].

Timely [BT97, Cas97, Den97b, SA97].

Timestepping
[BB06a, HS06b, JL03, JL05a]. Tissue
[PV11].

Tissue
[PV11]. Tissues
[DLM16].

Titanium
[GV06].

Toda [Nak98].

Toeplitz
[BW93, CN93, CT94, CC96, CCE98, Di 95, Di 97, EK10, FS96, H96a, HSCTP04, Jin95, KKT13, LPS10, LNO5, MV00, MB09, N93, Ng00, NSJ03, NP10, NP14, NNO6, PKNS14, PE00, PS01, Tre93, Tre97].

Toeplitz-circulant [CC96].

Toeplitz-plus-band [CN93].

Toeplitz-plus-Diagonal [NP10].

Tolerant
[AG17b, AG17a, HHS15].

Tomography
[BB15, CILZ15, CK07, HKK13, HHMS15, HTH16, HM18, IJ10, KL95, KL00b, OKdSG17, RBH06, SBK13, SKMF15, TH17,
WB08a, WPL+13, dSK11, vdDA12.
Tomosynthesis [BNFS13]. Tool [BA05, EKSS16, VR14]. Toolbox [Wal18].
Toolkit [LNA+11]. Tools [KMA+12].
Tooth [RK07]. Topographic [GH14].
Total [CGM99, CMM00, CT03, CC03, CLNZ16, DF03, FGH097, FNBO6, KY05, GY09, HS06d, LFB13, LN17, MF06, NYW10, VO96, WBFA09, ZW+13]. Total-variation [NWY10].
Tournament [GCD18]. Trace [Che16, GSO17, KNV+16, OX17, SMZ18, SLO13]. Traces [ZND18].
Tracking [BLGL11, CL07, Dk00, GT98, GBCT10, GGL+98, GST+99, GGLT00, GGZ02, GM13, HC95, Hwa07, LS95, NKM10, ZF14]. Trade [SE13]. Trade-Off [SE13]. Traffic [BCV13, GPZ17, HK03, HPS06]. Train [BEKM16, DKO12, GKK15, HRS12, Kor15, LWK+16, OT11, Ose11, VS17].
Train/Quantized [DKO12]. Training [Zimi13, SBC93]. Trajectories [Van95].
Trajectory [EKM94, EHW00, WG12].
Transcription [PR09]. Transfer [ACL09, BK98, BK99, BW01, EAS08, GP18, HRT10, HHE10, JLY08, KZ16, PKR+13, PNP13, RBH06, RM08a, Xu99, YCS16].
Transferring [GR04]. Transform [AdWR17, AMVR17, ACD+08a, ACD+08b, ASS16, BR02, FW07, GCR16, GCH17a, GHR12, GHR13, H14b, KV12a, KM12, LZ17a, LCA08, MW08b, OT11, PM03, SVG10b, WO09, W18, We99, Yin09, 11AD96, EB96, NP96, Sch96, CRMC12, EMT99, GMS18, LB11, Rei13, RAT18, ZK14c].
Transform-based [NP96]. Transformation [CP03b, DK11, HC98, KR06, Yun03, YK03]. Transformations [AD07, ACD+08a, ACD+08b, CD06, GGOY02, GL15, Joe95, MHS98, Goe97, Joe93]. Transformed [TT06, UEE12, We17]. Transforms [BBV13, BV98, Di97, FT03, IBM01, Nak98, NL99, Pek12, PP13, TW09, BS94, DR93b, Heg95]. Transient [BG07, BP13b, FHFR13, MST15, SBM07].
Transmission [BLS14, HHL15, JLY08, MRS04, MS12, PvdVg17, QX08, RL10, WH13, WX17, YBLH16]. Transonic [CGK+98, SS10a]. Transparent [Co12, RSSZ08]. Transport [AHT12, AH06, ACCP13, BH14a, BGL08, BSS09, BP13b, BMM+08, BLM03, BJ08, CL18b, CM+07, CLTX15, DMML05, DJP00, DKS+18, ES18b, FHL13, Fro12, GJ08, GC16b, GC17b, HMM17, HKF+13, HRT13, HJP03, HIP04, HJS18, JLP18, JP14, Kan03a, KR14, KGM+08, KGM+11, KMS15, KP12b, KT17, Lay06, Lee10a, Lee12, LR12, M+94, MCB18, OL98, PMR16, PBT+15, RSSM18, Ros06b, RCLO18, SG11, TWK18, VY09, WZET13, YS16, M+95, MMY96, PCDB96].
Transport-Reaction [HKF+13]. Transportation [BCC+15, PB+96, SM15]. Transpose [CCC17, Fre93]. transpose-free [Fre93]. Transposition [Gup17, Mat18].
Treating [SO09]. Treatment [BH00b, CDM+13, Sch09]. Treatments [CGZ99, DMM14b]. Tree [BG14, BH17, CWA14, WMSG09].
Tree-Based [BH17]. Tree-Code [WMSG09]. Treecode [DD12, KW11, MXB15]. Treecodes [GSS00]. Trees [KU18, OH10]. Trefftz
[EKS15]. Trial [Lin16]. Triangles
[Ber00a, D’A00, DK98, KPP+14].
