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1 [ATCS20, CGL+23, GBLT20, MPSP22, PBVC22, RG22, SMY22, SLOZ21a, UY22, YU22]. 2 [An21a, AZV23, Bal21, BTZ22, BDWC23, BJL21, CDT22a, CG23, DT21a, FTPB23, GGCvR22, GPL22, DCC+24, GCSH22, ID20, IMJ20, JGvR23, JRY+20, KSTT22, KCS21, LDLW21, Mar23, MSIM21, NFL+21a, Oru21, RG22, RV22, SB23, SLOZ21a, WDS22, WL24b, WZBV20]. 25 [ID20]. 2×2 [MN21]. 3 [AF23, BGH20, BAK22, BRZ+23, BGS22a, BTCV22, BEP+20, BP21, BLM22, CHMP24, CDL21, CG23, CFS23, CRF+21, CIMG21, CNCM21, Da22, DT21a, DFW22, GTDB22, GDAP20, GP23, GDB24, HZTN21, HLB20, HBF22, HNF+21, HP21b, KSTT22, KLZ23, KKL24, LPS21, LP20a, LLD20, LZH23, LL24a, LLCK20, Mar24, MFG22, MPSP22, MSIM21, ML20, MRZ21, NFL+21a, OLS21, Oru21, PWH+22, PTT22, PTT24, PCD23, SRD20, SLOZ21b, TWY22a, TCW24, TBM22, Tlu22, TNF23, WCZ+20, WZC21, WY22a, WY22b, WGU+22, WK21b, XBRL21, ZCY24, ZF20, dLF23]. 4 [CMH20, PT23a]. 6th [VPDD22]. ^{0} [SHL+20]. ^{2} [KBCH20]. th [BMBM24]. $_{sgs}$

[CPX21]. A [RC20b]. α [BABD21, TT22a]. B [Ume23]. C [SHL+20]. C^1 [Bar21a]. d [KKA24]. δ [FGZ20]. $\mathrm{div} B = 0$ [GGB22]. E [Ume23]. ϵ [LJK+24, YcD23]. f [LMHL21]. G [PHHJ22]. H [PT23b, WWJ24]. J [HLB20]. K [CPX21, Ian20, ZLW23, CPGD20, GLSZ22, LJK+24, SEG22, YcD23]. k_{eff} [PB22]. L^2 [YWClL22]. l_1 [DD22a]. L_p [MN22]. M [HLA21]. M_1 [BTGA22]. $\mathbf{R}^3$ [YLK20]. μ [CCE+22, YYJ+23]. $\mu(I)$ [BFNK+21, LY20a]. N [HT21b, HLA21, HJ24a, KKA24, MM24, RIC+22, UHZ+24]. $N \log N$ [RMA20]. $O(N)$ [RE20]. ω [YcD23]. p [ARTB20, LWR20, NMR+22, WGY20, XSC21]. P_N [XJS21]. Φ [RC20b, HLB20, vdWvBAA24]. Q [SVW21, XG22, ZLW23]. S [PBJ+22, MMKM24]. S_N [YOH+20, SHM23b]. Σ [NKA+20]. t [KUO23]. τ [AGR23]. Υ [NKA+20].

-adaptation [WWJ24]. **-adaptive** [NMR+22, WGY20, XSC21]. **-adaptivity** [ARTB20]. **-Algorithm** [Ian20]. **-body** [KKA24, RIC+22, UHZ+24]. **-component** [HLA21]. **-continuous** [PHHJ22]. [**?**]cross-Umeda:2023:NIR. **-CVT** [MN22]. **-D** [WZC21, GDAP20, ID20, KLZ23, NFL+21a, Oru21, PBVC22, UY22, WCZ+20, WK21b, YU22]. **-dimensional** [Bal21]. **-dimensions** [KKA24]. **-divergence** [vdWvBAA24]. **-exact** [SEG22]. **-frame** [PBJ+22]. **-leap** [AGR23]. **-matrices** [PT23b]. **-mode** [CCE+22]. **-model** [KUO23]. **-nearest-neighbors** [GLSZ22]. **-order** [BMBM24]. **-phase** [HT21b, HJ24a, MM24]. [**?**]phase-Huang:2021:CCM. **-point** [ID20]. **-regularization** [DD22a]. **-rheology** [YYJ+23]. **-space** [ZLW23]. **-tensor** [SVW21]. **-TMI** [CPGD20]. **-TMI/ALE** [CPGD20]. **-version** [MMKM24]. **-VSPH** [FGZ20]. **-weighted** [LWR20].

İzmir [MMSW22].

1 [Ano20a, Ano20b, Ano20c, Ano20d, Ano20e, Ano20g, Ano20f, Ano20h, Ano20i, Ano20j, Ano20k, Ano20l, Ano21a, Ano21b, Ano21c, Ano21d, Ano21e, Ano21g, Ano21f, Ano21h, Ano21i, Ano21j, Ano21k, Ano21l, Ano22a, Ano22b, Ano22c, Ano22d, Ano22e, Ano22g, Ano22f, Ano22h, Ano22i, Ano22j, Ano22k, Ano22l, Ano23a, Ano23b, Ano23c, Ano23d, Ano23e, Ano23f, Ano23h, Ano23i, Ano23j, Ano23k, Ano23l, Ano24a, Ano24b, Ano24c, Ano24d, Ano24f, Den23, SLOZ21a, WMTQ20]. **15** [Ano20m, Ano20n, Ano20o, Ano20p, Ano20q, Ano20s, Ano20r, Ano20t, Ano20u, Ano20v, Ano20w, Ano21m, Ano21n, Ano21o, Ano21p, Ano21q, Ano21s, Ano21r, Ano21t, Ano21u, Ano21v, Ano21w, Ano21x, Ano22m, Ano22n, Ano22o, Ano22p, Ano22q, Ano22s, Ano22r, Ano22t, Ano22v, Ano22w, Ano22x, Ano23m, Ano23n, Ano23o, Ano23p, Ano23s, Ano23r, Ano23t, Ano23u, Ano23v, Ano23w, Ano23x, Ano24g, Ano24h, Ano24i, Ano24j, Ano24k, Ano24l]. **1d** [KSHJ20, BGS22a]. **1d-3d** [KSHJ20].

2 [Abg20, KSST21, SLOZ21b]. **2020** [Ano20a, Ano20m, Ano20b, Ano20n, Ano20c, Ano20o, Ano20d, Ano20p, Ano20e, Ano20q, Ano20g, Ano20s, Ano20f, Ano20r, Ano20h, Ano20t, Ano20i, Ano20u, Ano20j, Ano20v, Ano20k, Ano20w, Ano20l]. **2021** [Ano21a, Ano21m, Ano21b, Ano21n, Ano21c, Ano21o, Ano21d, Ano21p, Ano21e, Ano21q, Ano21g, Ano21s, Ano21f, Ano21r, Ano21h, Ano21t, Ano21i, Ano21u, Ano21j, Ano21v, Ano21k, Ano21w, Ano21l, Ano21x]. **2022** [Ano22a, Ano22m, Ano22b, Ano22n, Ano22c, Ano22o, Ano22d, Ano22p, Ano22e, Ano22q, Ano22g, Ano22s, Ano22f, Ano22r, Ano22h, Ano22t, Ano22i, Ano22j, Ano22v, Ano22k, Ano22w, Ano22l, Ano22x]. **2023** [Ano23a, Ano23m, Ano23b, Ano23n, Ano23c, Ano23o, Ano23d, Ano23p, Ano23e, Ano23s, Ano23f, Ano23r, Ano23h, Ano23t, Ano23i, Ano23u, Ano23j, Ano23v, Ano23k, Ano23w, Ano23l, Ano23x]. **2024** [Ano24a, Ano24g, Ano24b, Ano24h, Ano24c, Ano24i, Ano24d, Ano24j, Ano24k, Ano24f, Ano24l]. **265** [HPA22]. **2P** [CDT22a]. **2V** [ATCS20].

343 [STEK22]. **372** [GRT21]. **376** [BLL20]. **381** [SZN20]. **388** [EFO20]. **390** [SYOS21]. **395** [Pan20b]. **3d** [DFG+23, KSHJ20, MND+20]. **3d-3v** [DFG+23]. **3v** [DFG+23].

4 [BMBM24]. **407** [ACML20a]. **426** [MM22]. **434** [YGJ21a]. **455** [LMFV22a, SS22b]. **461** [ZC22b]. **489** [ZZW24b]. **4th** [BBO+22, Kar22].

a-FSI [BCPV21]. **A-PINN** [YNDH22]. **a-posteriori** [JO22, MLPR24, RHSK21]. **A-priori** [GZ21]. **A-WENO** [CKN22b]. **ab-initio** [PBO20]. **ablation** [FCBM22]. **Abramowitz** [GJL20]. **Absolutely** [LZZ21a]. **absorbing** [LCF+23, MGA20, PJA22, PM22a, VBA22, BRT22]. **Absorption** [KAC22, MF24]. **absorptive** [CCER20]. **accelerate** [JKK20, SPdS+21, WPBS22, WZ23a, XF21c]. **Accelerated** [JTT23, KBH+22, VN21, WCA+20, WLPK20, BB21, CORJ+23, CTG23, GKD23, HA21, HM21b, LMZ23, LCP21b, MHWY21, OSZ21, RKA+23, RFZ22, RZ23, VGK21, WCP23]. **Accelerating** [BZ23, CDK+23, Ein24, NPL+24, WLZ+24b, dLF23, AP23, HZB+21, HXX23, SES21, XDCF21]. **acceleration** [ARC22, FZ20b, JLC21, KV23b, KWF20, LZZW24, MH22a, Puk20]. **accelerators** [BD20b]. **acceptance** [CSASS21]. **Accessibility** [ABBG23]. **accessible** [WL22]. **account** [CNB+23]. **accounting** [KBG23]. **accuracies** [ZLW22b]. **Accuracy** [ALCZ20, BTCV22, KD20, ATF23, AMGCL21, BBO+22, BW23, BSV22, CMGGS23, CZZ21, GDL23, GYC+23, HVB21, ID20, IK23b, JZZ22, KD21b, LGZ21, Li20, LGL23a, Nis20c, Nis22b, Nis23, PH21, PV22, PO23, QWZ+23, RGSR21, Sem21, SAS+21, SSS22, VPDD22, WMTQ20, WZ21a, YH22a, YZZ23, ZHY22, ZZ24, ZGK+22, aZWY23, vLN21, PTZ+24].

Accuracy-Conserving [PTZ+24]. **accuracy-uncertainty** [BBO+22]. **Accurate** [BFM21, CNC21, DS22b, Gar21, Jai22a, LCN20, PB20a, PJA22, Sin21, SAH+22, TJ22, USRH20, BBH+20, BMBM24, CL21, CY23, CEMO21, CMR21, CKT21, CFM22, CY22b, CK21, CKPP24, CNCM21, DMN22, DGGL22, DNP23, DW20a, DT20, DT21b, DT22c, EDEV23, GJF20, HTLY23, HSS21, IMJ20, JGM+22, KCWZ22, KG20, KLB23, KB23, KK21, LS22, LL23a, LD20a, LWL+23, LZC+20, LL21d, MWS24, MR23b, NP23, NR23, PP22b, PBN+21, PM22a, PAA23, RS20c, SRV21, Ste22, SZ21, SLOZ21b, SLOZ21a, Toh23, TWF+20, WRBK20, XBH+22, YM21, Yan21c, YGL20, YL24a, ZDT23, ZCY24, vHP22, vdEW24]. **Accurately** [LDM+21]. **Achieving** [Nis22b, vLN21]. **acidization** [YZK23]. **acoustic** [ALM23, An21a, AL20, BGH20, CAG20, CHG21, CYS23, DLMZ22, EK21, FS23b, GAC20, HCdM23, JHY21, LPP+20, LQXM22, LTDC23, MMSW22, MGA20, MD20b, NPD20, OP20, SPAC23, TBG20, ZJSX22, ZHRB23, vHG+22, van22]. **acoustics** [CE21, PCD23]. **acousto** [AL21]. **acousto-elastic** [AL21]. **across** [Far20, TLB20]. **acting** [LR23]. **action** [HZY22, Wan22]. **activation** [GGN+20, JKK20]. **Active** [AK21, DSS+22, GW23, ZLW+21, BPVE24, CHCC23, CCMC20, FGF22, KCK21, MWS24, STWK21, TBST20, WSS22, XBH+22, XCL22]. **Active-** [ZLW+21]. **active-subspace** [XCL22]. **actual** [LLSD20]. **ad** [LD22]. **ad-hoc** [LD22]. **adaptability** [WZL21]. **adaptation** [AF21, AFP22, CHG+20, CLS24b, FCTZ24, FC21, GD20, HW20b, LRVF22, MN22, DM23b, QZZ+24, RMD20, RHC+24, WWJ24]. **adaptative** [JDB+23]. **adapted** [CC20, MA21, YI23]. **adapter** [LH20]. **Adaptive** [BBCD22, CRF+21, Der23, DMRB20, FLW+23, JKK20, KVH20, Lep21, LLY+23, NFPSSA24, PMSP23, SZN19, SZN20, SHS+20, SEG22, SLOZ21b, SLOZ21a, TWL22, Tur24, XHS23, ZZZ22, vdBSB20, AdS22, Abg20, ADP22, APR22, AMM23, AR20, BCWD21, BGFB20, BBPR21, BAK22, BGGM22, BDP23a, BB20c, BFST23, CCL22, CAF+22, CMP+21, CMPR23, CW22b, CX22a, CDM+23, DVS22, DT22a, DS23b, DT21a, DT22c, DE22, DW22, FGB+20, FLW20a, FMS21, FCL23, FWG22, FP23, GCVI22, GJLD20, GSW21, GQF23, GRT18, GRT21, GHTC21, HDML23, HLPX24, HXX23, HW23, IW23, JGM+22, Jen20, JLXZ24, KLS+20, KSI+23, KLW24, KRL21, KHM+22, KJ22, LBSR20, LSS20, LCR22, LSZ+23a, LLTY23, Lin21, LWZ23, LZ24b, LCN20, LCN24, LZC+23, MLL+24, MBN23, MZC+22, Mis23, MWZ23, NGZD22, NVPP23, NMR+21, NMR+22, PLL+21, PWB24, PBF24, RS23a, RRN23]. **adaptive** [RBBD22, RAZA21, SL22a, SAB+24, SGPW21, Sha23, SP22, SC22c, SP23, TL20, TCK+22, TWY23, TJC21, TCR+20, WGY20, WDL21b, WLS22, WLZ+24b, WZBV20, WBH+24, XSC21, XLXC20, YWN20, YJK21, YKLL21, YZH+23, ZXBS22, ZLG+23, ZDT23, ZJQ+24, ZSY24, ZG24, ZXD22, dSLdA+22, vHP22]. **adaptive-mobility** [LZC+23]. **adaptive-order** [DVS22]. **adaptively** [HD23, MSWH22, STC+21]. **adaptivity** [ARTB20, BTT24, DSSSP20, DBSS+20, HSW21, LBC23, LKEM21, LLW20a, PDM23, RMJ23]. **adding** [LD20b]. **Additive**

