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(ϑ) [AK20a]. 1 [KLMZ21]. 2 [DFFS22, HM22]. 3 [FGOS20, FLH23, Han23, HJHUT20, KLMZ21]. ^{k} [CCMP24]. A [LWC23]. $H(\mathbf{curl})$ [Hu23]. H^1 [FH24]. $H(\mathrm{div})$ [FH24]. $o\left(\frac{1}{k}\right)$ [BN23]. C^1 [CJZ22]. δ [HX20]. ℓ_2 [GPHHA20]. ℓ_∞ [GPHHA20]. Γ [GKMR22]. H [WX20]. $H(\mathrm{curl})$ [CFV23]. $H(\mathrm{curl})$ [WYZ20b]. $H(\mathrm{DIV})$ [Mu20]. H^1 [QW23]. H^2 [AP20]. H^m [CHW22]. $H \in (0, 1)$ [ND22]. hp [AH21, AP21a, AP21b, DMS21, FMMS23]. L^2 [AXSZ22, CSWY23, DST21]. L^∞ [CMZ21]. L^p [DST21]. L_1 [Mus20, NT21a]. p [BDS23, BHL21, CDCVV21, CFV23, KR23a, KR23b, KR23c, MPV20, WL20]. ϕ [DL20b]. Q [GWY22]. r [ARSY20]. θ [WZZ22].

-Conforming [CHW22]. **-Convergence** [GKMR22]. **-Curl** [WL20]. **-Dimensional** [HJHUT20]. **-Discontinuous** [DMS21]. **-Elliptic** [Hu23]. **-FEM** [FMMS23, AP21a, AP21b, DL20b]. **-Field** [FGOS20]. **-Laplace-Type** [BHL21]. **-Laplacian** [BDS23, CDCVV21]. **-Navier** [KR23a, KR23b, KR23c]. **-Norm** [QW23]. **-Projection** [DST21]. **-Robust** [CFV23, MPV20]. **-Singularities** [HX20]. **-stability** [AK20a, DST21]. **-Stable** [AP20, LWC23]. **-Tensor** [GWY22].

1-Wasserstein [XLZZ24].

2 [ARSY20].

Absorption [GSZ20]. **Acceleration** [BC22, BM22, EPRX20]. **Accuracy** [ARSY20, HKYY21, LAZ22, MR21, WZ23, YHLR22]. **Accurate** [CS22a, EW21, EG22, FR21, LWZ20]. **Acoustic** [ZWC20]. **Active** [LO23]. **Adaptation** [CAGD22]. **Adaptive** [AB24, BLY21, BIP22, CN21, CM21, CLS23, EEST22, HAST22, HL23, MRV23, QZ20, WYZ20b, dVCN$^+$23]. **Additive** [BJ22, CHS21, KLS20, Par20, YDS21]. **adjoint** [CM21, LWZ20]. **Advancement** [AH21]. **Advection** [HZ20, MZZ22, SWZ20]. **Affine** [BG20, EEST22]. **Agglomeration** [ABBV23]. **Agglomeration-Based** [ABBV23]. **Algebraic** [BKSS24, MPV20, Xia21]. **Algorithm** [ARSY20, BdBEO21, BHYZ23, BC20, BN23, Col23, GW20, GANT20, QWL22, SSZ23, TWZZ23, ZRZ23]. **Algorithmic** [HHM$^+$20]. **Algorithms** [BW20, CL21, CCW21, CDD$^+$20, DH21, HPBL21, MR21, Ni21, SZ21a]. **Allen** [CGP20, JLQ22, lLTZ20]. **Alternative** [WR21]. **American** [DLZ20]. **AMF** [GPHHA20]. **AMF-W-Methods** [GPHHA20]. **Amplitude** [IG21]. **Amplitude-based** [IG21]. **analogue** [AK20a]. **Analyses** [LET20]. **Analysis** [AGS21, AB20, ADS23, ABCS24, BGNS20, BCJQ24, BK21, BSWW22, BPS22, BH21, CJZ22, CH22a, CL21, CFV23, DN21, DEL21, DS20, DGL20, EH22, FGOS20, FA22, FGP21, Gal21, GHM21, GS23, GKS23, GMSZ22, GKMR22, GWY22, Guo21, GK24, Hal21, HY22, HN21, HS21, HS23, HPBL21, JLZ24, JZ21a, JK22, KR23a, KS20, KM20a, Kop20, KLMZ21, LS20a, LWS22, LZ23, LWWW22, LRK22, LZCZ22, LWXZ20, MSD22, MST22, MST20, MS20, Mus20, ND22, NR21, OS24, Otá22, Pap22, RS21a, Rub20, RN20, SGT20, SC23a, Sun21, WLPU21, Wan23, WYZ24, WYZ20a, WB21, WLF23, XZ22, YZZ20, ZZZ22b, ZN23, ZDMZ20, ZQ23, ZL21, ZW23, dVCN$^+$23, vWR23]. **Anderson** [BC22, EPRX20]. **Anisotropic** [AK20b, BJL23, CAGD22, Hal22]. **Anisotropically** [ST22]. **Any** [AK20b, WHL21]. **AP** [PCQL21]. **Application** [ACM24, BCT21, BGG23, CFV23, CMZ21, DH21, HLM22, JLY21, KN23, LZ23, PR22]. **Applications** [CS23, GP22, JLM22, Kar21, LJL$^+$21]. **Applied** [BJ22, CMZ21, GANT20]. **Applying** [VL23]. **Approach** [AHW23, BHL24, CS22b, GKN21, Mai21]. **Approaches** [GFSZ20]. **Approximability** [RW24]. **Approximants** [NT21a]. **Approximate** [Lab20, WLPU21, Zha23b]. **Approximated** [DXY22]. **Approximating** [CGR20, DMM24, FL21, Ni21]. **Approximation** [AN21, AJH23, BPW23, BO20, BHL21, BG20, BHL24, CC23, CS23, CRR24, DLZ20, DH21, DSY21, DDO20, EHK24, EG23, FLO20, Gaw20, GSW21, GPR20, HKYY21, KR23a, KR23b, KR23c, KLMZ21, LS20b, MSS20, Mus20, NT21b, OS24, PS20, PS21, PSS22, RSS22, Spr24, WYZ20b, Xia21, ZSH20, ZZZ22b, ZW20a, ZW20b, ZDMZ20, dDFH23]. **Approximations** [AP21a, AP21b, ADM17, ADM21, BR20b, BLV20, BDG23, CZZ22, DGL20, EW21, GS23, GMSZ22, GKMR22, GHM20, HL23, HK20, JZ21a, MSD22, MNO21, Wan23]. **Arbitrary** [CHW22, CH22b, Han23, HX20, Kam21, LMN23]. **Area** [JSZ23, KYB23]. **Area-Preserving** [JSZ23]. **Arising** [dDFH23]. **Arnoldi** [CCW21]. **Artificial** [DIL$^+$20, JLY21, SWZ20]. **Assimilation** [GANT20]. **Assumptions** [Kam21]. **Asymptotic** [DHS24, EHK24, GV20, GGHS22, GPR20, HD24]. **Asymptotic-Preserving** [EHK24, GV20]. **Asymptotically** [CHJS21, LTTF21]. **Asymptotically-Preserving** [CHJS21]. **Attractors** [DK23, LYC23]. **Average**

[CDW24, YDS21]. **Averaged** [WX20]. **Axisymmetric** [DN21].

B [HHM+20]. **B-Splines** [HHM+20]. **Backpropagation** [ABCS24]. **Backward** [HHL24, KV22, WZZ22]. **Balance** [LWWW22]. **Banach** [MvdZ20]. **Barrier** [KM20a]. **Based** [AHW23, ABBV23, BGNS20, BHLZ24, BdBEO21, BHYZ23, BFS23, CFV23, CCL23, CLR23, CCMP24, CDD+20, DMS21, GW20, LL22a, MSD22, MRV23, PS21, Rub20, AF21, IG21, KS20, PCQL21]. **Basis** [HO24]. **Batch** [JLL21]. **Bates** [BCT21]. **Bathymetry** [NPT22]. **Bayesian** [ACM24]. **BDF** [AK20a, ACYZ21, LWZ20, lLTZ20, LL22b, SC23b]. **BDF2** [LlL22]. **BDF3** [LlL22]. **Beam** [QS21]. **Beavers** [SSZ23]. **Behavior** [CCHHK20, MPV20]. **Bellman** [CFF20, FL21]. **Bernoulli** [DSS24]. **Besov** [WSH20]. **Best** [DH21, NT21a]. **Between** [SZ21a, GB20]. **Beyond** [GK24]. **Bi** [CP23]. **Bi-Laplacian** [CP23]. **Bianchi** [HLM22]. **Biharmonic** [CKP23, DMS21, DE22, MSS20, YZ20]. **Biomaterials** [GKMR22]. **Biot** [GVMRBV23]. **Biperiodic** [Zha23a]. **Bitemperature** [ADBP22]. **Block** [LWC23, LWX24]. **Blow** [CRR24, KM20b]. **Blow-Up** [KM20b]. **Blow-Ups** [CRR24]. **Boltzmann** [DHS24, DEL21, HQY21, PR22]. **Borrvall** [Pap22]. **Bound** [CDW24, MQ23, SX20b, CS22b]. **Bound-Preserving** [CDW24]. **Boundary** [AHW23, BFS20, CMZ21, DFFS22, GZ21, GMSZ22, HJHUT20, HS21, JK22, KN20, Met21, NPT22, NH20, SBL22, SWZ20, WM23, YHLR22]. **Bounded** [HW22, LM22b, QS21, ZW22]. **Bounds** [BCY21, BCF22, BW24, CZZ20, CP23, FV23, GO23, HM22, Kam21, KRS+21, KM20b, WR21]. **Branching** [SX20a]. **Bregman** [BCJQ24]. **Brezzi** [AK20b]. **Brinkman** [Mu20]. **Brownian** [FLO20]. **Bubble** [BV22]. **Bubble-Enriched** [BV22].