Triangular [AKK18, BGLY05, Ber98b, Bol03, BK17, Cao07, FEM08, GGL09, HO15, HP94, Hig95, Hog13, KT15, Kla98b, Le 01, LNSZ06, MKRK13, SC02, WSK99, ZQ18, AS93, BK17]. Triangularly [vd97].
Triangulated [FJP+11]. Triangulation [CWL+14, DV98, HGPM14, VHGR10].
Triangulations [E¨U09, Joe95, JGZ06, Joe93].
Tridiagonal [DMPV08, DJLZ96, GWMG03, HKO99, KL11, LZ99b, MRV06, Oct99, RT99, AM05, Lan93, LNSZ06, MKRK13, SC02, WSK99, ZS03, ZQ18, AS93, BK17].
Trigger [BBC+16].
Trigonometric [AM18, HK17, KP07, Str00a].
Trilinear [VP10].
Trilinos [HKR16].
Triple [KW15].
Triplets [De 12b, JN10, WS15].
Trivariate [CD15a].
Trivial [DP08, DJLZ96, GWMG03, HKO99, KL11, LZ99b, MRV06, Oct99, RT99, AM05, Lan93, LNSZ06, MKRK13, SC02, WSK99, ZS03, ZQ18, AS93, BK17]. Trivially [vd97].
Troubled [Q505a, VR16].
Troubled-Cell [CD15a]. Truncated [AM18, CD15b, FGHO97, MBVO13, YM+18].
Truncation [BKS16a, HSS08, OC03, VVM12].
Trust [KHRvBW13, KHRvBW14, RS02, ZS18].
Trust-Region [KHRvBW13, KHRvBW14, RS02, ZS18].
Trust-Regions [RS02].
TT-Format [OD12].
Tube [AH12, Hum95, LJL09].
Tubes [TY00].
Tubular [NNRW09].
Tucker [Ett16, GOS12a, KP17, DH16].
Tumor [BGC+10, HDB08].
Tunable [ZZK15, ZMK17].
Turbulence [BRR04, PH13].
Turbulent [AK15, AABM13, AL07, EAS08, Har11, TW06, ZC02].
Turning [LJ03].
TV [GLN09, LRT11, SWU16]. TVL1 [YZY09].
Twist [BT03a, LFWP08].
Two [AK09, ABM11, AG17b, ABIGG16, AIL05, AHR12, AHT17, Atk94, BGL06a, BT06, BBKK97, BK99, BC10, Bar99, Bar12b, BCT05, BB15b, BH11, BM01b, Ber95b, Beu05, Bre00, BKS13, CHR99, CM98b, CDG03, CGG07, CP07, CGL01, tVÇAU10, CV12, CV15, CC02, CL97, CC09, CJ05a, CDB13, CST+13, DS00, DK00, DD00, DJM16, DKPS17, DF99, DHZZ18, EG01, EF05, EPV94, Fau03, FV06, FS01, FL97, Fer98, FCZE14, FK00b, FCC10, FN94, FL08, GJSZ13, GVP06, GV16, GGMKM07, GKK98, GSP95, Gro02, GC97, HK16,HHvR03, HS94, HR99c, HLZ13, JVG12, JW05, JLZ16b, JK08, JP01, KK13, KKP14, KCZ15, KSM018, KKS13, KL06, KY14, KS15b, KT08, Kra09, KW15, KP99b, KP17, KM05, LD12, LAG14, LL98a, Le 09, LP08, LC97, Lee13b, LR12].
Two [LM15, LD16, LMT18, LB15, Mac98, MAB007, MB17, MB13, MN00, MY18, MEF09, NH12, NS06, NCVO6, PV08, PNP13, QS14, RRR03, RRR05, RT01, RL18, RR98, RO12, SSW12, Sha12, SY10a, SY14, SM94, SSJB17, SO09, TC99, TT13, VC00, VBT99, VMG09, WS07, WXK04, WDE+99, WL11, WMC12, WB12, WG18, WLLZ18, WHL18, WWM03, WMSG09, WCHZ14, WGF08, XBC96, Xa94, Ym02, YTLI11, YY16, Yu01, ZF14, ZzSpH14, aKT18, Ca93, CSS93a, EOD93, EG93, Elt69, LV04, SRC93, SS93b].
Two-Body [Kra09, Sha12, CSS93a].
Two-by-Two [BGL06a].
Two-Dimensional [ABC+16, BT06, BBKK97, CHR99, tVÇAU10, CC09, CST+13, DD00, DF99, DHZZ18, FCC10, GVP06, HR99c, JK08, JP01, KL06, KP17, LL98a, Le 09, LP08, LB15, Mac98, MAB007, MB13, NS06, PNP13, RRR03, RO12, SM94, TC99, WXK04, WB12, WWM03, WCHZ14, XBC96, Ym02, Yu01, ZzSpH14, KT08, Eft96, SRC93].
Two-Electron [KK13].
Two-Fluid [EF05, LM15, MEF09].
Two-Grid [AG17b, CJ05a, FL97, Fer98, MY18, Xu94, Atk94, VBT99].
Two-Level [AK09, FV06, KP09b].
Two-Level [BC10, Bre00, CDG03, CGG07, CGL01, DS00, DKPS17, EPV94, Fau03, HKR16, HHvR03, KK13, KKP14, MB17, WHL18,
Two-Parameter [GGKM07]. Two-Phase [AHR12, AHT17, BCT05, BH11, CL97, CDB13, FL08, KSM18, KS15b, LD12, LR12, QS14, SY10a, SY14, SO09, WGF08, YYS16, LV94].