[ARB+21, HHSZ24, LC23, SMV22, SQSS20, SSX22]. **Addressing** [JF24]. **ADER** [BCIT22, BLM22, CPGD21, LLQ+24, TCR+20, WGU+22, vGAtTBI23, vGAtTBI24]. **ADER-DG** [WGU+22]. **adhesive** [XLHB22]. **ADI** [DLP21]. **adiabatic** [FN22, GLK20, PA20]. **adjacent** [CS24a]. **Adjoint** [AHG21, CSY21, FB23, FLS23, KKS+21c, LAMC24, RMD20, RHR20, SJGC21, YSC23, AMG23a, AS20, BPJ22, CHDB23, CX22a, CX22b, CSdP+22, FH24, GMNY23, KS22a, KR22, LP23b, OY21, PRL22, RB22, SES21, VFBD23]. **Adjoint-based** [FB23, FLS23, LAMC24, RMD20, RHR20, SJGC21, CX22a, CX22b, CSdP+22]. **adjoints** [AFP22]. **adjustable** [DhJV+22, NZRH24]. **adjusted** [GC20b, GAC20, SCdHJ20]. **adjusting** [HRY+22]. **adjustment** [FFRT+21]. **ADLGM** [AMM23]. **adsorption** [Cie20]. **Advanced** [EFS+20, FSM+22, FGD+21, XBRL21]. **advection** [ADJ23, ARR21, BFP21, BFG22, CCL21, CC24, CZ22a, CBY23, DGW20, FMB20, FPT23, GTDB22, GHY22b, DPI24, LCG22a, LCWH23, LY23, LT20c, MMZR21, MTB22, MT21, SWF21, SK23b, SFGNMGN22, XMZ+23, vdEW24]. **advection-diffusion** [BFG22, FPT23, GTDB22, LCWH23, MTB22, SWF21]. **advection-diffusion-reaction** [ARR21, BFP21]. **advection-dispersion** [DGW20]. **advection-dominance** [ARR21]. **advection-dominated** [LT20c, SFGNMGN22]. **advection-reaction** [CCL21]. **Adversarial** [HGSK22, GN22, OWHN22, WKA+20, ZBYZ20]. **AEPIC** [STC+21]. **aeroacoustic** [SMLM23, WRBK20]. **aeroacoustics** [AWB+21]. **Aerodynamic** [AMG23a, HF23, LE21b, MM21a, Nis22a, SMLM23]. **aerodynamics** [ABOS22, GFJ+20, STI24]. **aeronautics** [AF21]. **aerospace** [AF21]. **AFC** [CMS+22b]. **Affine** [DSS20]. **age** [APR22]. **age-structured** [APR22]. **agent** [DMK+24, PRKS23]. **agent-based** [PRKS23]. **Agglomeration** [PP22a, KG20]. **Agglomeration-based** [PP22a]. **agglomerative** [VGG23]. **aggregate** [AK21, LZJ+24, MRG21]. **aggregation** [HST22a, KOM+22, dZBDMC24]. **aggregation-fragmentation** [KOM+22]. **aid** [JO22, VK24]. **aided** [NT23]. **AIIM** [TCW24]. **AIMs** [KEML+24]. **air** [HMMO20, NTSM20]. **Alderney** [BABD21]. **ALE** [AXWF23, AR20, CHL20, CPGD20, GPS20, KKS21b, KSBG20, PZX20, VMO21]. **Alfvén** [Ein24, LMHL21]. **algebra** [LCL22a]. **Algebraic** [GA24, KT24, BSCG22, DPI24, PCB21, WGSX23, dSLdA+22]. **Algorithm** [DY22b, HNF+21, ZD21, AG21, ASVL23, ALF+22, ACDV24, AE20, Bar22, BG21, BL21a, BDP23a, BTKP24, Bre20, CF21, CCY+20, CJLL21, CCN21, CFM22, CC23, CC20, CI21a, CNC21, DEvW20, DGL+22, DGS20, DW20a, DW20b, EOS23, EMP24, Ere22, FZS+21, FVM22, FVM23, FSB+20, FZQ22b, GQF23, GAB+22a, GMMS22, GW20, tH22, HGH20, HX23, JGM+22, JL21b, JCM24, KBB+20, KKS21b, KKA24, KG20, KWCS23, Kus20, LGV20, LG20, LH21, LZX+22b, LAT+22, LXZ23, LFT+20, LLOL24, LCC+23b, MSC+20, MNG+22, MCVF22, MSWH22, MYL21, MHY20, MRdB21, MGT+21, ND20, Nic22, NZXM21, OGG20, DAGL23, PM21b, PK20, PGS22, PJBB20, PO23,

RW22, SGM21, SM24, TCK+22, TS20, Tow20, TWY+22b, Vev21, WLZ24a, WLZP21, XMY22, XCZ20, YZZZ22, ZZC20, ZCY24, vdEW24, Ian20]. **Algorithmic** [CHDB23, CA24, HHN+21]. **Algorithms** [CEL+20, Far20, FBCD22, LJ22, MBK21, PLM+23b, BTK22, BFS23, CM20, DLMZ22, DC22b, EFS+20, EPV21, EASA23, EHL+20, HLL23, HXZ23, JLY23, LCG23, LLLO21, LLCK20, MD20b, PBN+21, QZHD23, Sab20, SPdS+21, SHJ+23, SC22c, TRC22, Tso23, WK20, WTX+21, WLH21, WY22a, YWLL21, YL21b, ZC22a, PDPK20]. **aliasing** [KK22b]. **aligned** [BV20, DH20, FAHA20, WWN+22]. **alignment** [BB20b, KH20]. **alkane** [SS23]. **all-at-once** [lLNZ21]. **all-hexahedral** [KRL21]. **all-Mach** [KD21a, SLF23a]. **all-quadrilateral** [KRL21]. **all-scale** [PS22c]. **all-speed** [Bar21b]. **Allen** [CLS20b, GTWJ24, HLA20b, LLCJ23, LQX22b, LQX22a, lLTZ20, NS22, SHM+23a]. **ALLIANCE** [GT23]. **Allmaras** [LMFV22a, LMFV22b]. **allocation** [PWB24]. **Allowing** [PGP+23, BCC+20, LOL22]. **alloy** [BPG23, JTK22]. **almost** [MLPR24]. **alteration** [KNLB21]. **alternating** [AR22]. **alternative** [FM20, RRPSS21, ZG21]. **aluminum** [KAC22]. **ambiguous** [ESJ23]. **ameliorating** [WH24]. **amorphous** [KS22d]. **Ampère** [CXZ24, CH22, QXYZ23, RBPRST20, ATCS20, LXY23a, LCCL23]. **amplitude** [VEC21]. **AMR** [MA21]. **analog** [Poë22, SH22, YG21]. **Analyses** [LLD+22, NdlLPL21, SFNMF+21]. **Analysis** [ARC22, AWB+20, CFJF23, CLP22, DNO23, DTB20, HLM+20, HCdM23, JKJ20, LZ22a, LCF+23, MVO+22, PRL22, ZP20, ZC23, AHH+24, AHR20, ALL22, BDT21, BGGM22, Bha20, BGSP22, CPX21, CZ22a, CLC24b, CWW20, CWL+23, CHM24, CS22, DCA+22, DGS20, DYGC22, DW20a, EFSH21, FJG+20, FDH+24, FGB+20, FLW20a, FGD+21, FBCD22, GM23b, GCSH22, GZ21, HKJ21, HYQ20, HLXZ21, HP22b, HCL20, HLH21, dMKJ+22, JLY22, JLY23, KP23a, KBCH20, KML23, KFP+22, KLF22, KdMJ+22, KSK21, KCP20, KD21b, LKEM21, LKM22, LJ22, LGMV22, tLjTbZ22, LJZK21, LJK+24, MM21a, MD20c, MMRP22, MFS+22, MFdSS24, NW22, OY21, PCA+23, PLM+23b, QZHD23, RUG20, RWBS21, RRN23, RV20, RC20b, SPdF20, SL22b, SSPV20, SJGC21, SMRW22, SW23, SPGG23, TKK22, TLWM20, TNF23, USRH20, WMTQ20, WZZ23, XZWH22, ZYZ+23, ZB21c, ZZY21, ZB24]. **analysis-based** [CLC24b]. **Analytic** [Lem20, Yin22, ML20, ML24]. **Analytical** [BBB23, Nis22a, DT22b, KEY20, MBBV22]. **analytically** [Che20]. **Analyzing** [YhCdJ+23]. **anatomy** [CC22b]. **aneurysms** [HSXZ21]. **Anger** [LPP+20]. **angle** [CDL21, FZQ22b, HZTN21, HLA22b, LLD20, PH22, ZY20a]. **angles** [CDL21]. **angular** [BR23, DSSSP20, DBSS+20]. **Anisotropic** [ADM+21, CHG+20, CLS24b, HW20b, MN22, RHD+24, ZZML20, ALC24, AF21, AFP22, AD21, CWW20, Coa22, DDR22, DH20, FWG22, GYWH20, GQS20, KLN20, KL22, KHS20, LB21, LY22b, LZ24a, LTDC23, MW22, PWXY22, PWH+22, RMD20, SVW21, SSG+20, WZ22, YYLY22, ZZW23,

ZZW24b, dSdCdMC+24]. **anisotropy** [GPL22, LLZ23c]. **annulus** [GFG22]. **anode** [FSW22]. **anomalies** [BFL20, CDG+24]. **anomalous** [LCF+23]. **ANOVA** [CL20b]. **Anti** [sCpLL+22, HSK+21, SSPV20]. **anti-diffusion** [SSPV20]. **Anti-dissipation** [sCpLL+22]. **anti-Gauss** [PPHO22]. **anti-symmetric** [HSK+21]. **anticipatory** [DMK+24]. **antisymmetrized** [LGL23b]. **any** [Der23, Lem20]. **AP** [PCQL20]. **aperiodic** [LE21b]. **aperture** [DLMZ22, Par22]. **APFOS** [LY22b]. **APFOS-Net** [LY22b]. **apparent** [MFS+22]. **Application** [AÖR22, BCWD21, BS22b, BBP24, Cal21, CCPS23, CBCT+21, CPH+22, CCMC20, DDVO21, EFO19, EFO20, FZ21, GDJ24, GB22a, HJK+21, JADS21, KKN20, KKM21, KSST21, LLB+23, LOL22, LT20b, LSY+23, MMLL+24, MGMV22, MK20, MSIM21, MHY20, MD22, NVPP23, NKA+20, PZNK23, RHSK21, SFNMF+21, SACT21, TSS+20, WZ23a, ZZK20, AP23, ABOS22, AF24, BCG23, BBF20, BBQ+21, BABD21, BDF+23, BJR22, BGS+22b, CQY21, CBA+21, CRF+21, CA22a, CSdP+22, CEM20, DDR22, DSBFN+20, DY22b, DEB21, Eld22, FGTY23, GMB+22, GHD24, HCdM23, HP21b, KWS22, KEY20, LSC20a, LZ22a, LHM20, MSK+22, MTB22, MPIG23, MFRZ22, MBBV22, NdlLPL21, NTSM20, OYK+22, Per23, PTZ+24, SH23b, SOSM20, SMF20, WDL+21a, WLW+20, WSS22, YB22, ZSKN22, CLS24b, HNR23]. **Applications** [CBRY21b, KKA24, KdMJ+22, MFG22, NYZ21, RRG24, STI24, TGM23, WKW+22, AF21, AFP22, AFL22, ADM22, AM22, BSW24, BAK22, BKMC21, CCER20, CE21, CQW24, CFM22, DSBD24, DJ22, DLMZ22, DW20a, DMK+24, FCM+20a, FBCD22, HDML23, HR22, HBBN24, KLF22, KSBG20, KCP20, LC22, LWWH23, LXY23b, LR23, LLSD20, LM22, MYM+21, MBK21, NPD20, NBR22, Nor24a, PDPK20, RS23a, SHJ+23, TJC21, TSP22, TPPA22, WDL21c, WHS22, XFL21, ZBY+23, SGB+21b]. **applied** [DA23, DFP+21a, HP21a, KF23, LPJ+23, MKB24, PHHJ22, PPHO22, SMK23, ST24, SS22c, TVL+22, WR23c, ZLW+21]. **Applying** [KS11, MRT+22, PSL20, XBRL21, HZTN21]. **Approach** [Yan21b, ABH21, AYH+21, ASW21, ASSZ21, Ale23, ABY23, AN21b, AWB+21, BCG+20, BZSF20, BV20, BFI22, Bha20, BTEK22, BNN20, BJR22, BD20b, BBL23, BKON23, CS20, CAF+22, CL20c, CLS20b, CPK22, CA22b, DKM+20, DGGL22, DCHF21, DNP23, DD22b, DLSvW24, DW21, Dup21, EDLF20, EFR21, EK21, FSW22, FJ21, GZW20a, GNF22, GQR21, GLJB20, GOF23, GCD20, GTKA20, HLZ20, HRR21, HRRHG21, HGH20, HPX23, HX21, HNZ23a, HJJL20, JYK22, KGBT20, KP23a, KSI+23, KS21b, KNS21, KF23, KHM+22, KV23c, KBC22, LE21b, LHXZ22, LHA+21, LW20a, LL21d, LOLS23, MHA23, MM21a, ML24, MRL+23, MBTS20, NdlLPL21, NGZD22, NVPP23, ÖL23, Oru21, PA21, PRKS23, PM22a, PZNK23, PMH24, PPB23, PCD23, PEL23, QLMR24, RUG20, RDAB23, RA23, STEK17, STEK22, SLWRG21, SEG21b, SDP20, Sim23, SES21]. **approach** [SYY23, SS22b, SS22d, SOBP22, SE24, SI22, TBM22, TGM23, UHZ+24, VMBS20, VPDD22, WQ20, WZ20, WSAZ22, WD23, WKKB21, WL22, XHC22, YGW+20, YTK22, YZH+23, YK20a, ZOG22, ZA21, ZS22b,