C [ALOS23]. **Cahn** [CSWY23, CHSZ23, CGP20, CHS21, JLQ22, lLTZ20, LMR23, Met21, QW20]. **Can** [CZZ20]. **Cardinality** [BC20]. **Carleman** [BdBEO21]. **Carleman-Based** [BdBEO21]. **Carlo** [CG24, FA22, GKS23, GSM24, HAST22, HZW23, KVM22, LWY23, SSX23, TS23]. **Case** [CL21, GHM20]. **Cases** [FH24]. **Cauchy** [BGJ22]. **Cell** [CDW24, GKMR22]. **Cell-Induced** [GKMR22]. **Central** [WJS23]. **Certain** [RW24]. **Chains** [BCT21]. **Changing** [CLR23]. **Chaotic** [LWXZ22]. **Characteristic** [MZZ22]. **Characteristics** [Sun21]. **Characteristics-Mixed** [Sun21]. **Charged** [HLS23, WZ21]. **Charged-Particle** [HLS23, WZ21]. **Chebyshev** [CHS20, Huy22, SST+20, Wan23]. **Chemotaxis** [FHW21, GGC23]. **Chemotaxis-Consumption** [GGC23]. **Chemotaxis-Stokes** [FHW21]. **Choice** [KR20]. **CIP** [ZW23]. **CIP-FEM** [ZW23]. **Class** [ACM24, BCJQ24, CT21, HS21, HD24, Lab20, LWZ20, NPT22, SX20b]. **Classes** [AN21, RW24]. **Classical** [CS22a, FV23]. **Close** [ARSY20]. **Closed** [BL23, BJL23, Li21]. **Clustered** [LWX24]. **Coefficient** [BJ22, JZ21a]. **Coefficients** [CLR23, Hu21, Hu23, Mai21, OP24, Spr24]. **Coercive** [WL23]. **Collocation** [AB20, CL20, CCL23, EEST22, FLM21, LL22a, LTTF21]. **Commutativity** [FdRS24]. **Compact** [AKM23, CGR20, TS23]. **Compact-Equivalent** [AKM23]. **Comparison** [GB20]. **Compatibility** [HD24]. **Compatible** [BD23, LTTF21, Geo21]. **Complex** [AKM23, ACW21, DH21, Hal21, Hal22]. **Complexes** [HLM22, HZZ22]. **Complexity**

[JK22]. **Complicated** [Zha23b]. **Compressibility** [JLY21]. **Compressible** [LS22]. **Compression** [DIL+20, FP20]. **Computation** [ACW21, DH20, Geo21, HHM+20, Huy22, LWXZ22, Sto20]. **Computational** [GO23, HP20, LJL+21]. **Computations** [Col23]. **Compute** [CZZ20]. **Computing** [AB20, Col22, JLZ24, LWXZ20]. **concept** [AK20a]. **Condition** [FdRS24]. **Conditions** [BKSS24, BFS20, DNT22, GSZ20, HS21, JK22, KN20, Met21, NPT22, NH20, Otá22, SBL22, SSZ23, SWZ20]. **Conductor** [RS21a]. **Conductor-like** [RS21a]. **Conforming** [BDL20, CJZ22, CHW22, CH22b, FK22, HLM22, KK20]. **Congested** [PS22]. **Connected** [KOO23]. **Connections** [SZ21a]. **Conservation** [AXSZ22, BR20a, CDW24, DMM24, FR21, FMR22, LZM+20, LLS21, PS20]. **Conservations** [WZ23]. **Conservative** [CDP22, DWW22]. **Conserving** [AP21a, AP21b, AP22, GLS20, MCL20, FLM21]. **Consistency** [MT20, YZZ20]. **Consistent** [HS23]. **Constant** [Gal21, Sto20]. **Constituted** [FGOS20]. **Constrained** [LWY23, GZ21, HW21]. **Constraints** [BPW23, YZDCNC23]. **Constructing** [CS22b]. **Consumption** [GGC23]. **Continuation** [BDE21, BDE23]. **Continuous** [AHV22, BSWW22, LET20, XLZZ24]. **Continuum** [RS21a]. **Contraction** [LPW24, dVCN+23]. **Contractivity** [SZ20]. **Control** [BHYZ23, CC23, CL21, CGN24, CMZ21, CLR23, Col22, DH21, GO21, GMSZ22, HPBL21, LSTY21, LS24, MK20, MU22, MST22, Otá22]. **Control-Based** [CLR23]. **Convected** [MNO21]. **Convection** [CCHHK20, CJZ22, MST22, WX20, WLF23, ZSH20, ZRZ23]. **Convergence** [AP21b, ALW21, AB20, ABCS24, AKM23, BR20a, BL23, BLM21, BCJQ24, BR20b, BK21, BJ22, BCF23, BSWW22, BN23, BO20, BH21, BCT21, BDG23, CL21, CAGD22, CN21, CP23, CZZ22, CLLZ24, CAS23, CHS21, DXY22, EEST22, EH22, EPRX20, FGK23, FKM22, FMMS23, FDvW21, FMR22, GPHHA20, GKMR22, GB20, GWY22, GLW22, GGC23, HP20, Hu21, HQY21, Hu23, HPBL21, JLL21, KR23a, KR23b, KR23c, KR20, LPW24, Li20, Li21, LS22, LYC23, LWWW22, LMR23, LZCZ22, LWXZ20, MS23, NSD22, ND22, Otá22, QW23, SGT20, SC23a, WYZ20a, WSH20, WR21, Xia21, XLZZ24, XZ22, YZZ20, YC21, ZWC20, Zha22, ZN23, Zha23a]. **Convergent** [BNY23, CG20, JZ21b, LWX20, LWXZ22, Met21, NRY22]. **Converging** [EPRX20]. **Convex** [BLV20, BC20, CT21, KR20, Par20, SZ20]. **Convexity** [JSZ23]. **Convexity-Preserving** [JSZ23]. **Convolution** [LM22a, SC23b]. **Cook** [QW20]. **Correct** [EG23]. **Correction** [Lab20]. **Corresponding** [MPV20]. **Corrigendum** [ADM21]. **Cost** [AB24]. **Countably** [PSS22]. **Coupled** [CS22c, KLMZ21, vWR23]. **Coupling** [BJMO22, DFFS22, GHM21, KV22, ZCPZ21]. **Covariances** [BGNS20]. **Crank** [AGS21, JLY21, SR20]. **Cross** [BPS22, CG20, DNT22]. **Cross-Diffusion** [BPS22, CG20]. **Cross-Points** [DNT22]. **Crowd** [LMSS20]. **Crystal** [BNY23]. **Crystalline** [BO20]. **Crystals** [GWY22, NRY22]. **Cube** [MSS20]. **Cubic** [CG24]. **Curl** [CFV23, EG23, WL20, WX20]. **Curse** [RW24]. **Curvature** [BL23, DN21, DN23, EG22, Gaw20, Li21]. **Curve** [JSZ23, Li20, YC21]. **Curved** [AW20, AJH23, DFFS22, GHM20, NO21, WM23]. **Curves** [BJL23, SJ21]. **Cut** [BHL24].

D

[DFFS22, FLH23, HM22, Han23, KLMZ21].

Darcy [FA20, JLY21, SSZ23, ZCPZ21]. **Data** [CDD+20, Col23, DH20, DSY21, DGL20, FHK22, GANT20, Gla20, HL23, LM22a, LLMR23, LWZ23, bLWZ21, LCS24, LS20b]. **Data-Based** [CDD+20]. **Data-Driven** [Col23]. **Davidson** [LWX24]. **Decay** [WS23]. **decaying** [ALW21]. **Decomposition** [AFB+21, CDW24, DNT22, GSZ20, Hu21, KRS+21, LS20b, MS21, NR21, RS21a, SSZ23, Zha23b]. **Deconvolution** [Lab20]. **Decoupled** [FHW21, LMR23, ZRZ23]. **Decoupling** [LUZ20]. **Decreasing** [JSZ23]. **Deep** [AN21, DGYZ22, GHLY23, HPBL21, MS23, MR21]. **Defect** [BO20]. **Defected** [YHLR22]. **Defined** [DL20b, SJ21]. **Deformations** [RSS22]. **Degenerate** [CT21, DE20]. **Degree** [GGPS21]. **Degrees** [CKP23]. **Densities** [GKS23]. **Density** [GHLY23, KN23]. **Dependence** [HHL24]. **Dependent** [GVMRBV23, HK20, KS20]. **Derivative** [BBH22, DGG20, EW21, GAJN23, KM20a, MNO21]. **Descent** [JLM22]. **Design** [MSD22]. **Detailed** [LWWW22]. **Deterministic** [GFSZ20]. **Deviations** [CHJS21]. **DG** [ZCPZ21]. **Diagonalization** [GW20]. **Diagonalization-Based** [GW20]. **Difference** [AF21, AGS21, AY20, DN21, lDzSW22, FL21, FLH23, GvR24, KRS+21, MNO21, MSS20, RN20, SBL22, WK23, ZW22, Zou23]. **Difference-Discontinuous** [WK23]. **Differential** [ACM24, AB20, DK23, EEST22, GNS20, GHM20, GLS23, HHL24, HT20, HK20, LL22a, LZ23, lLLL23, MS23, OS24, OSV23, SW23, SZ21a, WZZ22]. **Diffraction** [HN21]. **Diffusion** [AHW23, BZ21, BJL23, BJ22, BPS22, BCT21, CK20, CG20, CCHHK20, CJZ22, CCL23, DEL21, DL20a, EEST22, GVMRBV23, HZ20, HLTW21, JZ21a, KVM22, KV22, KR23d, LMSS20, LTTF21, LWWW22, MZZ22, MST22, Mus20, NSD22, ND22, SWZ20, WR21, WX20, YZDCNC23, ZZZ22b, ZW20a, ZW20b, ZDMZ20]. **Diffusions** [GHLY23]. **Diffusivity** [LWXZ20]. **Dimension** [CHW22, CH22b, GK24, HO20, HO24]. **Dimensional** [ADBP22, BPP20, CCMP24, GV20, GK24, HHL24, HJHUT20, HK20, JLM22, KLMZ21, LWX20, LCS24, PS21, PSS22, QS21, RW24, ZWC20, Zha23a]. **Dimensionality** [RW24]. **Dimensions** [BLY21, HZZ22, KN23, Led21, SSX23, WHL21, IG21]. **Diminishing** [CG20]. **Dirac** [BCY21]. **Direct** [CP23]. **Dirichlet** [CMZ21, GMSZ22, Zha23b]. **Dirichlet-to** [Zha23b]. **Discontinuities** [ARSY20]. **Discontinuous** [AXSZ22, AM22, BR20a, BCF23, CDG23, CFV24, Che21, CDP22, CHSZ23, CS22c, DHS24, DMS21, DS20, DWW22, EG23, FHN23, GM22, HX20, KR23a, KR23b, KR23c, KK20, KR23d, LET20, LR20, LZM+20, LLS21, Pap22, Spr24, WK23, WJS23, XSZ20]. **Discontinuous-Galerkin-in-Time** [CS22c]. **Discovery** [DGYZ22, KD21]. **Discrepancy** [MR21]. **Discrete** [AM22, ADBP22, BR20b, CHKL22, CRR24, DN23, GHM21, GZ21, GV20, GWY22, GGC23, Guo21, Kar21, KN20, LYC23, lLLL23, LZCZ22, NPT22, QW20, XLZZ24, YC21, ZZZ22b]. **Discrete-Time** [LYC23]. **Discretization** [ABB+21, ACM24, BGJ22, BPS22, BGG23, Che21, CHS21, DL20a, GS21, HW22, LSTY21, LMSS20, MvdZ20, SR20, YZZ20, ZZZ22a]. **Discretizations** [CFV22, CFV24, DRV21, DMS21, GGPS21, MST20, RN20]. **Discretized** [BDE23, FM21, LPW24]. **Disparate** [JLL21]. **Dispersion** [ZW23]. **Dissipative** [GW20, SX20b]. **Distance** [XLZZ24]. **Distances** [CWW24]. **Distributed** [HMO22, bLWZ21, LS24]. **Distribution** [GKS23, HHL24]. **Div** [EG23, CH22b, WX20]. **div-** [CH22b]. **divdiv** [CH22b, HLM22].

divdiv-Conforming [CH22b]. **Divergence** [BDL20, BHL24, FK22, Gal21, Han23, KK20, LS22, NO21, VL23, WHL21]. **Divergence-Conforming** [BDL20, FK22, KK20]. **Divergence-Free** [BHL24, Han23, LS22, WHL21, NO21]. **Domain** [AFB+21, AJH23, BK21, DNT22, GSZ20, RS21a, SSZ23, WYZ20a, vWR23]. **Domains** [AJH23, CC23, CFV20, DL20b, GHM20, HW22, KLMZ21, LWX20, LL22b, MZZ22, NO21, QS21, SJ21, SST+20, ST22, ZW22]. **Douglas** [AK20b]. **Downscaling** [GANT20]. **DP** [BPP20]. **DPG** [FH24]. **Drift** [BJ22, BDG23, CCW22]. **Driven** [BH21, Col23, CHS21, NSD22, ND22, PSS22]. **DtN** [BLY21]. **Dual** [BBH22, CK20, CWW24, WW20]. **Dynamic** [MQ23, Met21]. **Dynamical** [Col23, DEL21, EHK24, Guo21]. **Dynamics** [BCF22, DGYZ22, FV23, HLS23, KD21, LPW24, LZCZ22, WZ21, ZZZ22a]. **Dziuk** [BL23, Li20, Li21, YC21].