Two-Point [BM01b, LG97, VC00]. Two-Phase [AHR12, AHT17, BCT05, BH11, CL97, CDB13, FL08, KSM18, KS15b, LD12, LR12, QS14, SY10a, SY14, SO09, WGF08, YYS16, LV94].

Two-Regime [FCZE14]. Two-Scale [CV15, SSW12, SSJB17, VMG09, CV12].

Two-Sided [BB15b, LMT18]. Two-Sphere [WL11]. Two-Stage [LD16].

Two-Step [Bar99, HLZ13, KW15]. Two-Stream [GV16]. Two-Term [FN94].

Two-Way [KCZ15]. Types [GYZ11].

Uintah [BBH+16]. Ultimately [Rum09].


Ultrasonic [mor09]. Unbiased [CK17, GK13, RVA17]. Unbounded [BWZ10, CF05, DR13, DHZZ18, Kim05, MS17, TZ14, SY12]. Uncertain [LM14b, MSS12, PVC17, SBND11, SCS04, TLE12, ZTM+16]. Uncertainties [SG04].

Uncertainty [AM04, ASZ07, Bar12a, BPR04, BF16, BZ12, BGMW17, BJW18b, CHL06, CHX15, CAB04, CYVK15, FUNB18, FWA+11, GW04a, GS14, HJX15, KH14, KHRvBW13, KHRvBW14, Kou09, LNP+07, LX12, LQX14, LW15, LZ04, PDE+17, Rah13, SSDN12, SRW+18, TZ14, WB08].

Unconditionally [CYZ17, LWZ17, YY18]. Unconstrained [Toi96].

Underdetermined [AHDK14, JP08, MSM14, SX11]. UnderSampled [DG17a, CG10].

Underwater [TKW08]. Unfitted [ZVF18]. Unidirectional [OL98]. Unification [Tie18]. Unified [GKC13, HK02, KLRU17, KHW+14, LKvBW10, MS18a, WPGR13].

Uniform [CC06, GMSB16, Lu95, Ong94, Red99, Sch10, TV93]. Uniform-Consistency [Lu95]. Uniformity [LSW02]. Uniformization [SBM07, WZ15]. Uniformly [BS18a, BR09, TB99a, WYT18, ZCL+11].

uniprocessor [NP93b]. Uniqueness [FLM+05]. Unit [GMSB16]. Units [BBFJ16, KMSM14, KHW+14, Nov15, WHCX13]. Unity [AD18a, GS00, GS02a, GS02b, KO17, LSH17, Sch09, Sch13, YSZ14].