ZOG21b, ZZN22, ZG24, ZR24a, ZZY21, ZHRB23]. **approaches** [GNZ23, HA21, JWH20, SPdS+21]. **appropriate** [AK22]. **Approximate** [BMQ20, FFY21, Ree23, AHR20, AR21, BLWL22, BGH21, CMPR23, DNO23, GGEJ20, HBFB20, LVK+22, LJH23, LZS22b, MM21b, PJBB20, SGB+21b, SFNMF+21, Svä22, WH22a, WPBS22, XF23]. **approximate-factorization** [PJBB20]. **Approximated** [BCdS+23, WLPK20, WDL21b]. **approximating** [QZHD23]. **Approximation** [RHD+24, TSSOA20, ASJ23, AF23, BLF20, BF22, BGNY22, CWL+21, CCL22, CMP+21, CDT22b, CY22a, CCHS20a, CSY23, CGM+23, CX22a, CX22b, CH22, DES23, DDP20, DV21, Ein24, ELSV22, FJG+20, GHD24, GFG22, GS21, GPS20, GCL+22, HLM+20, HRMY20, JYK22, KMS20, LSC20a, LZY22a, LTK+22, LMFV22a, LMFV22b, MRK+20a, MRK+20b, MRK+20c, MLM+21, MK20, MST23, PS22b, RB24, SEG21a, SKT20, SSK20, TTY22, TWL22, TPPA22, UY22, WZ21a, YK22, YZZZ22]. **approximations** [AD20, BNP+22, BT20, EdLCCCO24, FGK22, FGB+20, GN20, GLY22, HV20, JTK22, LHF23, LLM20, LT22b, LZ24a, LOLS23, MR23a, MR23b, Sin21, SAM23, YH22a]. **approximator** [WL24a]. **APR** [MZC+22]. **April** [Ano20a, Ano20m, Ano21a, Ano21m, Ano22a, Ano23a, Ano23m, Ano24a, Ano24g, Ano22m]. **aquifers** [SFP+20]. **Arbitrarily** [GZW20b, Cam21, CL23a, CC23, HHL20, MHW21, PR20, PAGJ23, ZZW23, ZZW24b]. **arbitrarily-shaped** [PAGJ23]. **Arbitrary** [CLB23, CB24, GBC+20, SOSM20, WZL21, XDLX21, AAM20, ADJ23, ATCS20, BT23, BZ21, CCM+22, CLLL20, CBBI20, CI21b, CCAR22, CLP21, CLPP24, CGM+23, DD21, DLY22, EPL21, FHWK21, FX22, GDB24, Hac21, HSXZ21, KCS21, KKS21a, KKS21b, KB22a, KLB23, KB23, LZX+22a, LQXM22, LEH+21, Nis22b, PA21, QJQW22, QJL23, REC+22, RC20a, RRPSS21, TWY22a, TKR22, TSSOA20, TRC22, VVRWT21, WDK22, YTWK23, ZCL20, ZXX23]. **Arbitrary-Lagrangian** [CB24, GBC+20, WZL21, CLLL20]. **arbitrary-order** [DD21, EPL21, Hac21, KCS21]. **arbitrary-species** [ATCS20]. **architecture** [CDL+22, TC23, WZ24a]. **architectures** [DM21, DFG+23, SMW+22]. **area** [AZV23, CP22b, Hua21, JL21b, Nis20a]. **area-conserving** [JL21b]. **area-to-line** [AZV23]. **arising** [APR22, MMS24, NMGR21, ZR24b]. **array** [LW22a]. **arrays** [GCMV23, GLJB20]. **arterial** [BCPV21, CDT22b]. **arteries** [LC23, LAMC24]. **artery** [QCWC23]. **articulated** [UD22]. **artifacts** [LLF+22]. **Artificial** [HZB+21, HCdM23, JPAZ21, MDB24, TR21, UHZ+24, XZWH22, YG24, ALC24, BS22b, CDM+23, DHR20, DTB20, Edo24, FL21, GCVI22, GLWZ22, LJZK21, LHA+21, MRK+20a, MOBR22, MFK21, NIT21, QPW21, RKVV20, SRH21, SEG22, SLNM21, XZC21, ZB21b, ZLS22, ZQ20]. **ascent** [LXY23b]. **aspect** [HRWP22]. **aspects** [MH22b]. **ASR** [YKLL21]. **assemblies** [KCT+23]. **assembly** [BCC+24, CDK+23, JBF21, LCC+23b]. **assessed** [Vre20, Vre21b]. **Assessment** [EDEV23, JAW+23, MBDS23, MPBG23, MKM23, GFG22, SBC20]. **assimilation** [AB22, BJ21, BT22, BPJ22, CMH20, CNBH23, CFM22,

CPH+22, CLGA24, CWT24, CLP22, FFGRLS+20, HPS23, KHM+22, LDZ24, MLCM21, SKT23, TLD20, YG21, YBST24]. **assisted** [JKJ20, WYS20]. **associated** [GQ22, LLO22a, LWL+23, MCVF22]. **assumptions** [CWW22]. **Asymmetric** [BHW23, WF23]. **asymmetrically** [PDM23]. **asymmetrically-weighted** [PDM23]. **Asymptotic** [Gao24, LY22b, PBCL20, APR22, ACÉ+22, BTZ22, BF24, CDT22a, CWX23, CC23, CCAR22, EHW21, GMB+22, HXX22, JTZ22, KCCR22, LPM+20, LXY23a, MGL21, MRBS22, RC20a, SSS20, SSX23, XSSS22, XJS21, ZSST23]. **asymptotic-numerical** [CCAR22]. **asymptotic-preserving** [CDT22a, CC23, EHW21, KCCR22, LXY23a, MRBS22, RC20a]. **Asymptotically** [DC23, FR23, FTY+22]. **Asymptotics** [CCPS23, Fei23, FN22]. **Asynchronous** [TSP22, GMA23, KCD+23, Unf21]. **asynchrony** [KD20]. **asynchrony-tolerant** [KD20]. **atherosclerotic** [FH23]. **atmosphere** [KRG+23, LP21]. **atmospheres** [BRZ+23, GHP+23]. **atmospheric** [CLXS23, DLSvW24, KRG+23, Lee21, NME23, PS22c, RWdBAG23, RLD24b, SW22]. **atmospheric-pressure** [SW22]. **atom** [CLC24a]. **atom-like** [CLC24a]. **Atomic** [DBC+22, ASBM20, ST24]. **atomistic** [DGL+22, PSJ23]. **atomistic-continuum** [DGL+22]. **atomization** [FGL+22, GPSMH20, JGM+22, MMdMB22]. **atoms** [HSB20]. **attached** [DR20]. **attentional** [SWY+24]. **attenuation** [FS23b, SFP+20]. **augmentation** [SMF20]. **Augmented** [BCC+20, BFM23, DD22b, Dup21, GYC+23, HV20, JWZ20, PBVC22, YG24]. **August** [Ano20b, Ano20n, Ano21b, Ano21n, Ano22b, Ano22n, Ano23b, Ano23n]. **AUSMD** [CNC21]. **auto** [GZ20]. **auto-regressive** [GZ20]. **autoencoder** [KCWZ22, PMH24]. **autoencoders** [BSVM23, GFPO22, LC20, LPBK23, STI24]. **Automated** [PK23, GHH24]. **Automatic** [BGR20, ASBM20, BGH21, CL23a, FFRT+21, LBC23, LST24]. **automatically** [Hig22]. **Auxiliary** [AST21, YNDH22, AE20, CJT+20, CC22a, JZZ22, LL21d, YD20, YX22, YTK22]. **avalanches** [DSBFN+20]. **Avazzadeh** [Pan20b]. **average** [CZ20b]. **Averaged** [LMFV22a, LMFV22b, BS22a, BSK+23, CMCX23, DGW22, EdLCCCO24, FRW+24, FWNT21, HRWP22, NW20, SSW22]. **averaging** [VCPGR20, ZWZL22]. **AVF** [HL20a]. **avoid** [LKJL22]. **avoiding** [BT24, CBCF20]. **Aw** [BX20]. **Aw-Rascle** [BX20]. **aware** [DCC+24, JADS21, MRHR20, PMACG21, RRN23]. **AWENO** [GGH+23]. **axes** [DSBFN+20]. **axis** [CKN22a, GWC+22]. **Axisymmetric** [MSK+22, BGNZ22, BSP21, CDT22a, HBF22, HP22a, Lem20, LZ24a, MT21, QJL23, SLOZ21b]. **Aymard** [Abg20]. **azimuthal** [GKRS22, LAT+22].

B [Abg20, DNO23, BBF20, LBSR20, LMZ23, MMKM24, PC23, YMK21]. **B-DeepONet** [LMZ23]. **B-grid** [DNO23]. **B-PINNs** [YMK21]. **B-spline** [BBF20, LBSR20, MMKM24]. **Backflow** [XBD+20]. **background** [DW20a]. **Backscattering** [GCSH22, DLMZ22]. **backward**

[AB22, CY22a, CCMC20, LG20, PK20]. **Baer** [CMRR21, LL21b]. **balance** [CMPR23, Heu21, LP21, LE21b, LWW21, MN21, PCF21, PPP21, PM22a, PPHO22, WKW+22]. **balanced** [AR20, CKLZ23, CMPR23, CLW+24, CLLL20, CTCS22, CSM23, DEN22, DSBFN+20, DYZ24, DZGP24, FZB+23, GdFP+24, GBLT20, GLK20, DCC+24, GGH+23, GLWY22, Hig22, HLA20c, HXX22, HX23, HLQZ23, JTW22, JH23, KLZ20, KLX23, LPM+20, Lee21, LG21, Liu21, MN21, MÖR24, NME23, PR24, PPP21, PGMTP23, RWQX23, TPK20, WGY20, WY22b, YYX21, ZDT23, ZZ23c]. **balanced-force** [HLA20c, HX23]. **balances** [Sin21]. **balancing** [TTSP21]. **Balescu** [SHS+20]. **ball** [BBO+22]. **balls** [PC23]. **band** [CMSS21, Per23, ZZY+20]. **band-limited** [Per23]. **banded** [SMW+22]. **baroclinic** [LJW+22]. **barotropic** [CHT20, LJW+22]. **barrier** [BF22, BFM23, BT24]. **barriers** [Giv23]. **barycentric** [GGM+23]. **Based** [CSY20, ADK+21, AMG23a, AF21, AP20, AWP23, AST21, ADM22, AHWZ20, AE20, BL22a, BF22, BFM23, BTT24, BRT22, BO22, BGR20, BZSF20, BVR22, BGGM22, BTZ22, Ben23, BGS22a, BMBM24, Bha20, BZB20, BSW+22, BTEK22, BP21, BJR22, BTKP24, BPJ22, BG20c, BJW20, CCLL20, CWL+21, CKLZ23, CORJ+23, Cha21, Cha23, CLC24b, CNBH23, CJT+20, CL20d, CGJM21, CHZ+21, CZLC22, CLS20b, CCH+23, CSM23, CBA+20, CKN22b, CX22a, CX22b, CSdP+22, CDZ23, DLZZ21, DKM+20, DSSSP20, DVS22, DSPB22, DEvW20, DD22b, DD21, DZC+23, DSBD24, DMC+23, DW22, Edo22, EDLF20, EKPS23, ESJ23, EFSH21, FZS+21, FGK22, FVM23, FDH+24, FBD+22, FJ21, FHJ22, FL21, FCWS22, FFL+23, FTZ22, FC21, FB23, FRW+24, FM20, FWG22, FGL+22, FLS23, GCVI22, GN23a, GW23, GLF23, GQF24, GD20, GHY22b, GTWJ24, GN20]. **based** [GWC+22, GDB23, GPHAPR+22, GHNS21, Gri20, GFY20, GLCS23, GN23b, GLT+20, GA24, GFF20, GN23c, GYWG23, HBFB20, HHAFR21, HPW21a, HSH20, HZTN21, HLM+20, HYQ20, He22, HRY+22, HSW21, HTL21, HLPX24, HBBN24, HPW21b, HP22a, HSB20, HT21b, HWZ24, HCCR22, JYY22, JZSX20, JZSX24, JP23, JZL+24, JLRZ20, KTDG20, KS22a, KKL+23, KBCH20, KS22c, KC20a, KUO23, KRG+23, KKS21a, KKS21b, KLS+20, KSI+23, KSK+24, KNS21, KH20, KGSK23, KLF22, KdMJ+22, KJdM+22, KCCJ21, KB22a, KKY+21, KBC22, KCD+23, KLX23, KV23d, LT22a, LLCJ23, LJ20, LKEM21, LPM23, LMS23, LL23a, LN23, LJ22, LLZ22, LLF+22, LSC20b, LLNL21, LH21, LZX+22b, LZY22a, LZPM22, LAT+22, LW22a, LLL22, LY22a, tLjTbZ22, LO23, LLTY23, LXZ23, LWY23, LHPS24, LF24b, LZC+20, LC22, LSZY20, LZLS21, LYS+22b, LSY+23, LFW23, LJK+24, LAMC24, LYH23, LWX24, LN24, LKJL22]. **based** [MMS24, MS20a, MMLL+24, MOBR22, MA21, MCVF22, MDB24, MRBC22, MZ23, MKM23, MBM+22, Mon21, MYZ22, MMM23, NNL+20, NFA21, NBR22, NGK+21, NPL+24, OGVM20, Oru21, PDM23, PT23a, PP22a, PKC22, PWbCJ24, PCB22, PR23, PRKS23, PM23, PD21, DM23b, PB22, PCD23, PBF24, Puk20, PO23, QSZB20, RR21a, RMD20, RMJ23, RS20c, RHR20, RBPRST20, RB21, SL20a, SKP+21, SKT20, Sar21b, SMK23, Sel22, SC22a, Sha23, SK23b,