Earth [GP22]. **EC** [CCMP24]. **Edge** [WYZ20b]. **Effective** [LWXZ20]. **Efficiency** [HP20]. **Efficient** [BS22, Met21, PSS22, SSX23, WL23]. **Eigenspaces** [DE24]. **Eigenstates** [ST22]. **Eigenvalue** [ACZ24, CZZ20, CP23, CLLZ24, GLS23, HMO22, HP20, HT20, Kam21, LX23, RN20, Sch23, SC23a]. **Eigenvalues** [DE24, GO23, GSW21, LWX24]. **Einstein** [HLM22]. **Elastic** [BLY21, Bar20, CHH23, QS21, ZW22]. **Elasticity** [AKNY20, YLZ22, ZQ23]. **Electric** [HY22]. **Electromagnetic** [WYZ20a]. **Element** [AKNY20, ABBV23, AH21, AJH23, BL23, BLY21, BZ21, BJL23, BPW23, BLV20, BGJ22, BPP20, BDL20, BGHY22, BFS23, BFS20, BHL24, CGO20, CK20, CSWY23, CZZ20, CM21, CFV22, CZZ22, CHH23, CHW24, CAS23, DN24, DFFS22, DL20b, DGL20, DWW22, ER20, ER21, FA20, FLM21, FLH23, GS23, GANT20, Geo21, GSW21, GLW22, Han23, HG22, HL23, HJHUT20, HLM22, HZZ22, JKVY23, JLWZ22, JSZ23, JZ21a, Kam21, LSTY21, Li20, LWX20, Li21, LAZ22, LZ23, LS24, LL22b, MCL20, MZZ22, MSD22, Met21, Mu20, MRV23, NRY22, QW20, QZ20, RSS22, Spr24, Sto20, WW20, WYZ20b, WX20, WB21, WLF23, ZSH20, dDFH23]. **Elements** [AW20, BL23, BV22, CKP23, CHW22, CH22b, Gaw20, GMMP24, Li21, NO21, WHL21]. **Elliptic** [BIP22, CM21, DHM23, DE20, EEST22, EH22, GHM20, GMP22, HL23, Hu23, JZ21a, LWX24, Mai21, MK20, MS23, QZ20, SC23a, Spr24, WYZ20b]. **Embedded** [LR20, NWZ22]. **Energy** [ALW21, ACYZ21, AHW23, BCJQ24, BLN21, CDCVV21, DWW22, EHK24, FLM21, GMSZ22, GKMR22, GWY22, HLTW21, LSTY21, lLTZ20, LMN23, MCL20, MQ23, PCQL21, RK20, SX20b, SWW22, WB21]. **Energy-based** [PCQL21]. **Energy-conserving** [FLM21]. **Energy-decaying** [ALW21]. **Energy-Preserving** [WB21]. **Energy-Stable** [GWY22]. **Enhanced** [DGG20, PCQL21]. **Enhancing** [MR21]. **Enriched** [BV22, YLZ22]. **Ensemble** [AHV22, BSWW22, CST20, JLY21, SSZ23]. **Entropic** [CHKL22]. **Entropy** [BPS22, CHKL22, CG20, DMM24]. **Equation** [ABB+21, ALW21, AGS21, BLM21, BCY21, BCF22, BW24, BK21, BDL20, BS22, BDE21, BGG23, BDE23, CS22a, CKP23, CFV20, CMZ21, CDP22, CHSZ23, CHS21, DFFS22, DNT22, DEL21, DWW22, FLM21, Geo21, GM22, GMMP24, GSZ20, GPR20, HQY21, JLWZ22, KK20, KLS20, KM20b, LY20, LWY23, lLTZ20, LLZZ22, LS24, MZZ22, MST22, MSS20, Mus20, NSD22, ND22, NWZ22, PR22, QW23, SX20a, Sto20, WK23, WYZ24, WB21, YZ20, YHLR22, ZW22,

ZW20a, ZW23, Zou23, QW20]. **Equations** [ACM24, AB20, ADM17, ADM21, Avi23, BR20b, BM22, CCHHK20, CJZ22, CFF20, CN21, CFV22, CFV24, Che21, DH22, DL20a, DE20, DS20, lDzSW22, DK23, DGL20, ER21, EEST22, EH22, FHW21, FL21, FLH23, FM21, GS22, GS23, GANT20, GHM20, GLS23, GO20, HM22, HHL24, Han23, HZ20, HX20, HS20, Hu21, HS21, HS23, HK20, IG21, JKVY23, Kam21, Kar21, KN20, KS20, KV22, Kop20, KR23d, LL22a, Led21, LWX20, LS20a, LWZ20, LAZ22, LM22a, LM22b, LWS22, LMS22, LLMR23, LWZ23, LWC23, MQ23, MS23, Met21, NPT22, OSV23, PS22, QS21, QZ20, SGT20, SW23, SZ21a, SX20b, SR20, Spr24, SWZ20, WZ20, WW20, WZZ22, WS23, WJS23, XSZ20, YZDCNC23, ZZZ22b, ZW20b, ZDMZ20]. **Equilibrated** [CFV23]. **Equivalent** [AKM23]. **Ergodic** [CL21]. **Ergodicity** [TS23]. **Ericksen** [NRY22]. **Erratum** [BL23]. **Error** [ALOS23, AXSZ22, AGS21, ACZ24, ADM17, ACW21, BCY21, BCF22, BW24, BPW23, BLV20, BV22, BBH22, CSWY23, CDG23, CH22a, CGN24, CFV22, CFV24, CMZ21, CGP20, Col22, DLZ20, DN21, DEL21, DGG20, DRV21, DMS21, DS20, DGYZ22, FV23, FHW21, FGP21, Gal21, GANT20, GGPS21, GO21, GK24, HW22, HZ20, HZW23, HS21, HS23, JZ21a, KS20, KK20, KRS$^+$21, KM20a, Kop20, KR23d, KM20b, LS20a, LWS22, MST22, MS20, MPV20, Mus20, NT21a, NR21, Otá22, QW20, WLPU21, WL20, WZ21, Wan23, WYZ24, WR21, WB21, XSZ20, ZZZ22a, ZW20a, ZDMZ20, Zou23, dVCN$^+$23, vWR23, ADM21, JK22]. **Errors** [BIP22]. **Estimate** [AXSZ22, BBH22, DRS24, FHW21, XSZ20, ZW20a]. **Estimates** [AM22, ACZ24, ADM17, ADM21, BW22, BPW23, BLV20, BV22, BLN21, CGO20, CSWY23, CDG23, CFV22, CFV24, CMZ21, CGP20, DLZ20, DRV21, DMS21, GANT20, GO21, HW22, HZ20, HG22, KR23d, MST22, QW20, SR20, WZ21, ZZZ22a]. **Estimation** [BIP22, CDD$^+$20, DGYZ22, GHLY23, KN23, WL20, Zou23]. **Estimator** [GGPS21, KK20, MPV20]. **Euler** [AGS21, ADBP22, BJ22, KLS20, ZZZ22a]. **Eulerian** [HX20, LMN23, vWR23]. **Evaluation** [SWZ20]. **Events** [WLPU21]. **Evolutionary** [WS23]. **Evolutions** [MS20]. **Evolving** [LL22b]. **Exactly** [LS22]. **Expanding** [ST22]. **Expansion** [CGR20, FDvW21, HN21, SGT20]. **Expansions** [ZWC20]. **Expected** [FP20]. **Explicit** [AH21, BGG23, CFV22, CFV24, CAS23, HM22, MST20, OSV23, RK20, AK20a, LWZ20]. **Exponent** [BDS23]. **Exponential** [BW24, DH22, FMMS23, HKYY21, JLQ22, LM22a, LMS22, LLMR23, LWZ23, MS23, NWZ22, OSV23, ZWC20, Zha22]. **Exponential-Type** [NWZ22]. **Extension** [HHM$^+$20]. **Extensions** [Hu21]. **Exterior** [DFFS22]. **Extrapolation** [ZEG20]. **Extrinsic** [CL20, CHW24].

Face [VL23]. **Factorization** [ST22]. **Family** [HZZ22]. **Fanbeam** [BH21]. **Fast** [BN23, DL20a, QS21, SST$^+$20, SWZ20, ZDMZ20]. **FBSDEs** [YZZ20]. **FEAST** [HT20]. **FEM** [AP21a, AP21b, AP22, BIP22, BNY23, CN21, DL20b, FKM22, FMMS23, FHW21, ZW23]. **FEMs** [Sun21]. **FETI** [BPP20]. **FETI-DP** [BPP20]. **Fibrous** [GKMR22]. **Field** [Avi23, CSZ24, CL21, FGOS20, HN21, Kar21, LS22, LJL$^+$21, OS24, WZ21]. **Fifth** [HKYY21]. **Fifth-Order** [HKYY21]. **Film** [FM21]. **Filter** [QWL22]. **Filtered** [bLWZ21, WLF23]. **Filtering** [ACM24]. **Filters** [FGK23]. **Finite** [AF21, AKNY20, AGS21, AY20, AH21, AJH23, BL23, BLY21, BZ21, BJL23, BPW23, BLV20, BDL20, BGHY22, BFS23, BHL24, BD23, CGO20, CK20, CSWY23, CG20, CCHHK20, CZZ20, CM21, CFV22, CH22b, CZZ22, CHH23, CAS23, DN21,