Univariate [Win06]. Unknown [HM18]. Unknowns [KL10]. Unmatched [EH18].


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Upwind-Euler [CPR11]. Upwinding [CKV99]. Urine [LL02]. Use [AABM13, Cai95, BFSZ08, Che13, CWG10, DNP+04].
DGK\textsuperscript{+16}, JFG15, JvGVS13, Man99, OT09, RZ03, SO15, SSVW17, ZLLT13, HO93].

*Used* [NNH99, SMZ18]. *Using* [AGI10, ABM\textsuperscript{+13}, AKW17, AP14, AMP00, ALZ14, BBSV10, Bar05, BSS09, BBC\textsuperscript{+16}, BN15, BBR04, BB15c, BV00, BBT11, BHP94, BBR08, BKS98, BW09, BDW11, BJW18b, CIW13, CWC08, CCC17, CD15a, CT03, DKL14a, CH16, Cho05, CH08b, CV98, CRM18, CPD17, CFM98, Del14, DARG13, DGL17a, DLTZ06, DAC17, DLT95, DTM\textsuperscript{+16}, DV98, DHE13, DGK98, DKZ09, DCP11, DB07, DF03, EHL06, EKS16, ETLW17, FMGP13, FMGP14a, FMGP14b, Fai03, FTY15, GH13, GRPG01, GLR\textsuperscript{+16}, GL15, GS98b, GCB04, GNPT18, GM11, GNS17, H14b, HS99a, HM98, HW03, HW99, Hol05, HRS10, HC18, Hol99, HK02, Hum96, IT14, JP16, JFG13, Joe95, JF16, JP01, JZ00, KO05, KU18, KR06, KL13a, KL08b, Kup09, Kup08, Lan98, LMK16, LLP98, Lay06, LV10, LFM13, Lec14]. *Using* [LM17, Lie93, LZ13b, LS09, LCL18, LZ04, MM13, MCT\textsuperscript{+05}, MS06a, MCB18, MR18, NKT08, NMW11, NMFP16, ON17, OST11, OKLS15, PHD09, PVC17, PP05, PRM09, PCD17, PB1B\textsuperscript{+15}, QS14, QS05a, QS05b, RSNR17, Rav02, RKL07, Ros05b, RHSL11, Sch02, SSW18, Sco17, SZ00, SMR16, SAY03, SRI\textsuperscript{+18}, Str99, SSH06, TWK18, TBKF14, Til15, VBA18, Van00, VSS14, VS17, VR16, WB08a, WS95, WE13, WZ14, WB00, WKM\textsuperscript{+07}, WkZ15, WT01, XKWO08, XAW17, YC13Z, YG15, YY18, YB09, dSGK\textsuperscript{+15}, AMB\textsuperscript{+94}, BS05e, Car93, CH15, C119, DS96, DMD\textsuperscript{+12}, FG95, GTK\textsuperscript{+17}, GKM\textsuperscript{+17}, dMGF17, HMAS17, HBS00, HHMDC18, Joe93, LMSSS97, MS93a, MHS98, Nat95, Nat97, Pet93, RNR16, SBK18, She94, She95, WvdZSvB18, YSX17, YWL17, dBMP11]. *Uzawa* [HOW17, LRGO17].

*valuated* [YGCP96]. *Validation* [MS06b, RW97, WOo94]. *Valuation* [CF07, HY08, Mar03, Toi08]. *Value* [ABLS05, AA00, AFF\textsuperscript{+15}, AP97, AS94, BK06, BM01b, Bet08, BF95, BIYS00, BKS98, CGAD95, Cas05, CD01, CV94, CGHT914, Der08, Dm97, DK03, EM96, EM99, EN08, FS02, For06, GG13, Gu15, HJ18b, HM14, IM97, IM99, LV07, LG97, LWZ13, LK98, MS07d, Nit99, OS98, PL03, Pat97, PRSS11, SBS98, SW16, Ste99, VC00, VV05, VVM12, VK13, YR98, BD93, BZ93, CS12, Rán93].

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Various
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[NV08].

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[DO15].

Vector-supercomputer
[Kor93].

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[BzCS11, BS15b, ZBFN17, GS14].

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[PR96].