SBVM20, SHM24, SJGC21, SKCM22, ST24, SFGNMGN22, SE24, SLNM21, SLQW22, TLD20, TL20, TCK+22, TJC21, TM23, TN23, TSP22, Tlu22, TSSOA20, TAVD21, TPYX22, TWY+22b, VMO21, VGG23, WKK24, WRH20, WCZ+20, WDS22, WCF22, WWFM22, WGSX23, WL24b, WSG+24, WCKS24, WX24b, WR23c, XDLX21, XHX22, XKZ21, XCL22, XBD+20, XZW21, XZWH22, XMZ+23, XLL24, XSA+21, YHC+22, YD20, YZdCNS21]. **based** [YZSD21, YA21, YJSX22, YTK22, YZZ23, YAX20, YCC+22, YZZ24, YNT20, YXL22, YM20, ZSP20, ZNK23, ZB21a, ZCZ22, ZWY21, ZCY23, ZCYS20, ZGLL20, ZHL21, ZS21a, ZDW22, ZC22a, ZMZY23, ZYY+24, ZZN22, ZIMA24, ZR24a, ZZY+20, ZLW23, ZY24, ZXD22, ZWB21, vdBSB20, vdWvBAA24, FZ20a, RHD+24, TMG20, WWJ24]. **bases** [AMB22b, DCA+22, VK24]. **Basic** [KDL23, PO23, SLOZ21a]. **basis** [AKWY20, BSVL24, BHP24, BKMC21, CGJM21, CS21b, DDP20, DW20b, EJV22, EFY23, FZS+21, JYY22, KS22d, KLN20, KL22, KLW24, LLLL23, LYS+22b, LZ23, MRYS20, PZ24, PRPK23, TVL+22, WQZP20, WCC23, Xia23]. **Batch** [JLL20, DFJ22, DL21]. **Bateman** [CS22]. **bathymetries** [DS22a]. **Bayesian** [ACDV24, BCC+24, Bha20, BS21, BGH21, BKON23, CORJ+23, CZ20b, CWT24, DCS23, DEB21, EKPS23, FSWA22, GSOM23, HWZ24, LSL20, LWY23, LWZ22, LMZ23, MBK21, MRT+22, MTWBT21, PMSP23, PWB24, RBBD22, SPdS+21, SKP+21, WMS21, WDL21c, WPBS22, WK24a, XZ22, XLL24, YMK21, vdBSB20]. **Bayesian-variational** [GSOM23]. **BDF** [WZSC22, ZOWW20]. **beam** [CA22a, EWN+23, HX21]. **beams** [AF23, RW22]. **Beavers** [QHLL20]. **bed** [ZR24b]. **beds** [MMLL+24]. **behavior** [AYH+21, IL23]. **behaviour** [Gin21]. **behind** [MLM+21]. **below** [CDL21]. **belt** [DDR22]. **BEM** [Sel22, van22]. **benchmark** [EAA+22, ZOWW20]. **Benchmarking** [GBF+24]. **benchmarks** [SLOZ21a]. **bending** [BNN20, NSS23, Yan21c]. **Benjamin** [RWY21]. **Berenger** [HCL20]. **Bernoulli** [MS20b]. **Bernstein** [EH22a, GC20b, Hac21, KdL20]. **best** [ABOS22, HLM+20]. **bets** [OGVM22]. **better** [GA24]. **between** [BDWC23, BGSP22, GCV22, GLJB20, HYSS22, HBEK23, Ish22, KKS21a, LZX+22a, LW22b, MMPD21, NG20, PRO22, RGH+22, RSWD21, SDA+21, TUCT24, WCL+20, ZTS20]. **Beyond** [Den23, OKTD21, Gin21, Giv23]. **Bézier** [BNP+22, GC20b, Hac21, PHHJ22, ZXD22]. **BGK** [BVT20, BT20, BCR22, BD20a, CKT21, DWM23, HHK+23, LMK21, MRBS22, SHM24, TKR22, vdWvBAA24]. **Bhatnagar** [FZLL20, FJ21, FHJ22]. **Bhatnagar-Gross-Krook** [FZLL20]. **BHP** [LO23]. **bi** [BNP+22, BBL23, CHN24, DD22a, LHC22, LZ20b, LPZ22, OA21, PZ24, ZDS+21, FJG+20]. **bi-calibrated** [OA21]. **bi-cubic** [BNP+22]. **bi-fidelity** [DD22a, LZ20b, LPZ22, PZ24, ZDS+21, FJG+20]. **bi-fluid** [BBL23]. **bi-orthogonal** [ZMG+22]. **bi-periodic** [CHN24, LHC22]. **bias** [LXCZ24]. **BiCGSTAB** [BZC+22]. **bif** [HXQL23]. **bif-PINN** [HXQL23]. **bifurcation** [MCBA20]. **bifurcations** [DS23c, WZ23b]. **BiGlobal** [FDH+24]. **bilayer** [BNN20]. **bilinear** [vdEW24]. **bimaterial** [MZI+23]. **binary** [ALF+22, LCCM22, LZH23, LZC+23, SS23, XZNZ23, YH22a]. **Bingham**

[WSS22]. **bio** [AP23]. **bio-inspired** [AP23]. **biobjective** [HBEK23]. **biofluids** [LR22, LR23]. **bioheat** [HHRA19, Pan20b]. **biological** [HW23, PEL23, XJL23]. **biomechanics** [LOL22]. **biomembranes** [WGS+20]. **biomolecules** [CEBG22]. **biorthogonal** [PRPK23]. **Biot** [BHK+22, CG23, YSTK20]. **Biquadratic** [PWX24]. **Birkhoff** [MRYS20]. **bistatic** [KLP22]. **bivariate** [RA23]. **black** [KKA24, KS22d, KLG+22, LLSX23]. **black-box** [KKA24]. **black-box-type** [KLG+22]. **blast** [NTSM20]. **blob** [GNW22]. **Bloch** [JZL+24, YLNT20]. **block** [BCC+24, BDS23, FWG22, HA21, KCS21, LCC+23b, MSWH22, NFA21, NGZD22, RAZA21, YFLL21]. **block-based** [FWG22]. **block-diagonal** [KCS21]. **block-Jacobi** [HA21]. **block-structured** [MSWH22, NGZD22, RAZA21]. **blood** [BCPV21, CDT22b, GBLT20, KBSF22, LBM+23, PBVC22, PGMTP23, RSA+22, RE22, YKH24]. **blow** [GLY22]. **blow-up** [GLY22]. **Board** [Ano20y, Ano20z, Ano20-27, Ano20-28, Ano20-29, Ano20-30, Ano20-31, Ano20-32, Ano20-33, Ano20-34, Ano20-35, Ano20-36, Ano20-37, Ano20-38, Ano20-39, Ano20-40, Ano20-41, Ano20-42, Ano20-43, Ano20-44, Ano20-45, Ano20-46, Ano20-47, Ano20-48, Ano21y, Ano21z, Ano21-27, Ano21-28, Ano21-29, Ano21-30, Ano21-31, Ano21-32, Ano21-33, Ano21-34, Ano21-35, Ano21-36, Ano21-37, Ano21-38, Ano21-39, Ano21-40, Ano21-41, Ano21-42, Ano21-43, Ano21-44, Ano21-45, Ano21-46, Ano21-47, Ano21-48, Ano22y, Ano22z, Ano22-27, Ano22-28, Ano22-29, Ano22-30, Ano22-31, Ano22-32, Ano22-33, Ano22-34, Ano22-35, Ano22-36, Ano22-37, Ano22-38, Ano22-39, Ano22-40, Ano22-41, Ano22-42, Ano22-43, Ano22-44, Ano22-45, Ano22-46, Ano22-47, Ano22-48, Ano23y, Ano23z, Ano23-27, Ano23-28, Ano23-29, Ano23-30, Ano23-31, Ano23-32, Ano23-33, Ano23-34, Ano23-35, Ano23-36, Ano23-37, Ano23-38, Ano23-39, Ano23-40]. **Board** [Ano23-41, Ano23-42, Ano23-43, Ano23-44, Ano23-45, Ano23-46, Ano23-47, Ano23-48, Ano24m, Ano24n, Ano24o, Ano24p, Ano24q, Ano24r, Ano24s, Ano24t, Ano24u, Ano24v, Ano24w, Ano24x]. **bodies** [DDVO21, GGCvR22, Ian20, LHT21, MB24, PTT24, UD22, VSS21, WNB21, XS20, ZTS20, vdEW23]. **body** [BPG21, CRF+21, FADJ20, JGvR23, KKA24, KBS+21, KWR+23, LT20b, MBM+22, NG22, OSL22, QCWC23, RIC+22, UHZ+24, WBN22, YJK21, YhCdJ+23, YP22]. **body-fitted** [FADJ20]. **Bogoliubov** [GC20a]. **Bogoliubov-de** [GC20a]. **Bohm** [PTZ+24]. **Boiling** [ZZN22, KVH20, MCBA20, SGB+21a, TUCT24, WZCK21]. **Boltzmann** [KKJ21, dv23a, AYH+21, AMW22, AWB+20, AWB+21, BSR20, BGGM22, Bel24, BVT20, BT20, BZ20, BCR24, BSK+23, CSY21, CYS23, CTG23, CW22b, CFJF23, CBA+21, DSSSP20, DBSS+20, DFJ20, DWM23, EC20, EH22b, Gin21, GDF21, GFJ+20, HPW21a, HTV+22, HQ20, Jai22b, Jai22c, JLL22, KS21d, LL20, LLKY21, LRT13, LGZ21, LLWX22, LZ20b, LSZY20, LHWZ21, LZY+22b, LMK21, LLSD20, LLD+22, MWY+20, MTB22, MST23, MRBC22, MYY+23, MRBS22, MR23b, OGVM20, PZ20, PAA21, Poë23, QKG21, Rei22, RWBS21, RR22, RA21, RHC+24, SH23a, Sar21b, SMK23, SHM+23a, SOG+22, SKCM22, SMLM23, TKR22, TS20, TOB+24, TPYX22,

WZC21, WSAZ22, WS22, WTZB23, WGY+21, WLL+23, Xia21, XF21c, XF23, Xie22, YSC23, YYJ+23, ZHPZ21, ZQC+23, ZZZ20, ZIMA24, ZYY23, vdWvBAA24]. **Boltzmann-BGK** [BVT20, BT20, DWM23]. **boom** [YWN20, YI23]. **boost** [CC20]. **bootstrap** [CY21]. **bootstrapping** [MPIG23]. **Boris** [CC22b]. **Bose** [CL21, CDLX23, GC20a, LXY23b, MR23b]. **boson** [LM22, MPMD20]. **both** [HCL20]. **bottom** [AMB22a, ZDT23]. **bottomhole** [LO23]. **Bound** [FGKY22, GS20, HSW22, HS23, CYS22, CDW23, DY22d, GLY20, JLQY21, KWCS23, LCSZ21, LRT+22b, TYC23, TYC24]. **Bound-preserving** [FGKY22, CYS22, CDW23, DY22d, GLY20, KWCS23, LCSZ21, LRT+22b, TYC23, TYC24]. **Bound/positivity** [HSW22, HS23]. **boundaries** [ATS24, CDBS21, CRF+21, Coc20, CMS23, GvR24, HJ22, LBN21, Lév22, MMZZ22, Ree23, TKR22, VACE21, ZCY+21]. **Boundary** [ASS21, BRT22, BBF20, CMNS21, EWN+23, HSS21, LG24, Sel22, SAM23, ZHR20, ZH20, AHG21, AD20, AD21, ALCZ20, ACD23, ATS24, ADM+21, BMV22, BBGT21, BZ21, BFG22, BBKB21, BFS23, BDB21, CHS20, CNB+23, CBCT+21, CAG20, CLS+20a, CLW22, CZLC20, CYS23, CTG23, CZCY23, CLLL20, CW22b, CFJF23, CAT20, Chi23, CSLC21, CRPB20, CPBB21, CL23b, DNW23, DA23, DHK23, DR20, DLM+23, DSZ20, DG23, DN21, DLL22, DLYZ23, DC22b, EFR21, ELSV22, FDH+24, FZ20a, FHM24, FJH20, FDP20, FBS23, FGD+21, GRC+22, Gin21, GAB+22a, GS22, GOF23, GBF+24, GF21, GKD23, HBFB20, HF23, HP21a, HP22b, HLA22b, HNZ23b, HXQL23, Ish22, IK23b, IRT22, JPAZ21, JLC21, JLLY24, JDB+23, JG21, KM22a, KB24, KBSF22, KS11, KRG+23, KSH22, KEY20, KdMJ+22, KJdM+22, KF23, KKY+21, KT20, LS22, LWL22, LM21b, LYL20]. **boundary** [Li20, LZX+22b, LZ22b, LPJ+23, Lin21, LHT21, LCF+23, LJS+23, LZZW24, LAMC24, LSTZ21, LCDS23, MWY+20, MZ22, MB24, MKB24, MPBG23, MQ20, MBM+22, MGA20, MD20c, NG22, NFL+21b, NGZD22, NLZ+22, NG20, NW22, Nor22a, Nor24a, Nor24b, OB20, OL20, OLS21, OSL22, OCGT22, PSL20, PJA22, DAGL23, PAGJ23, PH22, PL20, PPB23, QHLL20, RKA+23, RS20b, RFZ22, RRPSS21, RS23b, RB24, RGSR21, SM21a, SYOS19, SYOS21, SPdF20, SKT20, SWM21, SRTB21, SC22a, SBL22, SY21, SSMA21, SNW23, Svä21, Tak23, TAWD23, TNB21, TPB22, Tlu22, TF20, TSM24, VBA22, Vre20, Vre21b, WQ20, WGS+20, WP21, WH22b, WKKB21, WLL+23, WK24b, XC20, XY20a, XC23b, XSA+21, YLS21, YYM+22, YYB23, YGL20, YP22, YP24, ZG21, ZHPZ21, ZXY22, ZZZH23, ZABP+24, ZZZ20, ZCY+21, ZMW23, ZB21c, ZYY23, ZY24, vNGB22, vHG+22]. **Boundary** [CF21, RB21]. **boundary-conforming** [CLLL20]. **Boundary-consistent** [BBF20]. **boundary-lattice** [MWY+20]. **boundary-layer** [HBFB20, MD20c]. **boundary-material** [NLZ+22]. **Boundary-optimized** [SAM23]. **boundary-phase** [SRTB21]. **boundary-reconstructed** [WLL+23]. **boundary-value** [SY21]. **boundary/multi** [CW22b]. **boundary/multi-relaxation** [CW22b]. **bounded** [CJK24b, CJK24a, Ere22, HBF22, HLA22b, HTDL24, KGN22,

Nor22a, PEA20, PO21, Ree23, SB23, SSG+20]. **boundedness** [MIM20]. **bounds** [CF20, KKA24]. **Boussinesq** [ADK+21, GFG22, KMS20, LSXC20, MJS23, PKC22]. **box** [KKA24, KS22d, KLG+22, LLSX23]. **BR2** [BV22]. **brackets** [SST+23]. **brain** [CG23]. **Branching** [FCP21, NPP24]. **Brazovskii** [ZZ23a]. **Breaching** [DEvW22]. **breakdown** [NTSM20, XSF23]. **breakdowns** [GMD22]. **breakup** [CDJM21, ZMZY23]. **Bregman** [GU20]. **bridges** [KCX+21]. **Bridging** [CRPB20, HYCL23, YJP23, LLB+23, WLPK20]. **Brinkman** [LCWH23, NYY22]. **brittle** [DAJ22]. **Brownian** [Far20, OSZ21, SB23, WDK22]. **BSDE** [TTY22]. **BSLM** [KKPB20]. **bubble** [ACR23, BDTU24, KKJ21, LZH23, SBC20]. **bubbles** [BFG23, CDJM21, GHY22b, MX22]. **bubbles/droplets** [GHY22b]. **Buckingham** [ODM23]. **Buckley** [AFV20]. **budget** [CPX21]. **Building** [LRT22a, LR24]. **buildings** [CFS23]. **built** [Cie20]. **bulk** [HLA20a, MYY+23, SVW21]. **buoyant** [JHT23]. **Burgers** [SFNMF+21]. **buried** [LYZ22]. **Burton** [Sel22]. **butterfly** [CZHY20, LY20b]. **BVD** [CF21, CDX+21]. **bypassing** [RN23].