DN24, lDzSW22, DL20b, DGL20, ER20, ER21, FA20, FLM21, FL21, FLH23, FMR22, GvR24, GS23, GANT20, Gaw20, Geo21, GSW21, GLW22, Han23, HL23, HLM22, HZZ22, HPBL21, JKVY23, JLWZ22, JSZ23, JZ21a, JZ21b, Kam21, KSG23, LSTY21, Li20, LWX20, Li21, LZ23, LS24, MCL20, MZZ22, MSD22, MT20, MNO21, Met21, Mu20, MRV23, MSS20, NRY22, QW20, QZ20, RN20, RSS22, SBL22, Spr24, Sto20, WW20, WK23, WX20, WB21, WLF23, ZSH20, ZW22, Zou23, dDFH23, BGJ22, LL22b]. **Finite-Difference** [SBL22]. **Finite-Element** [AJH23]. **Finite-Volume** [JZ21b]. **Finitely** [KOO23]. **First** [CSZ24, EG23, GS22, LJL+21, QZ20, WYZ24]. **First-Order** [EG23, LJL+21, QZ20, WYZ24]. **Fixed** [BC22, BN23, EPRX20]. **Fixed-Point** [EPRX20]. **Flow** [AFB+21, AP21a, AP21b, AP22, BL23, BW22, BHL24, CLLZ24, DN21, DN23, GLS20, GLW22, HP20, HD24, JSZ23, Li20, Li21, Sun21, YC21, GWY22]. **Flows** [CWW24, GAJN23, GMSZ22, JLQ22, Lab20, LWXZ20, LWXZ22, NR21, Rub20, ZEG20]. **Fluid** [ALOS23, FK22, GP22, ZSH20, ZRZ23]. **Fluid-Fluid** [ALOS23]. **Fluid-Structure** [FK22]. **Fluids** [FGOS20]. **Flux** [BR20a, BGHY22, CFV23, ER20]. **Flux-Mortar** [BGHY22]. **Fluxes** [LZM+20]. **Fokker** [BS22, LLZZ22, WW20]. **Followed** [GKS23]. **Forchheimer** [FA20, ZCPZ21]. **Forcing** [HL23]. **Form** [DWW22, EG23, LZ23, QZ20, Spr24, WK23]. **Formulae** [KYB23]. **Formulation** [BHYZ23, BPS22, FGOS20, GS22, GVMRBV23, GLS20, Led21]. **Fortin** [FH24]. **Forward** [HHL24]. **Fourier** [CLL24, HQY21, LET20, PR22, PS21, SST+20, ZL21]. **Fourier-Based** [PS21]. **Fourier-like** [SST+20]. **Fourier-Matching** [ZL21]. **Fourth** [CGN24, MZZ22, XSZ20]. **Fourth-Order** [CGN24, MZZ22, XSZ20]. **Fractal** [JK22]. **Fractional** [ADS23, BLN21, BG20, BGG23, lDzSW22, FKM22, FMMS23, GO21, HW22, HZ20, Kar21, KM20a, Kop20, KLS20, Mus20, NSD22, ND22, Otá22, SST+20, SSX23, WS23, ZW20a, ZW20b]. **Fractional-Derivative** [KM20a]. **Fracture** [AFB+21, GHM21]. **Framework** [CCMP24, CS22c, LMN23, MG23, RS21b, XZ22, vWR23]. **Free** [BCJQ24, BHL24, DN24, Han23, LS22, NRY22, PS22, SW23, WHL21, YZ20, YLZ22, dVCN+23, LLS21, NO21]. **Free-Congested** [PS22]. **Freedom** [CKP23]. **Frequency** [AB24, CFV22, CFV24]. **Frequency-Explicit** [CFV22, CFV24]. **Frequency-Independent** [AB24]. **Friedrichs** [LZM+20]. **Frog** [JLY21]. **Front** [LWXZ22]. **Full** [BGJ22, Che21, CHS21, GAJN23]. **Fully** [BR20b, CRR24, GWY22, Guo21, QW20, SSZ23, YC21, vWR23]. **Function** [ACW21, CC23, GNÖ23, Led21]. **Functional** [AB20]. **Functionals** [BCJQ24]. **Functions** [AY20, BCKS21, CS23, GvR24, GKS23, Gla20, HHT23, HO20, HO24, Huy22, IG21, KOO23, KSG23, KM20a, MO21, PS21, PU22, RW24, SZ21a, Xia21].

Gain [OP24]. **Galerkin** [AXSZ22, AM22, ADS23, ADM17, ADM21, BCF23, BPS22, BS22, CDG23, CJZ22, CSZ24, CFV24, Che21, CDP22, CHSZ23, CS22c, DLZ20, DHS24, DRV21, DMS21, DE22, DS20, EG23, FA20, FHN23, GS23, GM22, HZ20, HJHUT20, HX20, HQY21, KR23a, KR23b, KR23c, KK20, KR23d, LET20, LR20, LZM+20, LLS21, MCL20, MST20, Mu20, MvdZ20, Pap22, PR22, SST+20, WW20, WK23, WJS23, XSZ20, YZ20, YLZ22]. **Galerkin-Mixed** [GS23]. **Galerkin/Hermite** [BCF23]. **Game** [CSZ24, OS24]. **Games** [CL21, LJL+21]. **Gamma** [NRY22]. **Gamma-Convergent** [NRY22]. **Gauge** [LWZ23, MQ23].

Gauge-Transformed [LWZ23]. **Gauss** [FLM21, KSG23]. **Gaussian** [Gaw20, Huy22, NSD22, ND22, QS21]. **General** [Gla20, GNÖ23, HHL24, Mai21, RS21b, ZEG20]. **Generalized** [CDP22, CAS23, GNS20, GK24, IG21, JLQ22, LZM+20, LWZ23, MSD22, MSS20]. **Generate** [MU22]. **Genetic** [CCW22]. **Genus** [DN21]. **Genus-0** [DN21]. **Geodesics** [ZN23]. **Geometric** [ABBV23, LRK22, TS23, WZ23, WJS23]. **Geometries** [BPV20]. **Geothermal** [QWL22]. **Gibbs** [CHKL22]. **Ginzburg** [GS23, MQ23]. **Glaciology** [dDFH23]. **Global** [BLV20, HP20]. **Gordon** [BCF22, CS22a, MCL20]. **Grad** [EG23, WX20, SGT20]. **Graded** [KM20a, Mus20, ZW20b]. **Gradient** [BHYZ23, BC20, CWW24, CHH23, CLLZ24, DRS24, DL20a, HP20, HK20, JLM22, JLQ22, LWY23, lLLL23, Par20, SZ20, ZEG20]. **Gradient-Dependent** [HK20]. **Gradients** [GZ21]. **Green** [GvR24, KN20, NPT22]. **Grid** [XZ22]. **Grids** [AKNY20, BGHY22]. **Gross** [CLLZ24, HP20]. **Guaranteed** [CP23].

Halton [OP24]. **Hamilton** [CFF20, FL21]. **Hamiltonian** [Ohs23, TS23]. **Harmonic** [BPW23, GLW22, KOO23]. **Hasimoto** [BMS24]. **HDG** [CMZ21, FK22, LRK22]. **Heat** [BDE23, GMMP24, GLW22, KM20b]. **Hellan** [AW20, Led21]. **Helmholtz** [BDE21, CFV20, CAS23, DFFS22, DNT22, GSZ20, HM22, HS20, JLWZ22, LX23, MST20, ZW23]. **Hermite** [AF21, BCF23, KSG23, SGT20]. **Hermite-based** [AF21]. **Herrmann** [AW20, Led21]. **Heterogeneous** [CFV20, CAS23]. **Heuristic** [KR20]. **Hidden** [ZW20a]. **Hidden-Memory** [ZW20a]. **High** [ALOS23, AXSZ22, AH21, BL23, BDE21, BGG23, BDE23, CT21, CDW24, DE22, DHM23, DE20, EW21, FLM21, FdRS24, GvR24, Gaw20, Gla20, GGHS22, GMP22, GK24, HHL24, HS21, HK20, JLWZ22, KN23, Lab20, LET20, Li21, LWC23, LCS24, LZCZ22, Mai21, PS21, RW24, SJ21, SC23b, WZ20, YHLR22, ZZZ22a, ZW22]. **High-Accuracy** [YHLR22]. **High-Dimensional** [GK24, HHL24, HK20, PS21, RW24]. **High-Index** [LZCZ22, ZZZ22a]. **High-Order** [AH21, BL23, BDE21, BDE23, CDW24, DE22, DHM23, GvR24, Gaw20, GMP22, HS21, LET20, LWC23, Mai21, SJ21, SC23b, CT21, DE20, FLM21, Li21, WZ20]. **Higher** [CG24, DRV21, DE24, Zha23a]. **Higher-Order** [CG24, Zha23a]. **Highly** [WZ23]. **Hilliard** [CSWY23, LMR23, QW20, CHSZ23, CHS21, Met21]. **Hiptmair** [Hu21, Hu23]. **Hodge** [WB21]. **Hölder** [HW22]. **Homogeneous** [HQY21]. **Homogenization** [FGP21, Spr24]. **Homogenized** [Spr24]. **Homographic** [DH21]. **Hood** [GS21]. **Horizon** [HPBL21]. **hp** [AP22]. **hp-FEM** [AP22]. **Hurst** [ND22]. **Hybrid** [BCT21, CT21, CFV20, DE22, ER20, GMP22, MS21]. **Hybrid-Mixed** [CFV20]. **Hybridizable** [CHSZ23, DS20]. **Hybridized** [BDE21]. **Hydrodynamic** [LWS22, LWX20]. **Hydrodynamics** [MT20]. **Hyperbolic** [CDW24, DMM24, DN23, HX20, LLS21, SBL22, XSZ20]. **Hyperinterpolation** [bLWZ21]. **Hypersingular** [WM23]. **Hypocoercivity** [Geo21]. **Hypocoercivity-compatible** [Geo21]. **Hysteresis** [PS20].

Ideal [WJS23]. **Identification** [JZ21a, ZZZ22b]. **ii** [Hu23, AP21b, BCKS21, CS22b, JK22, KR23b]. **III** [AP22, KR23c]. **Ill** [GB20]. **Ill-Posed** [GB20]. **IMEX** [GGHS22, HS21, LWS22, WYZ24]. **IMEX1** [PCQL21]. **IMEX1-LDG** [PCQL21]. **Immersed** [Guo21]. **Impedance** [GSZ20].