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[CKLP11, Cho05, DGK98, IK10, KKT13, SM15, YC99].

Vehicle
[EHW00].

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[MS98].

Velocity
[BST08, Cho09, GP99, HPS06, Min02, OR02, VN03].

Velocity-Pressure-Stress
[GP99].

Velocity-Stress
[BLGL11, KHU96].

Verlet
[HL97, MIS03].

Version
[AGH13, AP99, CDG17, CG99, GC97, HK95, LS05a, MMM+94, QOSB98, SYEG00, ZK96, Cas97].

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[Til15].

Version
[A09, DZ08].

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[CSB+18, HNR17, Sma04].

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[KS15a].

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[DCS010].

VFRC
[BM80].

BGMR01, C0Z15a, DLY17, ZCZ04, AB02, ABL05, AK17, AK04, AVW13, BS05a, BMTZ13, BM18, Bla03, Car10, CK1, CLNZ16, CS10a, CAS11, CLST03, CS98, C0K15, DP17, DFS17, DH01, DDF00, DGP10, FMR13, FNTB18, FM16, GSS12, GM14a, GLT09, GD07, GNZC17, HHSW11, HJS18, IK10, JKLZ18, KKS08, KSD10, KG18, Kue12, KOSB16, LKvBW10, Mar16, NX12, Nas09, NWY10, OKdSG17, OT11, PW15, PH16, RO15a, SDNL10, SM15, XC13, Yin09, Z04, ZF14, ZBK18, ZVF18].

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[Cab94, PRS12].

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[GJ07].

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[LB07, LB08, SYZO15].

ViennaCL
[RTR+16].

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[NKT15].

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[YBM+18].

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[BB08b, CL03, Del14].

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[SY10a].

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Vispark
[CHJ16].

Visual
[CHJ16].

Visualizing
[YWL17].

Vitro
[DMM*16].

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[CLW13, CV07, EL18, GH18, K15, MC95, MCV14, TKCC13, WM12, XOMN10].

Vlasov-Based
[CV07].

Virtual
[MS07c].

Virtual-GRAPE
[NTY08].

Volatility
[IT09b].

Voltage
[BFSN08].

Volterra
[AH18, BHK14, SE11, XZB11, ZV05].

Volume
[AGL10, AH06, AW11, AS05, AD06, BSS09, BM98, BCF12, BS06a, BB12, CH09a, CL08, CZ10, CHKK13, CK15, Che05, CCC18, CH11, DRFP07, DFN12, EKSS16, ES17, EIL01, FM11, FC02, FEM08, GW15, GSS+09, HA01, KP12b, KW10b, Kye12, LD12, LOL13, LO14, Len16, LL08, LSV13, LMMW04, MM03, MB13, MSS12, MSV00, OU10, PHA18, PL06, Pet01, QS08b, Rah00, SYY09, SY18, SC02, T05, U10, ZJC12, ZLS12, ZQ18].

Volume-of-Fluid
[LL08].

Volumes
[Sa15].