C [LP23a]. **C-staggered** [LP23a]. **C0** [EFR21]. **C1** [EFR21]. **CABARET** [GMMS22]. **CABARET-MFSH** [GMMS22]. **cache** [LWWH23]. **cache-efficient** [LWWH23]. **Cached** [DS20]. **Cahn** [FQSW23, LHC22, MRK+20b, NMR+22, QWZ21, CZ20a, CLS20b, CWW20, DWWZ21, Fu20, GHHR22, GTWJ24, GCL+22, HLA20b, KLS+20, KSI+23, LLCJ23, LYZW21, LQX22b, LQX22a, lLTZ20, LFT+20, MRK+20c, NS22, NMR+21, SHM+23a, SZQS23, VRK21a, WJKW20, Yan21b, ZWY21, ZY20b, ZOWW20, ZLQS24, ZH21]. **calculating** [DC22a, Ish22, SHM23b, Sha21]. **Calculation** [ZIMA24, BFS23, CHDB23, CEBG22, FCWS22, MHWY21, YS22]. **calculations** [AWP23, CMSS21, DLZZ21, Dup21, MH22a, PMF20, PM21b, TMG20, WLW+20, XL24]. **calculus** [BRS22, MJS23, THH22, WJHS23]. **Calderón** [CJSZ23, FJH20, GGM+23, KBH+22]. **Calibrate** [CGIL+21]. **calibrated** [OA21]. **Calibration** [ZWB21, BCC+24, BGS+22b, DEB21, TAVD21]. **CAMERA** [RRN23]. **Can** [NE23, SZW+20, DM21]. **cancellation** [SCL20]. **cancer** [HKW24, NE23]. **candidate** [XCZ20]. **Canham** [NSS23]. **Canonical** [LHPS24, AKK20]. **capability** [HYZ22]. **capillaries** [VPL20]. **capillary** [AFV20, BV21, DEvW22, JFH21, LGY+20, Pan20a, YZK20, ZGK+22]. **capillary-controlled** [JFH21]. **capsule** [AP22, CBCT+21]. **capsules** [HW23]. **capturing** [ASKH21, APR22, BSV22, BSP21, CF21, CD23, CLS20b, HRRHG21, HLL22, ITK24, JRD22, KR23, LFA21, MGMV22, MDB24, MM20, NZRH24, PB20a, PAA23, PS22b, RRHH+21, SBC20, SS22b, SS22c, SS22d, TZ21, TLHL23, vdEW24]. **carbon** [SFP+20]. **carbonate** [YZK23]. **cardiac** [ASG+23, BPS23, BCG+20, BBQ+21, BGQ+23, FBD+22, RSA+22, ZMQ24].

cardiovascular [HBBN24]. **Carleman** [KNT22]. **Carlo** [LTK+22, Poë22, ALF+22, BBQ+21, DZC+23, Fei23, GN23a, GP23, HLZ20, HJLZ23, KOM+22, KFP+22, KNP20, KSK21, LT22a, LCPW23, LGL23b, LMG+21, LLT+24, LMUHR22, Mar24, MRBS22, NFPSSA24, OGVM22, Osi24, PJW21, PZ20, PV20, PB22, Poë22, RA21, SH23a, SGMT20, SGM21, SXZ+23, SSX23, Shi23, SBJ+23, SH22, TT20, TBD+20, VM22, WPBS22, XHC24, YS22, Yan21a, ZS21b]. **Cartesian** [Bar21b, BG20b, CDBS21, Cam21, CTG23, CLP21, CLPP24, CPBB21, DDR22, Eld22, HL22b, HW23, LD20a, LJZK21, SBL22, SI22, TJM23, WBH+24, XS20, XLS22, YWN20, Yok24, ZPW+23]. **Cartesian-diffusion** [HL22b]. **Cartesian-grid** [Cam21, CLP21]. **Cartesian-octree** [HW23]. **case** [BTKP24, CLS20b, CJK24b, CJK24a, DZ23, ER22, GDL23, HST22a, HPRW20, MMSW22, NMN23, POS+20, PZ20, RA23, SC22c, SGLP23, TBW22]. **case-study** [POS+20]. **cases** [DZ22]. **CAT** [MLPR24]. **Cauchy** [HBF22, KKPB20]. **causal** [PJZ+23]. **caustics** [GDL23]. **cavitating** [BFC23, PKG20]. **cavitation** [BDTU24, CPD+24, GPSMH20, LZH23, SS23, ZMW23]. **cavities** [KAC22, YL24a, ZZW23, ZZW24b]. **cavity** [CJLL21, TBG20, YL24b]. **Cayley** [MCVF22]. **CCZ4** [DFGR20]. **CD** [CPTR23]. **CD-grid** [CPTR23]. **cDFIB** [Chi23]. **Cell** [FLW20b, GDB24, KCS21, KKL24, STC+21, ALF+22, BL22a, BFG22, BG21, BLM22, BCP22, BL21b, BBW+21, CHMP24, CCY+20, CCN21, CY22b, CZLC22, CC23, CLJ+20, CDL+22, CAT20, CKN22a, CSLC21, CBCF20, DSS20, Ere22, FCM+20a, FGL+22, GSFH22, HHL20, HL22b, HPRW20, HPW21b, JCM24, JG21, KBSF22, KDL23, KS21c, LT22a, LB24, LYL20, LAT+22, LXY23a, Li23, LH20, LJK+24, LKG+20, MÖR24, NW20, NW23, OCGT22, PWH+22, PGCC+22, QJQW22, QJL23, RE22, Sha23, SCL20, SC22d, TCA21, TZM+20, TRC22, WDS22, WZL21, WBH+24, XLS22, YWN20, ZB21b, ZXBS22, DFG+23, EC20, GHS22, LPH+24, PTZ+24, RB21]. **cell-** [GSFH22]. **cell-based** [FGL+22, LT22a, LJK+24]. **cell-cell** [KBSF22]. **Cell-centered** [FLW20b, GDB24, KKL24, BLM22, BCP22, CZLC22, CLJ+20, KDL23, LH20, NW20, NW23, PWH+22, QJQW22, QJL23, WDS22, WZL21, ZXBS22]. **cell-centred** [LB24]. **cell-resolved** [RE22]. **cell/level** [LCP+24]. **cell/volume** [XS20]. **cells** [ACML20a, ACML20b, BO22, FSW22, HST22a, KDL23, KLB23, KB23, NE23, QJQW22, TB23, TYBW23]. **cellwise** [CS21c]. **CEM** [CP20]. **CEM-GMsFEM** [CP20]. **center** [AKK20, LAT+22, PK20]. **centered** [BS22a, BLM22, BCP22, CZLC22, CLJ+20, FLW20b, GSFH22, GDB24, HZD21, KKL24, KDL23, LLPL22, LH20, NW20, NW23, PWH+22, QJQW22, QZZ+24, QJL23, SGW+23, SEG21b, SEG22, WDS22, WZL21, YJK21, ZXBS22]. **Central** [HPW21a, KNP20, ZWLG23, BD20a, CKLZ23, CF21, CCH+23, CKN22b, FZ20a, GKL21, JTW22, KLZ20, KLX23, LC23, PWK20, SAP22, ZB21a]. **central-line** [LC23]. **Central-moment** [ZWLG23]. **central-upwind**

[CKLZ23, CF21, CCH+23, CKN22b, GKL21, KLZ20, KLX23]. **centred** [LB24, Mon21, TSTH20]. **centroid** [Nis20a]. **certain** [DM21]. **CFD** [BSCG22, BJR22, CZ22b, DGGL22, DEB21, HRG+23, PBN+21, SWHJ22, WZSK22, ZP20, ZAW+20, vL24]. **CFD-DEM** [CZ22b]. **CFD-driven** [BSCG22, ZAW+20, WZSK22]. **CFL** [CK20, HZHL22, Liu20b]. **CFS** [HYH24]. **CFS-PML** [HYH24]. **CG** [CMS+22b]. **chain** [LTK+22]. **Challenge** [Cai21]. **change** [BDTU24, BSV22, HHAFR21, HLA22a, LZT+23, LCP23, LYH23, MMZR21, MRL+23, WA23, ZSY24]. **changes** [CMPZ22, GBC+20, HCL22, HF23, KSST21, MS20a]. **changing** [LSTZ21, SCB20]. **channel** [DTB20, HKJ21, XC20, Xie22, XC23a, ZGLL20, ZYY+24]. **channels** [CCAR22, Liu20a]. **Chaos** [Poë22, RBBD22, Bha20, BKON23, CGC21, EPL21, EPL22, HL20c, KP23b, LT20a, NDH20, NSS24, Poë23, ST24, PB22, TPSN20, VGG23]. **chaos-informed** [CGC21]. **chaotic** [CBCF20, CF22, HD23, KP23a, KH21a, WKA+20]. **character** [YAX20]. **Characteristic** [CYS23, YMY+21, ABDD20, CCH+23, FL21, FDP20, KFSM21, MZ22, MCF23, SC22a, TN23, YSN23]. **characteristic-based** [SC22a]. **characteristic-featured** [FL21]. **characterization** [KAC22]. **characterized** [GSOM23]. **charge** [AFF+23, CCY+20, EC20, Ere22, PP22c, RN24, SMY22, XC20]. **charge-conserving** [CCY+20, Ere22]. **charge-momentum-energy-conserving** [SMY22]. **charged** [KCCR22, RC20a, RGLN22, SGM21, Ume23, WLH21]. **charged-particle** [KCCR22, RC20a]. **charges** [BBP24]. **Chaussee** [PJBB20]. **Chebyshev** [BG20c, EDLF20, RS20c, WWZZ24a, WSS22, YNT20]. **Chebyshev-based** [BG20c, EDLF20]. **Chebyshev-collocation** [RS20c]. **check** [CMGGS23]. **checkerboard** [DMRG22]. **checkpoint** [CCN21]. **checkpoint-restart** [CCN21]. **chemical** [AGR23, EMP24, GN23c, HZY22, PEL23, XYL22]. **chemically** [CJK24b, CJK24a, DY22d, JK20]. **chemistry** [BCG23, BB20a, GCVI22, LLB+23, MLM+21, PSCK23]. **chemo** [GN23c]. **chemo-hydro-mechanical** [GN23c]. **chemoepitaxial** [LCC+23b]. **chemotaxis** [BGH21, LHL+22, QLY21]. **Cherenkov** [BD20b, LKG+20, NNL+20]. **Chimera** [CB24, KFSM21, MMZZ22]. **chiral** [KCK21]. **chirality** [FCGKR23]. **Choice** [ZS21a, Kem24, RRPSS21, ZZH22]. **chosen** [KP24]. **CIAs** [BTK22]. **circle** [Sha23]. **circuit** [BGSP22]. **circuits** [RMN+24]. **circular** [FZS+21]. **circulation** [RSA+22]. **Circumventing** [ZNCZ+21]. **class** [BGFB20, CCH20, EFR21, GLY22, HSW22, LCR22, Mar23, Osi24, RBC+23, SAP22, SY21, TT22b, TT23, TYC23, TYC24, WH22a, WZSC22, WHS22, YZdCNS21, ZWZL22]. **classes** [CS20]. **classic** [CDW23, GTWJ24]. **Classical** [CLY21, AZ22, BMBM24, DY22b, JLRZ20, ZOWW20]. **classification** [BCJ24]. **cleaning** [CPGD21, DFGR20, KK20b]. **clear** [VT23]. **climate** [WDL+21a]. **clinical** [LAMC24]. **cloaking** [WYHL21]. **cloaks** [CHG21].