Implementation [AP22]. **Implicit** [BR20b, BGG23, CDP22, CCMP24, CRR24, GGHS22, Li20, LWZ20, LWC23, YC21, ZEG20, AK20a, LMS22]. **Implicit-explicit** [LWZ20, AK20a]. **Implicitly** [FGOS20, SJ21]. **Importance** [HZW23]. **Imposed** [GLS20]. **Imposition** [BFS20]. **Improved** [BCF22, DHM23, WR21]. **Improves** [EPRX20]. **Improving** [HKYY21]. **Including** [GAJN23]. **Inclusions** [OS24]. **Incompressible** [BHL24, FGOS20, GAJN23, Han23, NR21, Rub20, SR20, Sun21]. **Incremental** [MS20]. **Indefinite** [CM21]. **Independent** [AB24, Huy22, MS20]. **Index** [LZCZ22, ND22, ZZZ22a]. **Induced** [GKMR22]. **Inequalities** [WYZ20b]. **Inequality** [dDFH23]. **Inexact** [XZ22]. **Inextensible** [Bar20]. **Inf** [Pra20, Gal21]. **inf-sup** [Gal21]. **Infinite** [AF21, CS23, JLM22]. **Infinite-Dimensional** [JLM22]. **Informed** [DMM24]. **Inhibiting** [DGG20]. **Initial** [LM22a, NH20]. **Injection** [LRK22]. **Instationary** [GS22]. **Integral** [FKM22, FMMS23, GO20, HW22, KYB23, LM22b, SST$^+$20, SSX23, WM23, YHLR22]. **Integrals** [BHLZ24]. **Integration** [BMS24, CLW21, CLS23, GKS23, GSM24, GK24, IKM22, LTTF21, MO21]. **Integrator** [BLM21, BW24, DEL21, JLQ22, KLS20, LMS22, LWZ23, NWZ22]. **Integrators** [CS22a, DH22, Ohs23, RS21b, WZ23]. **Integro** [LZ23, lLLL23, OSV23]. **Integro-Differential** [LZ23, lLLL23, OSV23]. **Interacting** [JLL21, LWXZ22]. **Interaction** [ALOS23, DXY22, FK22]. **Interface** [CS22c, Guo21, SSZ23]. **Interface-Coupled** [CS22c]. **Interfaces** [ZW22]. **Interpolation** [AK20b, Bör22, GFSZ20, LCS24]. **Interpolatory** [MG23, Pra20]. **Intervals** [CS23]. **Invariants** [IKM22, Ohs23]. **Inverse** [ACL20, BLX20, CZZ22, GB20, JLM22]. **Inversion** [AHV22, BSWW22, CST20]. **Involution** [EG23]. **Involution-Preserving** [EG23]. **Involving** [HX20]. **Isogeometric** [BPV20, MST22]. **Isometric** [RSS22]. **Isoparametric** [LL22b]. **Itô** [GHLY23]. **Iterated** [Bör22]. **Iteration** [BN23]. **Iterations** [AHW23, BCJQ24]. **Iterative** [LX23, MPV20].

Jacobi [CFF20, FL21, LWX24]. **Johnson** [AW20, Led21]. **Johnson-like** [Led21]. **Joseph** [SSZ23]. **Jump** [BCT21, Hu21, Hu23]. **Jump-Diffusion** [BCT21].

Kacanov [BDS23]. **Kalman** [AHV22, BSWW22, CST20]. **Kármán** [CN21]. **Kawasaki** [JZ21b]. **KdV** [LWZ23]. **Keller** [SX20b]. **Kernel** [CCL23, GB20, LTTF21, LCS24]. **Kernel-Based** [CCL23]. **Kernels** [BG20]. **Kind** [LM22b, WYZ20b]. **Kinetic** [BS22, LPW24, SGT20]. **Klein** [MCL20, BCF22, CS22a]. **Kolmogorov** [Geo21]. **Korobov** [KN23]. **Korteweg** [CDP22]. **KPP** [LWXZ22]. **Krasnosel'skiı** [BN23]. **Krylov** [AKM23, BCKS21]. **Kutta** [AXSZ22, BKSS24, GGHS22, OSV23, RK20, SZ20, SWW22, XSZ20].

L2 [MG23, QW23]. **L2-Optimal** [MG23]. **L2-Type** [QW23]. **Lacking** [Pra20]. **Lagrange** [BHL24, CSZ24, CS22b, DLZ20, KLMZ21, LWX20]. **Lagrangian** [CFF20, HX20, LMSS20, LMN23, MT20]. **Landau** [AGS21, BCJQ24, GS23, MQ23]. **Langevin** [LPW24]. **Laplace** [BHL21, BG20]. **Laplacian** [ADS23, BDS23, BLN21, CP23, CDCVV21, FKM22, FMMS23, HW22, HMO22, SST$^+$20, SSX23]. **Large** [BDS23, BM22, CCHHK20, CHJS21, HS20, RSS22]. **Large-Scale** [BM22, RSS22]. **Lattice** [GvR24, LYC23]. **Lavrentiev**

[BGJ22]. **Law** [PS20]. **Laws** [AXSZ22, BR20a, CDW24, DMM24, FR21, FMR22, LZM+20, LLS21, SWW22]. **Lax** [LZM+20]. **Layer** [JLWZ22]. **Layered** [HN21, ZWC20]. **Layers** [BK21, ZSH20, Zha22, Zha23a, ZRZ23]. **LBB** [Sto20]. **LDG** [PCQL21]. **Leap** [JLY21]. **Leap-Frog** [JLY21]. **Leapfrog** [CHS20, CH22a, HLS23, ZN23]. **Leapfrog-Chebyshev** [CHS20]. **Leapfrog-Type** [CH22a]. **Learning** [BHYZ23, CL21, DGYZ22, GHLY23, GB20, HHL24, MR21]. **Least** [CCL23, GS22, HS20, LY20, QZ20, Sto20]. **Least-Squares** [CCL23, QZ20, Sto20]. **Leffler** [KLS20]. **LES-C** [ALOS23]. **Level** [DL20b, LX23, LWX24, FA20]. **Level-Sets** [DL20b]. **Lifshitz** [AGS21]. **Lifting** [PS24]. **Liftings** [AP20]. **like** [Led21, RS21a, SST+20]. **Limit** [AF21, AHV22, BSWW22, CS22a, DEL21, DXY22]. **Limited** [MST22]. **Line** [GKN21, ZDMZ20]. **Linear** [AB24, AFB+21, BIP22, CHJS21, DHS24, DEL21, DGYZ22, FHW21, FK22, GM22, IKM22, KD21, LMSS20, LYC23, MvdZ20, Ni21, SGT20, Sch23, SWW22, XSZ20, YLZ22, ZQ23]. **Linearized** [HLM22, KN20, LWX20]. **Linearizing** [LUZ20]. **Linearly** [EPRX20, Huy22, Li20, YC21]. **Lines** [LMN23]. **Lipschitz** [AY20, HW22]. **Liquid** [BNY23, GWY22, NRY22]. **Local** [BLV20, BLN21, CFV23, DXY22, FKM22, GSZ20, JK22, KR23a, KR23b, KR23c, KV22, LZM+20, MS20, MRV23, ZWC20, ZDMZ20]. **Localization** [NT21a, Wan23]. **Localized** [MS21]. **Locally** [MSD22, YHLR22]. **Locking** [YLZ22]. **Locking-Free** [YLZ22]. **Log** [CS23, NT21b]. **Logarithmatic** [Xia21]. **Logarithmic** [WYZ24]. **Lognormal** [GK24]. **Long** [BCF22, Geo21, LWZ20, WS23]. **Long-Time** [BCF22, WS23, Geo21, LWZ20]. **Lossy** [MST20]. **Low** [BW24, BCKS21, CS22a, DEL21, EHK24, LMS22, MR21, NWZ22, RS21b]. **Low-Discrepancy** [MR21]. **Low-Rank** [BCKS21, DEL21, EHK24]. **Low-Regularity** [LMS22, NWZ22]. **Lower** [AH21, CZZ20, CP23, CHH23, GO23, Kop20]. **Lower-Order** [CHH23]. **Lower-Triangular** [AH21]. **Lowest** [Sun21]. **Lowest-Order** [Sun21]. **lumped** [DE20]. **Lumping** [ER21]. **Lyapunov** [SZ21a].

MAC [LS20a]. **Machine** [BHYZ23, CL21]. **Magnetic** [BCY21, LS22, WZ21]. **Magneto** [LWX20, LWS22]. **Magneto-Hydrodynamic** [LWS22, LWX20]. **Magnetohydrodynamics** [BD23]. **Magnetostatic** [GGPS21]. **Main** [Hu23]. **Manifolds** [CL20, CCMP24, TS23]. **Mann** [BN23]. **Mapped** [SST+20]. **Maps** [BMS24, BPW23, GLW22, WR21, Zha23b]. **Marini** [AK20b]. **Markov** [BCT21]. **Maruyama** [BJ22]. **Mass** [AP21a, AP21b, AP22, AH21, CCW22, DE20, ER21, FLM21, GLS20]. **Mass-** [FLM21]. **Mass-lumped** [DE20]. **Matched** [BK21, JLWZ22, Zha22, Zha23a]. **Matching** [ZL21]. **Material** [CDCVV21]. **Matérn** [BGNS20]. **Matrix** [AH21, BCKS21, GHM21, GLS23]. **Maximal** [AM22]. **Maximization** [CDCVV21]. **Maximum** [HG22, lLTZ20, MQ23]. **Maximum-Principle** [lLTZ20]. **Maxwell** [ACZ24, AJH23, CFV22, CFV24, Che21, DS20, ER21, GO23, GSW21, HY22, Hu21, HLTW21, LX23, MCL20]. **McKean** [HHL24]. **Mean** [BL23, CSZ24, CL21, DN21, HO20, HO24, Li21, LJL+21, OS24]. **Means** [LLMR23]. **Measurable** [BJ22]. **Measure** [Col23, PSS22]. **Measure-Preserving** [Col23]. **Media** [DL20a, FA20, Sun21, ZWC20]. **Median** [GSM24]. **Medium** [ACL20, FM21].