Volumetric
[CDM+13].
BGL06b, DGJ03, DW05b, JGZ06, LCN14. Vortex [BN98a, GHK14, HM98, KO17, NIt99, OSCE00, PRM09, Pup99, RRR05, Ros96, Ros97, Ros06a, WMSG09, HLS93]. Vortex-Grid [Pup99]. Vortices [MDC98]. Vorticity [Ber98a, FM11, MR01, RLM+00, LSM93]. Vorticity-Based [RLM+00]. Vorticity-Preserving [MR01]. Vortices [MDC98]. Waals [FKQS17]. Walk [SM94, ZS04]. Walks [YCZ13]. Warped [Pul08]. Warping [MTM08]. Wasserstein [CSB+18]. Water [AK09, ABB04, BBSV10, BM08, BP12, BL05, BT16, CLP08, FS01, FM11, GN07, HK02, KP09b, Lay03, Lay06, Le 05, LRP07, LP08, LDS11, Mar09, MSS12, RLC08, RLM+f00, TC12, YCC10, Pet93]. Wave [AM17, AP12, BS95, BLMR02, Ban10, BDZ13, BG98, BK18, CW17, CHW17b, Chr09, CV16, CJ95, DLM16, DG09, DR13, DHZZ18, DKL14b, EKLS+f00, GH15b, GM17, GMvdV18, GLQ16, GM13, GMM15, GW04b, GM04, HHT03, HY14, HZ16, HL17, HLY13, HSSZ09, HMCK04, JLL16b, KMA+f12, KPL13, Köso7f, KP05, KP06b, LS95, LOL13, LO14, Lem16, LLX15, LB06, LX16b, MT99, Min02, MR01, MV06, NMS06, ODN17, PKD13, Pel18, Pic10, Str99, Tra95, VMG09, WGT14, War13, WG00, XKWY08, ZLJ96, Zin00, RS16]. Wave-driven [Köso7f]. Wave-Front [GM13]. Wave-Like [WG00]. Wave-Ray [LB06]. Waveform [ADM10, GS98a, GR05a, GR17, HR07, JV96, JP95, LW97, Mar09, MBVO13, PDC99, RWA95, SB98, SV00, TZ95, TH17, WH13, WX17, YBM+f18, ZKV99, Lei93]. Wavefront [AKK18, CJN13, HS01b, MHL+f15]. Waveguide [JMR17]. Waveguides [Fli13]. Wavelet [ABCR93, And16, BBC+f01, CC02, CCSS03, CM99, DF03, EBR00, EOZ94, EK14, FT03, GP16, GHK14, HS05b, HC05, Jah10, Jam98, KNN12, KV05, LS99, LFJS14, MK08, NMS06, OGO16, OT11, RHSK11, Win10, XKZ95]. Wavelet-Based [EK14]. Wavelet-In-Time [And16]. Wavelet-like [ABCR93]. Wavelet-Optimized [Jam98]. Waves [Bit99, BB15c, BH93, Hol99, Li99, OGO13, RZ03, SV03, VW98, Jam96]. Wavenumber [DMBB10]. Wavenumber-Based [DMBB10]. Wavepackets [FGL09]. Waves [DMD+f12, EO16b, Go508, GN07, HLW00, HPS08, Hwa07, LRP07, LP08, LDS11, LT12, Men94, MZ94, Sei95, Wn99, LP06, Pet93, WAS94]. wavespeeds [BCLC97]. Way [KCZ15]. Weak [ACVZ12, AVZ13, Giv12, HMCK04, KL15, KK13, KCB17, Liu96, LT18, MWY17, RH06, SPO4, Sch18, TVA02, Vil14]. Weakly [BJNN02, CP17, EF05, LSZ17, NBA+f14, Vil09, Ym03, YK03]. Weather [MW08b]. Web [DMM+f08]. Wedderburn [GOS12a]. Wedgelet [FDW07]. Weeks [Wei99]. Weight [CHW17a, CHW17b, LD04]. Weight-Adjusted [CHW17a, CHW17b]. Weighted [ADH99, BC09a, CFS05, CM98a, CM98b, CLTX15, DBSR17, EMN17, GB12, GNYZ18, HKYY16, HS06a, JP00, JSZ13, KPP+f16, Kuo96, Kup00, MNS10, MW03, May05, NP14, PW12, Q05a, QS08b, Rad16, RVA17, RSG17, SY18, WS07, WS06, ZLS12, ZQ18, FF94]. Weights [BMF12, Bog14, HT13a, HV01, Swa02]. Well [ABB+f04, CCM08, CK15, DRFNP07, Du16, Gos12b, LXL11, TTK16, VHGR10, WSZ14, D595a, FCR93]. Well-Balanced [ABB+f04, CCM08, CK15, DRFNP07, LXL11, TTK16, Gos12b]. Well-Centered [VHGR10]. Well-Conditioned [Du16, WSZ14]. well-posed [FCR93]. WEM [BK06]. Wendroff [JSZ13, Kol99, LD16, MR01, QS03]. Wendroff-Type [MR01, QS03]. WENO [AGI10, ALRT17, CLL13, CFJT18,
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Yang:2011:NNM

Yu:2001:LST

Yun:2003:EST

Yavneh:1998:FMS

You:2017:EMV


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Yao:2008:NMC


Yang:2011:ADA


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Zhang:2016:BTA


Zayernouri:2015:TFS


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Zouros:2012:TES


Zahm:2017:PBM


Zbinden:2011:PRK


Zhang:2018:SDD


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Zhang:2011:UAD

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Zhang:2010:MCT

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**Zhang:2016:OBS**


**Zeng:2016:GAE**


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**Zhang:2014:FOI**


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Zhao:2016:SPF


Zhang:2015:KSM


Zhang:2018:FBA