Close [KKCC20]. **closed** [RSA+22]. **closed-loop** [RSA+22]. **closest** [HCL22]. **closure** [BBB23, BKY21, BKMM24, HCCR22, PBJ+22, PO23, QJQW22, SSS22, TBW22, WRH20, WZSK22, WSS22, WK24b]. **closures** [MWS24, YcD20, YcD23, ZDS+21]. **cloud** [CKLM+23, RSWD21]. **clouds** [MOMS24, PM22a, PLYZN23]. **cluster** [CLC24b, DCA+22, DBC+22, SAL+20, XL24]. **Clustered** [XCL22]. **Clustering** [IL23, GHE+23, JZB+24, LKJL22, TACO22, VGG23]. **clusters** [LMUHR22]. **CMP** [TZM+20]. **CMP-PIC** [TZM+20]. **cNN** [LHCK24]. **cNN-DP** [LHCK24]. **co** [CQA21, CSM23]. **co-located** [CQA21, CSM23]. **coagulation** [Sin21]. **coalescence** [CDJM21]. **Coarse** [CPX21, EASA23, EFY23, BT21, CCAR22, DC22b, JZB+24, KK20a, KLW24, LCN20, LC23, NÅ21, RK21]. **coarse-grained** [BT21, JZB+24, RK21]. **Coarse-graining** [CPX21, EASA23, KK20a]. **Coarse-proxy** [EFY23]. **coarsening** [KT24]. **coastal** [BABD21]. **coating** [CSS24]. **Code** [FCW21, FM22, FMOJ22, FM23b, FM23a, AFF+23, GRC+22, HPW21b, LAT+22, MND+20, SOBP22, VCPGR20, ZWS+24]. **Code-verification** [FCW21, FMOJ22, FM23b, FM23a]. **codes** [CHDB23, MVK20, RMM+22, TYBW23, XLT+20]. **coefficient** [HKL+23, JWZ20, Kan20, LNYD20]. **coefficients** [BKON23, DLP21, DL21, HL20a, HL20b, JHY21, LH21, PWH+22, PZ22, SAM23]. **Coercing** [GJF20]. **coherence** [CLW+24]. **coherence-improved** [CLW+24]. **coherent** [IT22]. **coil** [GWC+22]. **collapse** [MMLL+24]. **colliding** [RE20, ZWS+24]. **collision** [AMW22, CI21a, HHK+23, HQ20, Li21, MRBC22, SHM24, TBD+20, XF23, YSC23]. **collision-based** [SHM24]. **collisional** [ASBM20, BBC21, CB23, CFGJ23, Ere22, LRW21a, WNZ20]. **collisional-radiative** [ASBM20]. **collisionless** [CEM20, TS20]. **collisions** [ALF+22, LKJL22, ST24]. **collocated** [NVK+22, PBN+21, RBD+21, XJN+20, ZJ22]. **collocation** [CL20d, CGJM21, ELSV22, FTY+22, IL23, LSS20, LPZ22, LZJ+24, LN21b, RS20c, RRHCG23, TFCH22, TJC21, WQZP20, Zha22, ZZY+20]. **colloidal** [KVQE21]. **comb** [LCF+23]. **combination** [FHJ22, FM20, PRPK23, XCZ20]. **Combined** [Mar20, AYH+21, AP22, FM23a, GZW20a, KF23, LCC+23a, USRH20, ZXMK21, ZDW22, ZZ23b]. **combined-field** [FM23a, USRH20]. **Combining** [MFK21, Poë22, ZXLH23, AL21]. **combustion** [FSDB20, TTSP21, TSP22]. **Comment** [PSL20, Pan20b, dv23a]. **Committor** [CHKL23]. **common** [SI22]. **communications** [HR22]. **Community** [BTK22]. **Compact** [Toh23, BCIT22, CMP+21, CMPR23, CWY21, CTCS22, CKPP24, Den23, DBD21, FDP20, HL20a, HRWP22, JZSX20, JZSX24, KSTT22, LLQC21, LWL+23, LLQ+24, MRYS20, PP22a, SAP22, SMW+22, SSS22, Tur24, WABK21, WK24b, Yin21, ZCY23, ZJSX22, ZJSX23, ZGX24, ZWR24]. **Comparative** [YJK24, AMK+21, BPS23, FCY+20, LPG+20]. **Comparison** [BGSP22, CCLM22, GCV22, GSFH22, HHVM20, HJH+21, ID20, LGZ21, SHM+23a, SDKL21, YJSX22, ZSKN22, BLK+23, CSM23, DY22b,

EdLCCCO24, IW23, KRL21, SLQW22, TZ20, YLS21, ZOWW20].
comparisons [PMZ+23]. **Compatible**
[YWClL22, BLBM24, FTY+22, LCDS23, PGTS21, RLD24b, WCB20, WT24].
compensators [ZLW23]. **competitive** [BDHO24]. **complement**
[HV20, KKS+21c, RWdBAG23]. **complementarity** [BE20, YZK23].
complete [BGR20, DNW23, Hua21, Pan20a, WH22a]. **completely**
[KKPB20, WWG20]. **Completeness** [DBC+22]. **completion** [DLMZ22].
Complex
[DHM21b, ASVL23, AZV23, BDF+23, CHCC23, CM20, CY22b, CFS23,
Cie20, DS22a, DHMT21, DFW22, FDH+24, GQF23, GJL20, HZ22b, HW23,
JHY21, LYL20, LLN22, MWY+20, MCGN24, MBE21, MHWY21, MRZ21,
MCI23, PTT22, PTT24, QG21, QH23, RUG20, RS20b, SV23, SRTB21, SY21,
SBCL24, TB21, WZBV20, Xia23, XCL22, YYB23, YGL20, ZSL+23, ZOG21b].
Complex-scaling [DHM21b]. **Complexity**
[ASBM20, CF20, Bre20, EMP24, JLY22, JLY23, LBN21].
Complexity-reduction [ASBM20]. **compliant** [BBKB21]. **complicated**
[SYOS19, SYOS21, TNB21]. **component**
[ADJ23, FTK23, HLA21, JZL+24, KK22a, LVK+22, LLQ+23, MS20a,
PAA21, Say22, TWY22a, ZYZ+23, ZWN24, ZSY24]. **components**
[ADJ23, GKRS22, LRT13, LW22a, Yan21b, dv23a]. **Composite**
[LHCK24, DYGC22, GZW20a, Kus20, MK20]. **composites**
[LJ20, MBDS23, ZOG21a]. **compositional** [AdDMT21, BE20, CCW20,
FMS21, JW21, LTD+21, LTT21, LYS22a, WLW+20, ZF20]. **compound**
[YLK23]. **Comprehensive** [TKK22, TZ20, HTDL24, RWDG22, WR23b].
compressibility [MRK+20a, NIT21]. **Compressible**
[LLO22b, TZM+20, ZGK+22, ARTB20, ARR23, ADP22, AK22, BL22a,
BB20a, BV20, BV21, BBD+20, BDTU24, BFNK+21, BBL23, BJL21, CPX21,
CSCL20, Cha23, CLW22, CSW+24, CLC24b, CZL20, CDX+21, CFS23,
CI21a, CJK24b, CJK24a, CPGD21, CSLC21, CRF+21, CGM+23, CCB22,
CV23, CHL20, DY22a, DVS22, DC23, DhJV+22, DJ20, DS21, FZQ21,
FZQ22a, FGKY22, FSWA22, FSWA23, FGTY23, FWG22, FL23b, FTK23,
GLF23, GQS20, GS22, GFJ+20, HBFB20, HRY+22, HLL23, HRRHG21,
HYZ22, HTLY23, HJ23, HJ24a, Iij21, JMM20, JM22, JAW+23, JKZS21,
JKJ20, KP24, KLA23, KAO+20, KK22a, KWCS23, KDB+20, KCCJ21, KJ22,
KK22b, KOS23, LB24, LVK+22, LP20a, LLNL21, LQXM22, LCR22,
LZPM22, LZ22b, LLL22, LLPL22, LSZ+23a, LXSF22, LCT23, LSY+23,
LZ23, LCWH23, LMFV22a, LMFV22b, LCP23, LAN21, LCDS23, MZI+23,
MYJ+23, MST24, MA21, MPBG23, MZC+22]. **compressible**
[MFRZ22, NGZD22, NZXM21, Nor22b, OY21, OBB22, PJW21, PKG20,
PCB21, PCB22, PR23, PBN+21, PAA23, PLL+21, PRL22, PAM23, PLKM22,
DM23b, QWZW23, RS23a, REC+22, Ran22, Ren21, RWBS21, RWDG22,
RZH20, RRFK+21, SC22a, SRD20, SKTK21, SLOZ21b, SLOZ21a, SPAC23,
TKK22, UY22, UBT22, WH22b, WZWZ23, WCP23, WA23, WABK21,
WZ24b, Xu24, YU22, YA21, YPX24, YJK24, YP22, YH22b, ZA20, ZRH20,

ZCYS20, ZMWS22, ZSZ23, ZZZH23, ZWY+23, ZFAA24, ZJSX23, ZSQ21, ZWB21, dLF23]. **Compression** [DAGL23, AMB22b, Che23a, DSBD24, DJID20, EGN23, HM22, LL24b, SC22c]. **compromise** [LW22b]. **Compton** [KKL+23, MTW23, TLWM20]. **Comput** [Abg20, ACML20a, BLL20, EFO20, GRT21, HPA22, LMFV22a, MM22, SZN20, SYOS21, STEK22, SS22b, Vre21b, Vre21a, YGJ21a, ZCQ20a, ZC22b]. **Computation** [CCER20, FSM+22, PTT24, WCA+20, AF24, BCC+24, BGH21, CL20a, CPX22, CFS+22, CT22, CBCF20, EFR21, EK21, FLOL23, Gao24, GLT+20, GKD23, KS22a, KKL+23, LPS21, LCG23, LWL+23, LM22, MM21a, Nis21, PTZ+24, REC+22, Wan23, YTWK23, YR22, ZSZ23]. **Computational** [AP23, CCE+21, CP20, KSST21, LLO22a, TACO22, YLLO23, ZZW24b, ASW21, AFGLM20, AWB+21, CAF+22, CHCC23, CL20b, DVV22, DFP+21a, DY22b, DC22b, FTPB23, GCVI22, GLJB20, GMMS22, GN23c, HYM20, HGZ23, HHRA19, JM23, KBCH20, KSW22, KRL21, KCT+23, LGV20, LWY+20, LLOL24, LAS22, LMR20, MD20a, MRT+22, MAP+20, NIT21, Nor24a, Pan20b, PWB24, WRBK20, YCM+20, ZW22, ZJSX23, ZAMG20, BCdS+23]. **Computationally** [DS23a, WLS22]. **computations** [BHW23, CE21, CFS23, EDC+23, GU20, Nis22a, NÅ21, PB22, RWDG22, RIC+22, SMLM23, VPDD22, ZJSX22]. **compute** [MCBA20, NPD20]. **computed** [TTP22]. **computer** [DEB21, LCL22a, XCL22]. **computers** [ZLC+20]. **Computing** [CSX21, LLR23, MOMS24, Sim23, WTF22, Wan22, WX24a, YL21a, YZZZ22, BCJM20, CL21, CLW20, CDLX23, DY22b, DW23, FADJ20, FO22, GCV22, MO22, SAH+22, Vev21, VCNC+21, XHC22, YL21b, YH23]. **concentrated** [BLF20, ZD21]. **concentration** [FGKY22, FB22, LBM20]. **concentration-dependent** [LBM20]. **concentrations** [APR22]. **concurrent** [DGL+22]. **condensates** [CL21, CDLX23, GC20a, LXY23b]. **condensation** [DLSvW24, MR23b]. **condensed** [RRFK+21]. **Condensing** [CLT21]. **condition** [BCIT22, BDB21, CK20, CYS23, CN21, GS22, JLC21, KRG+23, KKY22, KS21b, LAN21, LCDS23, OKTD21, QHLL20, RRPSS21, WH22b, WLL+23, XC20, ZZZH23, ZCY+21]. **condition-enforced** [WLL+23, ZCY+21]. **Conditional** [BFC23, SPGG23, TBST20, Che20, CDZ23, GN23a, HGSK22, LT20a, PZ21, ST24, TBSH21, YBST24]. **conditional-value-at-risk** [GN23a]. **conditioned** [HKJ21]. **conditioning** [BBDT21]. **conditions** [AD21, ATS24, BZ21, BFG22, BG20b, BBP24, BFS23, CHS20, Cal21, CLS+20a, CLW22, CK21, CCdS20, DG23, DN21, FZ20a, FHM24, FDP20, HP21a, HLA22b, HNZ23b, HXQL23, JPAZ21, JLLY24, KB24, LM21b, LYL20, LZ22b, LCF+23, LAMC24, MPBG23, MGA20, NFL+21b, NG20, NW22, Nor24a, PJA22, PAGJ23, PT23b, RS23b, RB24, SYOS19, SYOS21, SSMA21, Svä21, TAWD23, TNB21, TPB22, VBA22, WZW21, WKKB21, WLL+23, YLS21, YYM+22, YGL20, BRT22]. **conditions-free** [HXQL23]. **conducting** [AWP23, KLP22, USRH20]. **conductivities** [BCG+20]. **conductivity** [ILX22, JYK22, Kus20, VSB+22, YSTK20]. **conductor** [HLB20].