Member [Lab20]. **Membrane** [BNY23]. **Memory** [ZW20a]. **Mesh** [ACL20, CAGD22]. **Meshes** [CDG23, CJZ22, CKP23, ER20, Guo21, Kam21, KM20a, Mus20, QW23, YZ20, ZW20b]. **Meshfree** [HW21, LTTF21]. **Meshless** [CL20]. **Method** [AB24, AXSZ22, ALW21, ACYZ21, AKNY20, ACZ24, ADS23, ABBV23, ABCS24, AW20, BL23, BLY21, BZ21, BJL23, BHLZ24, BGJ22, BPP20, BDL20, BFS20, BDE21, BDE23, BHL24, CGO20, CK20, CHKL22, CLL24, CJZ22, CCW22, CZZ20, CT21, CFV20, CDP22, CCL23, CHH23, CHSZ23, CAS23, CLR23, DHS24, DN24, DFFS22, DHM23, DSS24, DL20a, DL20b, DWW22, ER21, EH22, FA20, FL21, FLH23, FA22, FGP21, FDvW21, FMR22, FHN23, GANT20, GM22, GMP22, GO20, HZ20, HW21, HX20, HN21, HS20, HQY21, JKVY23, JLY21, JLWZ22, JSZ23, JLL21, KVM22, LL22a, LR20, Led21, Li20, LWX20, LY20, LUZ20, Li21, LAZ22, LLMR23, LX23, LWX24, lLLL23, LL22b, LLS21, LMN23, LWXZ22, MZZ22, MU22, MRV23, Pap22, PCQL21, QS21, QW23, RS21a, SC23a, SSX23, Sto20, WW20, WK23, WYZ20a, WLF23]. **Method** [WM23, YZ20, YLZ22, ZW22, Zha23b, ZCPZ21, ZQ23, ZL21]. **Method-of-Lines** [LMN23]. **Methods** [AM22, AY20, AB20, AH21, Avi23, BGNS20, BCY21, BCF22, BCKS21, BCF23, BM22, BKSS24, BGHY22, BFS23, BS22, BPV20, BGG23, CDG23, CH22a, CWW24, CM21, CL20, CHJS21, CMZ21, CHW24, DNT22, DE22, DS20, DGYZ22, ER20, EPRX20, FLM21, FR21, FdRS24, Geo21, GPHHA20, GGHS22, GB20, GLW22, HLS23, Hal21, HG22, HJHUT20, JLZ24, KD21, KK20, KR23d, LET20, LZM+20, LWZ20, LM22b, LlL22, LZ23, LWC23, LJL+21, LS24, LRK22, LMN23, MCL20, MSD22, Mu20, MvdZ20, NRY22, NR21, OSV23, PR22, Par20, PS21, QW20, QZ20, RK20, Sch23, SZ20, SST+20, SWW22, WL23, WX20, WB21, XSZ20, XZ22, YDS21, AK20a]. **Metric** [CAGD22]. **MHD** [LS22, WJS23]. **Mindlin** [FHN23, GS21]. **Minimal** [BPV20]. **Minimization** [CT21, GKMR22, MS20, MvdZ20, MRV23, TWZZ23]. **Minimizations** [CFV23]. **Minimizing** [BCJQ24]. **Minimum** [TWZZ23]. **Minimum-Surface** [TWZZ23]. **MINRES** [FHK22]. **Miscible** [Sun21]. **Mittag** [KLS20]. **Mittag-Leffler** [KLS20]. **Mixed** [AP21a, AP21b, AP22, AKNY20, ACZ24, BGHY22, BFS23, CM21, CFV20, CHH23, ER20, FA20, GS23, GKN21, GLS20, JKVY23, KYB23, KLMZ21, MvdZ20, MRV23, SSZ23, Sun21, WB21, ZQ23]. **Mixed-Dimensional** [KLMZ21]. **mKdV** [NWZ22]. **Mobility** [CWW24]. **Model** [BNY23, BCT21, BG20, CHH23, CDD+20, DIL+20, DHS24, FA20, FK22, GV20, GGC23, HD24, JLY21, LZ23, NRY22, Pra20, RS21a, SSZ23, ZSH20, ZRZ23, vWR23]. **Modeling** [ALOS23, GHM21, MG23]. **Models** [AFB+21, BG20, DXY22, GHM21, KS20, Lab20, lLLL23, MU22, SC23b, WLPU21, XLZZ24]. **Modified** [ACW21, GSW21]. **Molecular** [FV23]. **Moment** [CLL24, PR22]. **Moment-Preserving** [CLL24]. **Moments** [KYB23]. **Monolithic** [FK22]. **Monotone** [BR20a, EG22, HW22, MvdZ20]. **Monte** [TS23, CG24, FA22, GKS23, GSM24, HAST22, HZW23, KVM22, LWY23, SSX23]. **Morley** [CN21, CKP23]. **Mortar** [BGHY22, JKVY23]. **Motion** [EG22, FLO20, LMSS20]. **Moving** [Guo21, SJ21, vWR23]. **mpEDMD** [Col23]. **Multidegree** [HHM+20]. **MultiDerivative** [GGHS22]. **MultiDimensional** [MK20]. **Multigrid** [ABBV23, LRK22]. **Multilevel** [GHM20, HAST22, HK20, MPV20]. **Multiple** [LWX24, SSX23]. **Multiplicity** [DE24]. **Multiplier** [BHL24, CS22b]. **Multipliers** [KLMZ21]. **Multipoint**

[AKNY20, BFS23, ER20]. **Multipole** [FDvW21, ZWC20]. **Multirate** [CH22a, CS22c]. **Multiscale** [CFV20, CAS23, DHM23, JKVY23, MS21, Mai21, QS21]. **Multistep** [DGYZ22, KD21]. **Multivariate** [LL22a, PU22].

Naghdi [KN20, NPT22]. **Narrow** [FL21]. **Narrow-stencil** [FL21]. **Natural** [WLF23]. **Navier** [CSWY23, LMR23, FLH23, GANT20, Han23, HS21, HS23, KR23a, KR23b, KR23c, KS20, LS20a, LMS22, PS22, SR20]. **Near** [WZ23]. **Nearly** [BHLZ24]. **Nédélec** [GGPS21]. **Neighborhoods** [DXY22]. **Nematic** [NRY22]. **Networks** [AN21, AY20, ABCS24, BNY23, CFF20, CLW21, CLS23, DMM24, FGK23, FMR22, HPBL21, MS23]. **Neumann** [Zha23b]. **Neural** [ABCS24, Avi23, DMM24, HPBL21, LLZZ22]. **Newton** [MU22, SC23a, TWZZ23]. **Nicolson** [AGS21, JLY21, SR20]. **Nodal** [BPW23]. **Noise** [BJ22, CHS21, KLS20, NSD22, ND22]. **Noisy** [DSY21, bLWZ21]. **Non** [AY20, CM21, GS23, LWZ20]. **Non-Lipschitz** [AY20]. **Non-self-adjoint** [CM21, LWZ20]. **Non-Uniform** [GS23]. **Nonautonomous** [RK20]. **Noncoercive** [AKM23]. **Nonconforming** [BDE23, CKP23, WHL21, ZW22]. **Nonconvex** [LWX20]. **Nondivergence** [QZ20, Spr24]. **Nondivergence-Form** [Spr24]. **Nonintrusive** [Ni21]. **Nonlinear** [AFB$^+$21, AXSZ22, BCY21, BCF22, BW24, BM22, CCHHK20, CWW24, CCMP24, DRV21, DE20, EH22, FLM21, FR21, JLWZ22, KV22, LZM$^+$20, LUZ20, LM22a, lLLL23, MvdZ20, RK20, Sch23, WL23, WS23, Zou23]. **Nonlinearities** [HK20]. **Nonlinearity** [BCF22, BW24, CGN24]. **Nonlocal** [BG20, DXY22, FR21, HD24, KVM22, KV22, LTTF21, LJL$^+$21, YZDCNC23, ZDMZ20]. **NonMatching** [BGHY22]. **Nonmonotone** [GMP22]. **Nonoverlapping** [EH22, YDS21]. **Nonregular** [BDG23]. **Nonrelativistic** [BCY21, CS22a]. **NonReversible** [SZ21b]. **Nonseparable** [Ohs23]. **Nonsmooth** [BC20, BC22, LWX20, LM22a, DGL20, LM22b]. **Nonuniform** [QW23]. **Norm** [CMZ21, GPHHA20, HG22, PU22, QW23]. **Normal** [BBH22]. **Normalization** [WR21]. **Note** [PU22]. **Novel** [ACZ24, HS20, LZ23, MSD22]. **Number** [BGG23, JLWZ22, Lab20, NH20]. **Numbers** [ALOS23, HS20]. **Numerical** [AHW23, ABCS24, ADBP22, BMS24, Bar20, BCT21, CL21, CDCVV21, CLR23, CCMP24, DDO20, DK23, FGOS20, FGP21, FR21, GP22, GWY22, GK24, HY22, HN21, HD24, JLZ24, LL22a, LZM$^+$20, LS22, LM22b, LYC23, MO21, OS24, Pap22, PS22, Rub20, SW23, WL23, WS23, ZRZ23, ZW20a, ZW20b, ZL21]. **Nystrom** [FA22].

Observable [FV23]. **Observation** [MST22, ZZZ22b]. **Obstacle** [HY22]. **ODEs** [AB24, CH22a]. **One** [DFFS22, GPHHA20]. **One-Equation** [DFFS22]. **One-Stage** [GPHHA20]. **Operator** [AKM23, CGR20, EW21, HJHUT20, KV22, LWWW22, MS23]. **Operators** [EG23, FP20, FH24, GNS20, GNÖ23, Kar21, LR20, LWZ20, LWX24, LRK22, WM23]. **Optimal** [AP21b, ACL20, AGS21, BW24, BPW23, BHYZ23, BDG23, CC23, CSWY23, CCW22, CN21, CM21, CP23, CLR23, CDD$^+$20, CDW24, DH21, FLO20, GS23, GO21, HZ20, HG22, HJHUT20, KRS$^+$21, LSTY21, LS24, MSD22, MU22, MST22, MG23, MSS20, Otá22, ST22, WS23, WSH20, XLZZ24, ZW20b]. **Optimal-Order** [MSS20, ZW20b]. **Optimality** [CSSS23, GFSZ20, KSG23, Otá22]. **Optimization** [CAGD22, GZ21, GLS23, HW21, LWY23,

LYC23, Pap22, Par20, SZ21a]. **Optimized** [BJMO22, DH21, DNT22]. **Options** [DLZ20]. **Order** [AF21, AB24, AXSZ22, ARSY20, AK20b, AH21, BL23, BKSS24, BG20, BDE21, BDE23, CH22a, CSZ24, CM21, CGN24, CHH23, CG24, CDW24, DIL+20, DRV21, DE22, DHM23, lDzSW22, DWW22, ER20, ER21, EW21, EG23, EG22, FR21, FdRS24, FHK22, GvR24, GS22, GAJN23, Gaw20, GNS20, Gla20, GGHS22, GMP22, HKYY21, Han23, HS21, HS23, KS20, KLS20, LET20, LUZ20, LWC23, lLTZ20, lLLL23, LJL+21, MZZ22, Mai21, MNO21, MG23, MSS20, Mus20, NSD22, OS24, Pra20, QZ20, SJ21, SC23b, SR20, Sun21, WK23, WYZ24, XSZ20, ZW22, Zha23a, ZW20a, ZW20b, ZDMZ20, ALW21, CT21, DE20, FLM21, Li21, WZ20]. **Oriented** [VL23]. **Orthogonal** [CS23, GO20, KRS+21, LS20b, NR21, Xia21]. **Orthogonalization** [CCW21]. **Oscillation** [LLS21]. **Oscillation-free** [LLS21]. **Oscillator** [CHJS21]. **Oscillatory** [AB24, WZ23]. **Oseen** [ABB+21, BGG23, KK20]. **Outer** [BBH22].

P [CCMP24]. **P-** [CCMP24]. **Parabolic** [BR20b, BW20, BJMO22, DRV21, GO21, GPHHA20, Guo21, HK20, JKVY23, JZ21a, KM20a, Kop20, LSTY21, LWZ20, LUZ20, LAZ22, LWC23, vWR23]. **Parameter** [BIP22, KR20]. **Parameter-Errors** [BIP22]. **Parametric** [BZ21, BJL23, GHM20, JSZ23, Li20, LLZZ22, Pra20]. **Parametrized** [BG20, RSS22]. **Parareal** [BW20, BJMO22, GW20]. **Part** [AP21a, AP21b, AP22, KR23a, KR23b, KR23c]. **Partial** [EEST22, GHM20, LL22a, MS23, OS24]. **Particle** [FGK23, HLS23, LWXZ22, WZ21]. **Particles** [JLL21]. **Parts** [EW21, GNÖ23, RN20]. **Patch** [LY20]. **PDE** [GO21, GZ21, HW21, LS20b, NT21b, vWR23]. **PDE-Constrained** [HW21, GZ21]. **PDEs** [BW20, CM21, CL20, FHK22, KLMZ21, LL22b, SST+20]. **Penalization** [CDP22]. **Penalty** [BC20, DN24]. **Penalty-Free** [DN24]. **Perfectly** [BK21, JLWZ22, Zha22, Zha23a]. **Perform** [SJ21]. **Peridynamics** [CCMP24]. **Perimeter** [JSZ23]. **Perimeter-Decreasing** [JSZ23]. **Periodic** [AB20, BLX20, HN21, HS21, KKS20, PS21, ST22, YHLR22, Zha22]. **Periodization** [BGNS20]. **Periodization-Based** [BGNS20]. **Perturbed** [CK20, KR23d]. **Petersson** [Pap22]. **Petrov** [BS22, CJZ22, FHN23, MvdZ20]. **Phase** [CGO20, CDCVV21, GKMR22, Kar21, MO21]. **Phase-Field** [Kar21]. **Phenomenon** [FM21]. **Physics** [DMM24]. **Picard** [HK20]. **Piecewise** [WHL21]. **Pitaevskii** [CLLZ24, HP20]. **Pixel** [BH21]. **Pixel-Driven** [BH21]. **Planar** [NT21b, SJ21]. **Planck** [BS22, LLZZ22, WW20]. **Plane** [DN23, IG21]. **Plate** [GS21]. **Plates** [FHN23]. **PML** [LZ23, WYZ20a, YHLR22]. **POD** [GAJN23, KS20, MU22, Rub20]. **POD-ROM** [Rub20]. **POD-ROMs** [GAJN23]. **Point** [BC22, BN23, EPRX20, GVMRBV23]. **Points** [AXSZ22, DH20, DNT22, OP24]. **Pointwise** [BLV20, DRS24, HW22, Han23, KRS+21, KR23d, KM20b, Sch23]. **Poisson** [BCF23, CMZ21, DDO20, GKN21, LY20, PSS22]. **Pollution** [ZRZ23]. **Polygonal** [CDG23, CKP23, GHM20]. **Polygons** [FMMS23]. **Polyhedra** [BLV20]. **Polyhedral** [CDG23]. **Polymer** [BNY23]. **Polynomial** [AP20, FLO20, GGPS21, NT21a, PS24]. **Polynomial-Degree-Robust** [GGPS21]. **Polynomials** [DH20, GO20]. **Polytopal** [YZ20]. **Population** [JZ21b]. **Poroelasticity** [BFS23, GVMRBV23]. **Porous** [DL20a, FA20, FM21, Sun21, ZSH20, ZRZ23].

Posed [GS22, GB20]. **Posedness** [FMR22, ZSH20]. **Positive** [CLL24, GPR20, IKM22, WJS23]. **Positivity** [FHW21, HLTW21, Kar21]. **Positivity-Preserving** [FHW21, HLTW21]. **Posteriori** [BW22, BBH22, CDG23, CGN24, CFV22, CFV23, CFV24, CGP20, DRV21, DMS21, Gal21, GGPS21, KK20, KR23d, KM20b, WL20, dVCN+23]. **Potential** [BCY21, BW24, ZZZ22b]. **Preconditioned** [LX23, LWX24]. **Preconditioner** [Hu21, Hu23, ST22, TWZZ23]. **Preconditioners** [AKM23]. **Preconditioning** [AP22, HJHUT20, MST22]. **Preintegration** [GKS23, LO23]. **Presence** [CRR24]. **Preservation** [Ohs23]. **Preserving** [BZ21, BPS22, CLL24, CWW24, CHJS21, CS22b, Col23, CDW24, DHS24, EHK24, EG23, FHW21, GV20, GGHS22, GPR20, HLTW21, IKM22, JSZ23, JZ21b, lLTZ20, LWXZ20, MQ23, PR22, SX20b, WL23, WB21]. **Pressure** [ABB+21, KR23c, KS20, LR20, SR20]. **Pressure-Robust** [ABB+21, LR20]. **Primal** [CWW24, WW20]. **Primal-Dual** [WW20]. **Principle** [lLTZ20, MQ23]. **Principles** [CHJS21]. **Priori** [CP23, FGP21, MS20]. **Probabilistic** [YZZ20, YZDCNC23]. **Probabilities** [HAST22, WLPU21]. **Problem** [BLY21, BLV20, BGJ22, BHYZ23, BDE23, CGO20, CK20, CFV23, CMZ21, CLLZ24, CGP20, CRR24, DH21, DN24, DMS21, DE22, DDO20, GKN21, HP20, HW21, KM20a, LR20, Pap22, SC23a, Spr24, WL20, WHL21, vWR23]. **Problems** [ALOS23, ACL20, AHW23, ACZ24, AJH23, BIP22, BC22, BJMO22, CC23, CT21, CGN24, CZZ22, CAS23, CLR23, CS22c, DH21, DFFS22, DRV21, DHM23, GW20, GGPS21, GPHHA20, GB20, GMP22, Guo21, Hal21, Hal22, HMO22, HL23, HY22, HT20, Hu23, HPBL21, JLM22, JZ21a, KVM22, LSTY21, LX23, MS21, Mai21, MU22, MST20, Mu20, MvdZ20, NH20, Pra20, RK20, SWW22, TWZZ23, WL23, WYZ20a, WX20, WLF23, Zha22, Zha23a, ZCPZ21]. **Procedure** [BPV20]. **Process** [PSS22]. **Processes** [BJ22, KYB23]. **Progressive** [ARSY20]. **Projection** [AGS21, Avi23, DST21, DRS24, NRY22, Rub20, Xia21]. **Projection-Based** [Rub20]. **Projection-Free** [NRY22]. **Proof** [EPRX20, HQY21]. **Propagation** [GW20, JK22]. **Proper** [KRS+21, LS20b, NR21]. **Properties** [GFSZ20, GGHS22, HHM+20]. **Property** [CSSS23, PCQL21, dVCN+23]. **Provably** [WJS23]. **Proximal** [BC20]. **Pseudo** [AH21]. **Pseudo-Mass** [AH21]. **Pseudoinverse** [EW21].

Quadratic [BIP22, CGN24, Ohs23]. **Quadratically** [EPRX20]. **Quadrature** [Gla20, GHM20, Huy22, KSG23, LM22a, SJ21, SC23b, WM23]. **Quantification** [DE24, KKS20]. **Quantum** [FV23]. **Quantum-Classical** [FV23]. **Quasi** [BPW23, GFSZ20, GKS23, GSM24, HZW23, IG21, KM20a, LYC23, ST22]. **Quasi-Graded** [KM20a]. **Quasi-Interpolation** [GFSZ20]. **Quasi-Linear** [LYC23]. **Quasi-Monte** [GKS23, GSM24, HZW23]. **Quasi-Optimal** [BPW23, ST22]. **Quasi-Trefftz** [IG21]. **Quasilinear** [DH22, GMP22]. **Quasilinearization** [WJS23]. **Quasiperiodic** [JLZ24]. **Quotients** [KRS+21].

Radial [Hal21, Hal22, HO24]. **Radiation** [GPR20]. **Radiative** [GP22, GV20, LWY23]. **Radon** [BH21]. **Random** [BLX20, CCW22, JLL21, KKS20, LWXZ20, PSS22, SX20a, SSZ23]. **Randomized** [HZW23]. **Rank** [BCKS21, CLS23, DEL21, EHK24, GLS23].

Rank-1 [GLS23]. **Rank-Adaptive** [CLS23]. **Rapidly** [MO21]. **Rare** [WLPU21]. **Rate** [AY20, BN23, BO20, BCT21, BDG23, EPRX20, HZW23, MS20, WS23]. **Rate-Independent** [MS20]. **Rates** [BR20a, CN21, CM21, CP23, GB20, KR23b, KR23c, LPW24, WSH20, Xia21]. **Rational** [BCKS21, HHT23, Pra20]. **Reaction** [AHW23, AY20, CK20, FGK23, HZ20, KR23d, LWWW22, MST22, Mus20]. **Real** [ZDMZ20]. **Reciprocal** [NT21b]. **Reciprocal-Log** [NT21b]. **Reconstructed** [LY20]. **Reconstruction** [BdBEO21, CFV23, LR20]. **Recovery** [KS20, PU22]. **Rectangular** [CJZ22]. **Rectifier** [AN21]. **Reduced** [AFB+21, CDD+20, DIL+20, KS20, MG23]. **Reduced-Order** [KS20, MG23]. **Reducing** [ALOS23]. **Reduction** [AHW23, BG20, Pra20]. **Regge** [Gaw20]. **Regime** [BCY21, CS22a]. **Regression** [BC20]. **Regular** [Hu21]. **Regularities** [Xia21]. **Regularity** [AM22, BW24, CS22a, HW22, HZ20, Kam21, LMS22, NWZ22, RS21b]. **Regularization** [CST20, GFSZ20, GB20, KR20, LSTY21, WSH20]. **Regularized** [CZZ22, FGK23, HL23]. **Reissner** [FHN23, GS21]. **Relativistic** [HLS23]. **Relaxation** [BJMO22, Zou23]. **Relaxed** [BDS23]. **Remap** [VL23]. **Renormalized** [GLW22]. **Reproducing** [LTTF21]. **Residual** [BM22, DMS21, MvdZ20, MRV23]. **Residual-Based** [DMS21]. **Resolution** [HHT23]. **Resonance** [Hal21, Hal22]. **Resonances** [ZL21]. **Response** [Ni21]. **Results** [CS23, Hu23, KV22]. **Retarded** [AB20]. **Revisitation** [EW21]. **Reynolds** [ALOS23, BGG23, Lab20]. **Ribbons** [Bar20]. **Ridge** [HO20]. **Rigorous** [HN21, PCQL21]. **Ritz** [DRS24]. **RKHS** [KN23]. **Robin** [DH21, EH22]. **Robust** [ABB+21, AFB+21, AKM23, CFV23, CHH23, FH24, GGPS21, KK20, LR20, MST22, MPV20, Mu20]. **ROM** [Rub20]. **ROMs** [GAJN23]. **Rotating** [ALW21, MO21]. **Rotation** [BFS23]. **Rotation-Based** [BFS23]. **Rough** [DK23, LLMR23, LWZ23]. **Rounding** [MK20]. **Rule** [BHLZ24, KSG23]. **Rules** [ACW21, Gla20, Huy22, KR20]. **Runge** [AXSZ22, BKSS24, GGHS22, OSV23, RK20, SZ20, SWW22, XSZ20].