conductors [LL23a]. **cone** [HPA22]. **configuration** [KLP22, LW22a, MNG+22, QC23, SM21b]. **configurations** [MD20c, SVW21, YSCM21]. **confined** [CY22b, KMR23]. **confinement** [AKK20, LCPW23]. **confirmation** [NTSM20]. **conformal** [AMGCL21, SQSS20, XMY22]. **conformation** [LHXZ22]. **conformational** [KSST21]. **conforming** [BGS22a, CBCT+21, CLLL20, HSG+22, Jai22c, LOL22, LWN24, WY22b, XHY23, ZMQ24, ZSKN22]. **congruity** [RA21]. **conjugate** [CNCM21, GB22b, HGV+21, CL23b]. **connected** [Nor22a]. **connection** [SLQW22]. **connectivity** [WY22a]. **consequences** [KP24]. **Conservation** [QWZ+23, RLD24a, YWCB22, ALF+22, AFF+23, BKC22, BL22b, BBCD22, CMP+21, CJ21, Cha20, CV23, DSZ20, DLWW22, DMK+24, EC20, FTZ22, GKL21, GN20, HMO+20, Kiv21, KDL23, KNG22, KGN22, KWF20, KdL20, KV23d, LZZ21a, LSQ21, LLO22b, LLO23, LF24b, LWZ23, LD20b, LOLS23, LA21, LP20b, LSTZ21, LpW21, LLQ+24, Mar23, MYM+21, Mül23, NVPP23, PM21b, PD21, PP22c, PCA+23, QCD21, RLD24b, RBF+21, SSK20, SAP22, SLNM21, SX20, TFWX22, TKK22, Tot23, WLKR23, WX24b, XS22b, XS23, Yan23, YNT20, ZZ23b, ZHR20, ZCQ20b, ZQ20, ZWQG23]. **Conservative** [AC23, CFSH20, CBRY21a, CBRY21b, DEvW20, Edo24, EH22a, GNW22, HST22a, LM20a, LS23, RGH+22, WBN22, ZZYX20, ATCS20, BCF22, BCR22, BCR24, BL21b, CKLZ23, CBF22, CNMB20, CXZ24, CC23, CGZ23, CSS20, CLS24a, CKN22b, CCB22, CS21c, DC23, DPX23, DWM23, EJ21, EOS23, FGL+22, FTK23, GGB20, GHY22b, GTWJ24, GS23, GMSLC24, GLCS23, GLWY22, HHAFR21, HT21b, HLX21, HLA20b, HLA20c, HLA21, HLA22a, HJ23, HABG23, HJ24a, JMM20, Jai22a, JGM+22, Jen20, JFH21, JCM24, JK20, JH23, KBB21, KKS21b, KJ22, KVQE21, KLX23, LTD+21, LPL+22, LCS24, LL22, Li22, LZ20a, LRAQ22, LFZ21, LCC+23a, LCP21b, LCP23, LCBW23, MMZR21, MJJ21, MHW21, MIM20, MM24, MMYT23, NKW22, OP20, PWbCJ24, PWL+23, PCB22, PBGB21, PGCC+22, RSWD21, RRG24, SHM+23a, SRD20, SSG+20, SC22b, TSTH20]. **conservative** [TBP20, WJHS23, WKW+22, WA23, XJN+20, XLS22, XS22a, XZNZ23, Yan23, ZB21a, ZL21a, ZZN22, ZSQ21, ZTZX24]. **conserved** [KV23c, LC22, Yan21c]. **conserving** [BDZ23, BTL23, CCY+20, CCN23, Ere22, FZQ22b, Gon24, GLLM22, HR20, JL21b, KS24a, KS21c, KCCR22, LHF23, LLCJ23, LSXC20, LXY23a, Li23, LP23a, LCCL23, MM21c, MM22, PRPK23, Ran22, RC20a, San20, SL22c, SL23, SMY22, SMAY22, WCB20, YX22, YZW23, ZQYS20, ZPGR22, PTZ+24]. **Consideration** [NIT21]. **considering** [WKK24, YLLG24]. **Consistency** [BSV22, GN20, JZZ22, Pan20a]. **Consistent** [BBA22, BSK+23, HTV+22, HLA20b, HLA20c, MM21c, MM22, ASW21, BBF20, GRC+22, HZTN21, HL22a, HW20a, HGZ23, HLA21, HLA22a, HJ23, HJ24a, Iij21, Kem23, KLS+20, KHS20, KWDS22, LP23a, Liu23, Mar24, MPSP22, NFL+21a, PWL+23, PR23, PMT+22, PAA21, PCA+23, QWZW23, RKRW20, RS23b, TBP20, XLS22, XDCF21, YRHN22, YTWK23, ZLG+23, vdEW23, vdEW24].

consolidation [GdFP+24]. **constant**
[Lév22, LKJL22, RR21b, Sha21, WWZ20, XG22, ZLW23]. **constant-**
[XG22, ZLW23]. **constant-volume** [Lév22]. **Constitutive**
[LHA+21, ALC24, HZX23, HXFD20, SKCM22, WWFM22, XHD21, ZBB21].
constrain [PBF24]. **Constrained** [DVS22, RWH+24, Aca24, BS22b, CSY21, CZ23, CWX23, CBA+20, ELWY24, FCM+20a, FVM22, FVM23, GZ20, HR22, LZZ21b, LXY23b, MSIM21, MD21, SMS23, XD22, YZK23]. **Constraint**
[FCM20b, MRHR20, MCP23, BNN20, CQW24, CHZ+21, CW22a, DEvW22, KBCH20, LKEM21, LL22, LXY23a, PT23a, PGC24, WH24, ZC23].
Constraint-aware [MRHR20]. **constraint-preserving** [KBCH20].
constraints [ABBG23, HKKS21, IK23b, KK20a, LVK+22, RK21, WKA+20].
constriction [ZD21]. **construct** [YG21]. **Constructing** [LD22].
Construction [HM22, ZLB22, CF20, DCA+22, GKNÖ23, JD23, LWY+20, LT20c, MD21, WR23c, ZJSX23]. **Contact**
[FMB20, ASW21, BB23b, BHVJ22, BSW+22, BDMP22, BT24, CZZ21, FGF22, FCWT22, HZTN21, HGZ23, HYZ22, HLA22b, Ish22, KKM21, LLD20, LT20b, MCT21, PBGB21, PH22, SRTB21, SHL+20, TUCT24, WGS23, XLHB22, YLK23, ZY20a, ZR20, ZKY+20, SS22a]. **Contact-PIC**
[SS22a]. **containerless** [SDP20]. **contamination** [LZ20a]. **continuation**
[JWH20, NPD20, Yin22]. **continuity** [MMKM24]. **Continuous**
[CLP22, PR24, CHG+20, CLDC20, FCP21, KK20b, LY22c, MSC+20, MAPS20, PHHJ22, RMD20, SL20b, SL22b, VT23, ZZZG23, ZAA23].
continuous- [SL20b, SL22b]. **Continuous-time** [PR24]. **Continuum**
[LY20a, LZX20, LLZ20b, BDI+21, BCP22, BLBM24, CHS20, DGL+22, FM20, JN20, KCK21, KCP20, LSC+20c, MR22, MCP23, SWG21, XLXC20, XSF23, ZOG21a, ZYL23a, ZMTZ24, BCdS+23]. **continuum-kinetic** [CHS20].
Contour [SWM21, CA22a, GHH24]. **contraction** [EFO19, EFO20].
Contrast
[CELV21, CELV22, AH21, CG24, LFT+20, RSA+20, SP23, YLW21].
Contrast-independent [CELV21, CELV22]. **Control**
[TTY22, AHH+24, ASJ23, AR21, BGGM22, BLWL22, BPT+20, CHM24, DGW20, FVM22, FVM23, FB23, FRW+24, GCMV23, GGEJ20, HGV+21, HKKS21, HBF21, JF24, KSW22, KDL23, LT22a, LGV20, LW21, LFA21, LHL+22, MHA23, MKB24, MQ20, MN23, ND23, PRKS23, RWH+24, SEG22, SYY23, SLQW22, VFBD23]. **controllability** [GLJB20, TBM22].
controllable [WTX+21]. **controlled** [CMPZ22, JFH21, MÖR24, SL22a].
Controlling [DHR20, GPL22, LLO22b, LLO23, SRH21]. **Conv** [HZ22a].
convected [BRT22, MBAG21]. **Convection**
[MMYT23, PC22, AdS22, AG24, BHP24, CLPP24, DCGQ20, DWZ23, DMC+23, GMRS20, GHD24, GMSLC24, GFG22, GFY20, GLY22, HTLY23, HSS21, JRD22, Kiv21, LM21a, LTD+22, LFZ21, LJS+23, LAS22, MJS23, MTT+23, MZ23, MD20b, NCQ22, PKC22, SSPV20, Sev21].
convection-diffusion [DCGQ20, Kiv21, LFZ21, Sev21].
convection-diffusion-reaction [AdS22, SSPV20]. **convection-dominated**

[GHD24, GFY20, LTD+22, MZ23]. **convection-pressure** [GMRS20, HTLY23, MD20b]. **convective** [BEB+22, Edo22, HCdM23, KK22b, LLCJ23, SKTK21, SYY23]. **Convergence** [ACHG+21, CZ22a, CHM24, JLC21, SN21, TBD+20, BTCV22, CWW20, CC20, EG20, ESJ23, GLY22, HA21, HYP24, JKK20, JYY22, JW21, KML23, LKM22, LJ22, LQX22b, LQX22a, tLjTbZ22, Nis20a, Ran23, SMRW22, SMS23, WZZ23, YWClL22]. **Convergent** [JWH20, LTE23, CQW24, CX22b, HT21a, JJ21, LZZ21a, MB24, MVO+22, TPPA22, WWG20, WZ23a]. **converging** [LZY+22b]. **conversion** [AZV23]. **Convex** [ZNK23, CDW23, LCL22a, ZZ23a]. **convexification** [KNT22]. **Convolution** [HZ22a, FA22]. **Convolutional** [DC22a, Chi23, GSW21, GCSH22, LC20, LPBK23, PGR+23, PMH24, QCZ22, WWFM22, WCZ22, ZYL+23b, AM22]. **convolutions** [Ale23, DSBD24, PLYZN23, TPPA22]. **cooled** [MCBA20]. **coordinate** [CLT21, DV23b, KRG+23, LST24]. **coordinates** [Bal21, BSP21, CLS20b, GKRS22, HM21a, MT21, PWbCJ24, PA20, DM23b, QSZB20, SOV21, SK23a, SLOZ21b, WWZZ24a]. **copolymer** [BCC+24, LCC+23b]. **copolymers** [BCL+23]. **core** [CLXS23, LFL+22]. **coregionalization** [XKZ21]. **Corner** [MGA20, EGN23]. **corners** [AuIL20, DHM21b, LL23a]. **corona** [MFG22, MP21]. **coronaries** [DFP+21a]. **Corrected** [IRT22, ZA20, BST23, HKW24, HHL20, Kiv21, PA21]. **Correcting** [JL22, ZMK24, LCG22a, STB+21, WDK22]. **correction** [AÖR22, AF20, BLL19, BLL20, CORJ+23, sCpLL+22, CCH20, DY22a, Edo24, EOP20, GYWH20, GF21, HMV22, HXX23, HPPZ20, LRT+22b, MÖR24, MW22, Nis22b, PEA20, PBJ+22, PKL+21, QLY21, Sti20, YYLY22, YOH+20, ZS22a, ZWY21, ZJ22, ZZ23a, ZY24]. **corrections** [OLP23]. **corrector** [CEL+20, TC23]. **correlated** [ACDV24]. **corresponding** [HLL23]. **Corrigendum** [ACML20a, BLL20, EFO20, GRT21, HPA22, LMFV22a, MM22, SZN20, SYOS21, STEK22, SS22b, Vre21b, Vre21a, YGJ21a, ZCQ20a, ZZW24b, ZC22b]. **corrosion** [GJLD20]. **cosmic** [DW20a]. **cosmological** [BL21a]. **Cosserat** [AEGV22]. **cost** [BB20a, DDR22, HYM20, KSS21, RRN23, ZT23]. **cost-aware** [RRN23]. **cost-effective** [BB20a, DDR22]. **Coulomb** [ALF+22, HHL20, HL22b]. **couple** [YGW+20]. **Coupled** [ACML20a, ACML20b, WCA+20, ZQC+23, ADK+21, ALF+22, BGQ+23, CBQ21, CYS22, CBBI20, CIMG21, DEvW22, FSW22, GLSZ22, GNF22, GLJB20, GJW24, GAB22b, GAC20, GN23c, HMO+20, HSS21, JHT23, JLCT22, KGBT20, KSHJ20, LZT+23, LFP+21, LLF23, LSZ23b, LHFH20, LCJ+20b, MD20a, MLM+21, MWZ23, NG22, NAZ22, NMR+22, OYK+22, PEA20, PA21, RSA+22, RLH22, RR22, SLF23a, SGW+23, SYL23, SML20, TV22, TWY+22b, VMO21, WF23, WZSK22, XL24, Yan21b, Yan21c, YTK22, YH22a, ZML20, ZHPZ21, ZJ21]. **Coupling** [BSZ+23, CDBS21, FMT23, Li21, SWG21, SWG+20, SGW+23, WW20a, ABH21, AXWF23, AWB+21, BGS22a, BDWC23, BGSP22, BHK+22, CAG20, CZ22b, CSMH24, CS22, DMN22, DS23a, GR24, GJW24, JHJ20, KC20b,

LG22, LW22b, LOL22, LCWH23, LW20b, LMN20, MPSP22, MZC+22, MP21, MMZZ22, RG22, SWHJ22, TUCT24, YZH+23, YKdHC20, ZZML20, ZQC+23, ZMZY23, ZLW+21, ZMW23, van22]. **Coupling-strength** [FMT23]. **Courant** [OKTD21]. **Courant-Friedrichs-Lewy** [OKTD21]. **CoV** [KSST21]. **Covariance** [HNR23]. **covariant** [Bal20, OP20]. **CPR** [YZK23, ZLW+22a]. **CPU** [KNS21]. **CPU-time** [KNS21]. **crack** [CC22a, FGD+21]. **cracks** [KLP22]. **creep** [KH21b]. **creeping** [GDF21]. **criteria** [FMT23, ZRH20]. **criterion** [DCA+22, PBF24]. **critical** [CDL21, LSZ+23a]. **critical-adaptive** [LSZ+23a]. **criticality** [KWMF22]. **Critique** [TNB21]. **cross** [CCAR22, DC22a, EKPS23, GGB22, HKW24, Ume23]. **cross-diffusion** [HKW24]. **cross-helicity** [GGB22]. **crumpled** [AR22]. **crystal** [FGD+21, GB22a, SVW21, YH22a, YK22]. **crystals** [BW20, CMSS21, QAS20, WL24b, ZZY+20]. **CSF** [BTL23]. **cubature** [Gla21, HJK+21]. **cubed** [CLXS23, GCDT22, LP20a, SGT23]. **cubed-sphere** [GCDT22, SGT23]. **cubic** [BNP+22, YJK21]. **cumulus** [LM21a]. **cure** [ARR21, FAHA20]. **curl** [BDP23b, CPGD21, DFGR20, LXY23a, PGS22, RCSS24, YRC+21]. **curl-free** [LXY23a, RCSS24]. **current** [HLB20, Heu21]. **currents** [IKP22, MFRZ22]. **Curtiss** [SKCM22]. **Curtiss-based** [SKCM22]. **curvature** [AXWF23, BTCV22, BDMT22, FO22, LCG22b, LCG23, LW21, ÖL23, ZEG20, ZAMG20]. **curve** [LZS22a, SM21a]. **curve-shortening** [SM21a]. **curved** [AF20, AFGLM20, ATS24, CBBI20, CI21b, CRF+21, Coc20, CMS23, CNCM21, GTKA20, LL23a, PGP+23, QERT20, RPA22, SOSM20, YLK20, YK20b, ZL21a, ZL22, vdEW24, PGP+23]. **curves** [JL21b]. **curvilinear** [AD20, CTCS22, CDN+22, IMJ20, KK21, LM20a, LWN24, MLL+24, NKW22, OP20, PA20, QSZB20, SC22b]. **cusp** [TLHL23]. **cusp-capturing** [TLHL23]. **Customized** [ZDS+21]. **cut** [BL22a, BFG22, BG21, BL21b, CHMP24, EdCC+23, FZ23, XS20, XLS22, YWN20]. **cut-cell** [BL21b, CHMP24, XS20, XLS22, YWN20]. **cut-cell/volume-of-fluid** [XS20]. **cutoff** [HQ20]. **CVT** [MN22]. **cyclic** [GSOM23, VRAM21]. **cylinder** [CCMC20, CPGD20]. **cylindrical** [BSP21, FLW20b, GKRS22, KJB+24, PWbCJ24, SLOZ21b].