Saddle [GVMRBV23, LZCZ22, ZZZ22a]. **Saddle-Point** [GVMRBV23]. **Sample** [ABCS24]. **Sample-Wise** [ABCS24]. **Sampling** [BGNS20, HZW23, PU22, SZ21b]. **Satisfying** [FdRS24]. **SAV** [FLM21, JLQ22, LS20a, LWS22]. **SAV-Exponential** [JLQ22]. **Scalar** [AXSZ22, CLR23, Hal21, Hal22, IG21, LZM+20, LLS21, PS20]. **Scale** [BM22, RSS22, WZ23]. **Scaling** [Hal21, Hal22]. **Scattered** [Gla20, LCS24]. **Scattering** [ACL20, BLX20, BLY21, WYZ20a, YHLR22, Zha22, Zha23a]. **Scheme** [AP22, ADBP22, BDS23, BJ22, BD23, CG20, CFF20, CSZ24, DN21, EG22, FV23, FK22, GV20, GWY22, GGC23, HKYY21, Han23, HS23, HLTW21, JZ21b, LS20a, lLTZ20, LWWW22, LMR23, MQ23, MT20, Met21, NSD22, WYZ24, YZZ20, YZDCNC23, YC21, Zou23]. **Schemes** [AF21, AFB+21, ACM24, AGS21, ABBV23, BR20a, BCT21, CSWY23, CCHHK20, CHS20, CS22b, CCMP24, CDW24, DGG20, DE20, lDzSW22, HS21, HD24, IKM22, JLQ22, LWS22, LWXZ20, MS20, PS22, SBL22, SZ21b, SX20b, WZ20, WZ21, WZZ22, WJS23, ZEG20]. **Schrödinger** [BMS24, BW24, FLM21, GM22, LAZ22, ST22, WYZ24, Zou23]. **Schur** [SC23a]. **Schwarz** [BJMO22, DH21, Par20, RS21a, YDS21]. **Science** [GP22]. **Scott** [NO21]. **Scrambled** [OP24]. **Screening** [RS21a]. **Screens** [HJHUT20]. **SDEs** [FdRS24, PSS22]. **Secant** [BM22]. **Second**

[AB24, ALW21, CH22a, CM21, lDzSW22, DWW22, ER20, ER21, EW21, EG22, FR21, FHK22, GNS20, HS23, LUZ20, LM22b, lLTZ20, lLLL23, MNO21, Mus20, OS24, QZ20, SR20, WK23, WYZ20b, ZDMZ20]. **Second-Order** [AB24, CH22a, CM21, lDzSW22, ER20, ER21, FR21, FHK22, HS23, LUZ20, lLTZ20, lLLL23, MNO21, Mus20, OS24, QZ20, ZDMZ20, ALW21]. **Segel** [SX20b]. **self** [CM21, LWZ20]. **Semi** [BR20b, CFF20, CS23, LMS22]. **Semi-implicit** [BR20b, LMS22]. **Semi-Infinite** [CS23]. **Semi-Lagrangian** [CFF20]. **Semicoercive** [dDFH23]. **Semiconductor** [DHS24]. **Semidiscrete** [BL23, Li21, QW20]. **Semiexplicit** [Ohs23]. **Semigroups** [Col22]. **Semilinear** [AHW23, BLM21, BW20, CH22a, CGN24, HK20, Kop20, KM20b, LLMR23, MU22, OSV23, Otá22, WZ20, YZDCNC23]. **Seminegative** [SWW22]. **Sequences** [MR21]. **Sequential** [ACM24, BM22, LY20]. **Serre** [ADM17, ADM21]. **Sets** [DL20b, Huy22]. **Setting** [DDO20, GK24]. **Shadowing** [Ni21]. **Shallow** [ALW21]. **Shape** [GZ21]. **Sharp** [BO20, HM22, Kam21]. **Sharper** [BV22]. **Shielding** [HY22]. **Shifted** [DWW22]. **Shigesada** [JZ21b]. **Shortening** [JSZ23, Li20, YC21]. **Sign** [CLR23]. **Sign-Changing** [CLR23]. **Signorini** [BFS20]. **Simplex** [WX20]. **Simplex-Averaged** [WX20]. **Simplicial** [AKNY20]. **Simplified** [MU22]. **Simulation** [Bar20]. **Simulations** [JLY21]. **Sinc** [WZZ22, ADS23]. **Sinc-** [WZZ22]. **sinc-Galerkin** [ADS23]. **Singular** [BHLZ24, BR20b, CGR20, DDO20, FHK22, SC23b, WM23]. **Singularities** [HHT23, HX20]. **Singularity** [BHLZ24]. **Singularly** [CK20, KR23d]. **Six** [ACYZ21]. **Six-Step** [ACYZ21]. **Size** [ACL20]. **Skeletal** [CZZ20]. **Slab** [ZL21]. **Slits** [ZL21]. **Slow** [DL20a]. **Smallest** [Kam21]. **Smooth** [AXSZ22]. **Smoothing** [BC20]. **Smoothness** [AN21, KSG23]. **Snapshots** [GAJN23, MU22]. **Sobolev** [CLLZ24, DST21, HP20]. **Solution** [CL21, FP20, GAJN23, HMO22, LL22a, LS20b, SW23]. **Solutions** [AXSZ22, AB20, CZZ22, DMM24, FL21, Kop20, LS22, LM22b, MSS20, SX20a, WS23]. **Solver** [MPV20, YHLR22]. **Solvers** [LRK22, NT21b]. **Solving** [BM22, Guo21, LZ23, MZZ22]. **Some** [SZ21a, WZ21]. **Sonic** [AXSZ22]. **Source** [CZZ22, SC23b]. **Sources** [DDO20, GKN21, ZWC20]. **Space** [BPS22, BHL21, BDE23, DRV21, GM22, GMMP24, GMSZ22, HKYY21, JKVY23, JLM22, LSTY21, Led21, LY20, LS24, WL23, ZW20a, ZW20b]. **Space-fractional** [ZW20b]. **Space-Time** [BPS22, BHL21, BDE23, DRV21, GM22, GMMP24, JKVY23, LSTY21, LS24, ZW20a]. **Spaces** [FH24, GNÖ23, Guo21, KN23, MvdZ20, WSH20]. **Sparse** [FP20, GO20, KVM22]. **Spatially** [FM21, HQY21]. **SPDEs** [BDG23]. **Species** [JLL21]. **Spectral** [AB24, ACZ24, BCF23, CLL24, DWW22, GB20, GO20, HZ20, HQY21, LAZ22, LLMR23, MSD22, MS21, PR22, SST$^+$20, Wan23, WR21, Xia21, YDS21, Zha23b, ZQ23]. **Spectral-Galerkin** [SST$^+$20]. **Spectrally** [EG23]. **Spectrum** [GNS20]. **Speeds** [LWXZ22]. **Sphere** [bLWZ21]. **Spline** [LL22a]. **Splines** [HHM$^+$20]. **Splitting** [BCY21, BCF22, CSSS23, FV23, FdRS24, HS23, LWWW22, LMR23, WZ21]. **Squares** [CCL23, DH20, GS22, HS20, LY20, QZ20, Sto20]. **Stability** [AP21a, BK21, CGO20, DST21, GGHS22, HM22, HQY21, HS21, HS23, IKM22, KV22, LWS22, LlL22, PCQL21, Pra20, QW23, RK20, Sch23, SBL22, SWW22, WL23, YZZ20, ZDMZ20, AK20a]. **Stability-enhanced** [PCQL21].

Stability-Preserving [WL23]. **Stabilization** [ABB+21, AHV22, BPV20, CHW24, LUZ20, dVCN+23]. **Stabilization-Free** [dVCN+23]. **Stabilized** [NR21, Rub20]. **Stabilizer** [YZ20]. **Stable** [AP20, BPW23, BS22, CSWY23, DWW22, EHK24, FHW21, Gla20, GWY22, HLTW21, LWC23, lLTZ20, LMN23, MQ23, PS24]. **Stage** [BKSS24, GPHHA20]. **Staggered** [MT20, PS22, ZCPZ21]. **State** [AHW23, CDD+20]. **Static** [DS20]. **Stationary** [GHLY23, OS24]. **Statistical** [GB20, JLM22]. **Steady** [AHW23, FLH23]. **Steady-State** [AHW23]. **Stefan** [CRR24, HLTW21]. **Stein** [JLM22]. **Stekloff** [GSW21]. **stencil** [FL21]. **Stencils** [GvR24]. **Step** [ACYZ21, BGG23, LlL22, lLLL23, QWL22]. **Stepping** [WZ20, WLF23]. **Steps** [lLTZ20]. **Stochastic** [ACM24, ABCS24, BW22, BLM21, BSWW22, BW20, BHL21, CHJS21, Che21, CZZ22, CHS21, EEST22, FGK23, FGP21, GFSZ20, HHL24, HPBL21, KYB23, KLS20, LWXZ20, SW23, WZZ22]. **Stokes** [AP21a, AP21b, AP22, BLV20, BDL20, CGO20, CSWY23, DN24, DGL20, FHW21, FLH23, GS22, GANT20, GMSZ22, GLS20, Han23, HZZ22, HS21, HS23, JLY21, KR23a, KR23b, KR23c, KS20, LR20, Led21, LS20a, LMS22, LMR23, PS22, SSZ23, SR20, Sto20, WHL21, ZCPZ21, dDFH23]. **Strain** [CHH23]. **Strang** [CSSS23]. **Stratification** [CG24]. **Stratified** [CC23, GP22]. **Stream** [Led21]. **Stress** [AKNY20, GVMRBV23, GLS20]. **Stress-Dependent** [GVMRBV23]. **Strong** [BLM21, BSWW22, CHS21, GGHS22, NSD22, SBL22, WZ21]. **Structure** [BLX20, BZ21, BKSS24, BPS22, CWW24, CS22b, FK22, JZ21b, lLLL23, LWXZ20]. **Structure-Preserving** [BZ21, JZ21b, LWXZ20]. **Structured** [CCW21, GLS23]. **Structures** [HN21]. **Study** [ZRZ23]. **Subdiffusion** [LM22a, LLMR23, QW23, SC23b, WZ20]. **Subject** [BDE21]. **Submanifolds** [SZ21b]. **Suboptimality** [KSG23]. **Subspace** [LX23, LO23]. **Subwavelength** [ZL21]. **Sum** [DH20, MK20]. **Sum-Up** [MK20]. **Summation** [EW21, GNÖ23, RN20]. **Summation-by-Parts** [EW21, GNÖ23, RN20]. **Sup** [Pra20, Gal21]. **Supercell** [BO20]. **Superconductivity** [GS23]. **Superconvergence** [CJZ22, CHSZ23]. **Superconvergent** [MRV23]. **Supercooled** [CRR24]. **Superlinear** [AKM23]. **Superposed** [ZSH20, ZRZ23]. **Supremizer** [KS20]. **Surface** [BZ21, BJL23, BDL20, CCL23, DN24, TWZZ23, YHLR22, Zha23a]. **Surfaces** [BL23, DN21, Li21, RSS22, WM23, Zha22]. **Swapping** [BHLZ24]. **Swept** [VL23]. **Symmetric** [CH22b, SC23a]. **Symmetrized** [BJL23, LWZ20]. **Symmetry** [GLS20]. **Symplectic** [CHJS21, Che21, Ohs23]. **System** [ADBP22, BCF23, CSWY23, CG20, GS22, HLM22, HLTW21, JZ21b, KR23a, KR23b, KR23c, KN20, LS22, LYC23, LWWW22, LMR23, MCL20, QWL22, QZ20, WZ23]. **Systems** [BM22, BPS22, BHL21, CHKL22, CSZ24, Col23, JLZ24, LUZ20, MK20, Ohs23, SZ20, SBL22].

Tangential [DN24]. **Taylor** [GS21]. **Tchebycheffian** [HHM+20]. **Technique** [ACYZ21]. **Temporal** [lDzSW22, GAJN23, KV22, MQ23]. **Tensor** [CLW21, CLS23, GWY22]. **Tensors** [CH22b]. **Teramoto** [JZ21b]. **Term** [SC23b]. **Terminal** [ZZZ22b]. **Test** [FH24]. **Tetrahedra** [AK20b, ER21]. **Their** [CZZ22, ZWC20, ACM24]. **Theorem** [VL23]. **Theorems** [SJ21]. **Theoretical** [XZ22]. **Theory** [LS20b]. **Thermodynamically** [BD23]. **Thin** [FM21]. **Those** [EPRX20]. **Three** [BLY21,

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