D [RG22, WZC21, GDAP20, An21a, ATCS20, AZV23, AF23, BGH20, BAK22, BTZ22, BRZ+23, BGS22a, BTCV22, BDWC23, BEP+20, BP21, BLM22, BJL21, CHMP24, CGL+23, CDT22a, CMH20, CDL21, CG23, CFS23, CRF+21, CIMG21, CNCM21, Da22, DT21a, DFW22, FTPB23, GGCvR22, GPL22, GTDB22, GBLT20, GP23, DCC+24, GCSH22, GDB24, HZTN21, HLB20, HBF22, HNF+21, HP21b, ID20, IMJ20, JGvR23, JRY+20, KSTT22, KCS21, KKA24, KLZ23, KKL24, LPS21, LP20a, LLD20, LDLW21, LZH23, LL24a, LLCK20, Mar24, Mar23, MFG22, MPSP22, MSIM21, ML20, MM23, MRZ21, NFL+21a, OLS21, Oru21, PT23a, PWH+22, PTT22, PTT24, PBVC22, PCD23, RG22, RV22, SB23, SRD20, SLOZ21b, SLOZ21a, TWY22a,

TCW24, TBM22, Tlu22, TNF23, UY22, WCZ+20, WDS22, WY22a, WY22b, WL24b, WGU+22, WZBV20, WK21b, XBRL21, YU22, ZCY24]. **D** [ZF20, dLF23, dSdCdMC+24]. **D-1D** [BGS22a]. **D-2P** [CDT22a]. **D-2V** [ATCS20]. **D-axisymmetric** [HBF22]. **D-RBF-PU** [MM23]. **D-var** [PT23a]. **D3ADI** [JLC21]. **D3Q19** [BSR20, GFJ+20]. **D3V** [SMY22]. **Dahlquist** [Giv23]. **dam** [MMSW22]. **damage** [HDML23, KBG23, ZOG21a]. **damaged** [LLZL20]. **damp** [DNO23]. **damped** [KS22a, SQSS20]. **damper** [SPAC23]. **damping** [CCWX22a, CBF22, KSTT22, KF23]. **DaPINN** [GYC+23]. **Darcy** [LGZC24, AKWY20, BMQ20, CY22b, FGTY23, GHHR22, LYZW21, LGZC24, NFA21, QHLL20, Tlu22, XHY23, ZML20, ZYL+23b]. **Darwin** [Bar22]. **DAS-PINNs** [TWY23]. **Data** [AHH+24, ASSZ21, BT21, BBH23, CPH+22, CFGJ23, DDP20, DLMZ22, DOL23, Gri20, GLLB20, HSMR20, HZY22, KV20, KFP+22, KLF22, LJ23, LL21c, LT24, MH22a, PRKS23, PR21, WX20, YKH24, ZJ23, ALC24, ABOS22, AMW22, AB22, AMB22b, BJ21, BS22b, Ben23, BSA21, BSA22, BT22, BCSK21, BPJ22, BBA22, CMH20, CZ23, CGLZ23, CNBH23, CHZ+21, CFM22, CLGA24, CWT24, CLP22, CCXX23, DD22a, DSBD24, DH24, DCSG22, DJID20, EHL+20, FFGRLS+20, Gla21, GCC21, GN23b, HRG+23, HM22, HBEK23, HPS23, HPKS23, HYZH22, ISM+23, JYK22, JD23, KTDG22, KH21a, KHM+22, LWR+24, LSS20, LCWJ20, LH21, LGMV22, LO23, LLR23, LHA+21, LS23, LZJ+24, LD22, LHW+23, MPZ24, MK20, MYM+22, MM21a, MRG21, MCI23, Nor24b, PGR+23, DAGL23, PLV20, Per23, PBJ+22, PTZ+24, PBJ23, QH23, RMN+24, RRL+23, SWG21]. **data** [SSW22, SSG21, ST24, SKT23, SE24, SFDW23, TLD20, THH22, WDL+21a, WCM+21, WXZ22, WZZ23, WSG+24, WK24a, XZW21, XZWH22, XD22, YMK21, YG21, YBST24, YYL20, Yin22, ZB21b, ZDS+21, ZL21d, ZL21c, ZXLH23, ZLL23, ZC22b, ZC22c, ZO21]. **Data-based** [Gri20, Ben23]. **Data-driven** [AHH+24, ASSZ21, BT21, BBH23, CPH+22, CFGJ23, DOL23, GLLB20, HSMR20, HZY22, KV20, KFP+22, KLF22, LJ23, LL21c, LT24, MH22a, PRKS23, WX20, YKH24, ZJ23, ALC24, BSA21, BSA22, BBA22, CHZ+21, DH24, GQR23, GN23b, HRG+23, HPKS23, ISM+23, JYK22, KH21a, LO23, LHA+21, MM21a, MCI23, PBJ23, QH23, SWG21, SSG21, THH22, WDL+21a, WCM+21, WZZ23, XZWH22, XD22, ZB21b, ZDS+21, ZL21c, ZLL23]. **data-driven-physics-constrained** [CZ23]. **data-flow** [RMN+24]. **data-informed** [PBJ+22]. **database** [CBA+20]. **Davidson** [KBB+20]. **DC** [AP22, MP21]. **DDADI** [JLC21]. **DDADI/D3ADI** [JLC21]. **death** [CMPZ22]. **debris** [GDBFN+20]. **Debye** [ER22, PBCL20]. **decaying** [GLWY22]. **December** [Ano20c, Ano20o, Ano21c, Ano21o, Ano22c, Ano22o, Ano23c, Ano23o]. **deck** [EGN23]. **decoder** [PGR+23]. **decomposed** [DS23a, XLL24, ZSST23]. **decomposing** [FCBM22]. **decomposition** [ADK+21, AMGCL21, ASVL23, BCG+20, BGS22a, BHP24, CG24, CZHY20, CYYS22, CCH+23, CCCH23, CDW23, DMRG22, DGS20, EH22a, GLSZ22, GTDB22, HSB20, HTRC23,

JL22, JTT23, Kho20, KLF22, KCCJ21, LPL+22, LJ22, LGMV22, LAT+22, LXZ23, LLLL23, LZ20a, LT20c, LT21, LYH23, LL24b, LLCK20, MDG20, MH22a, MSWH22, NKT21, NS23, DAGL23, QCWC23, QHLL20, RWH+24, RHG22, RBPRST20, SJK21, SBVW20, Tlu22, TY24, TGS+22, Vab23, VEC21, YhCdJ+23, YZZ24, ZTS20, ZMG+22, DJ22, DJ23, JADS21, KUO23]. **decompositions** [PJZ+23, BCdS+23]. **deconvolution** [XBD+20]. **deconvolution-based** [XBD+20]. **Decoupled** [ZY20b, CY22b, LYZW21, WZSC22, WGY+21, WHS22, Yan21c, YTK22, ZHY22, ZH21]. **decoupling** [LHXZ22, Vas23, YH22a]. **decreasing** [FY22, JL21b]. **Deep** [BCSK21, CCLL20, CNBH23, CCWX22b, CW23, FWNT21, FCL23, HGV+21, HRMY20, HWY20, KL20, LJ21, LZY22a, MHWY21, ND23, ÖL23, PS22a, SSTD24, TTY22, WCC+20, WP21, XKZ21, XZW21, XDCF21, ZCZ22, ZNCZ+21, AMM23, Cai22, CCL22, CJSZ23, Cha21, CZ23, CXZ24, CX21, CLGA24, CDZ23, DN21, FY20, FFFY20, FSWA23, GZ20, GTWJ24, HMMO20, HNS20, HLZ20, HPH+23, HPKS23, HXFD20, JKK20, KTDG20, KTDG22, KK20a, KTBP20, KM22b, KS22d, KKY22, KGSK23, KBC22, LLSX23, LC20, LY22b, LHA+21, LHW+23, LZCC22, MMS24, NCC21, NPP24, NT23, NPL+24, OKTD21, PKSH23, PHX23, RRL+23, Sim23, SMF20, TLD20, TWL22, TWY23, THKT21, TC23, VAK+23, VRK+21b, WL20, WZ20, WCL+20, WCF22, WWFM22, WXZ22, WX20, XZ22, XSF23, XCZ20, XZRW21, YHC+22, YJP23, YCC+22, YYD+22, ZZZ22, ZZSL24, CW23, FB22, JADS21, TC23]. **Deep-learning** [MHWY21, XZW21, KTDG22]. **deep-learning-based** [TLD20]. **Deep-OSG** [CW23]. **DeepBND** [RDAB23]. **DeepM&Mnet** [CWL+21, MLM+21]. **DeepMoD** [BCSK21]. **DeepONet** [LMZ23]. **DeepONets** [WP23]. **DeepParticle** [WXZ22]. **DeepStSNet** [LHW+23]. **defect** [CCH20]. **defective** [QHLL20]. **defects** [DGL+23, GB22a]. **deferred** [HPPZ20, Sti20, ZS22a, ZWY21, ZZ23a]. **defined** [BLWL22, Say22, SBCL24, XY20a, ZY24]. **definite** [SRM24, XHD21]. **deflation** [DV22, GWY21, KAC22, RSO20]. **deformable** [BHVJ22, BDMP22, KV23c, KB22b, NZXM21, XHS21]. **deformation** [AP22, BNN20, CCGC23, CRF+21, DZJ22, FTP20, FZS+21, GHH24, JAW+23, KH21b, LGY+20, LM23a, ML23, MRL+23, XHZ22, ZHPZ21, ZJ21]. **deformation-fault** [ZJ21]. **deformations** [BZ21, BGNY22, BV22, WGS+20, YB22]. **deforming** [HST22a, RMWS21, SOSM20]. **degenerate** [BL21b, Kan20, Le21a, TZ21, ZX22, ZTZX24]. **degradation** [CGJM21]. **degree** [PZZ+23]. **DEIM** [EAK20, WDH+21]. **delay** [ZLQS24]. **delay-free** [ZLQS24]. **DeLISA** [LZY22a]. **Delta** [FGZ20, FCY+20, Kho20, RKVV20]. **delta-Eddington** [FCY+20]. **dememorization** [ELL+23]. **dendrite** [JZK24]. **Denoising** [PTZ+24, GN23b]. **dense** [AFF+23, KVQE21, LY20a, PM21a, ZWS+24]. **dense-to-dilute** [PM21a]. **densely** [KKM21]. **densities** [GHHR22, GQS20]. **Density** [KC20b, YB22, ZNCZ+21, AFL22, AR21, BCC+20, CL20c, CSMH24, DC21,

GGB20, GMNY23, GCL+22, HPW21a, HZHL22, KS24b, LRT13, LCSZ21, LWF23, LRT+22b, LTBM23, LP20b, LN24, MRK+20a, PHP21, RZH20, RPDO+21, SHL+20, TWL22, TMG20, VGK21, WQ20, WF23, WLKR23, WGY+21, YLW21, YJK24, YKFH23, ZLG+23, ZWLG23, ZJ23, ZXD22, ZOEL20, dv23a]. **density-ratios** [LTBM23]. **dependencies** [VRAM21]. **dependent** [AH21, AFL22, AFGLM20, AMB22b, BDS23, BG20a, CZ22a, DGW20, DH24, FPT23, GMB+22, GR21, HHK+23, HPA22, KCS21, LLS24b, LBM20, LKG+20, NDH20, Nis23, PB20b, PMF20, PM21b, PH22, PTT22, Qia22, QHLL20, QCZ22, RGH+22, RV20, RS23b, STEK17, STEK22, Shi23, VdGP20, WQ20, WWZZ24a, WCBQ24, XSC21, Yin21, ZSST23, dZBDMC24]. **depending** [GQS20]. **depletion** [CS22]. **Derivation** [SEG21a, EdLCCCO24, SL20b, WLZP21]. **derivative** [CCdS20, GKNÖ24, HNS20, KBCH20, ORCVG24, SMR22, TCW24, YS22, ZS22a, ORCVG24]. **derivative-free** [HNS20]. **Derivative-Informed** [ORCVG24]. **derivatives** [Gao24, MR23a, Mon21, SAM23, TBD+20, VGG23, ZLW23]. **deriving** [CC22b]. **descent** [GHH24, WK21a]. **described** [BG20c]. **description** [AHR20]. **descriptors** [NR23]. **Design** [LFP+21, LZLZ21, WMTQ20, WYHL21, ARC22, BJW20, CHG21, Da22, DGGL22, DJ20, FSWA22, GWC+22, LPM23, Liu23, LCC+23b, NYZ21, PWL+23, RtTBI20, TBG20, WQ20, YXL22]. **design-dependent** [WQ20]. **Design/analysis** [WMTQ20]. **designing** [WTX+21]. **detailed** [LWW21, SYL23]. **detecting** [KK22a, WZ23b]. **Detection** [KLA23, NKT21, BZSF20, GQF23, HRMY20, HCL22, KYO22, NKA+20, PB20a, SPdF20, ZSY21]. **Determining** [KKN+22]. **Deterministic** [JBF21, HJLZ23, MR23b, TLWM20, TRC22]. **detonation** [JLL22]. **detonations** [OGG20, WTZB23]. **developing** [HZX23]. **Development** [CWY21, CI21a, HCL20, JYY22, PCB21, PGM22, RB21, LMHL21, WZSK22, WYS20, ZAW+20]. **device** [ZWZL22]. **devices** [AKK20, WYHL21]. **DG** [ARTB20, CH24, DCGQ20, EH22a, HRRHG21, KGBT20, KBCH20, LWYY22, LCDS23, MST24, Mar20, MAPS20, OBB22, RAB23, WGU+22, YOH+20, vGAtTBI24]. **DG-FV** [MST24]. **DG-mimicking** [MAPS20]. **DGDD** [RBF+21]. **DGSEM** [FBG20, Ren21]. **Diagnosing** [NNL+20]. **diagonal** [KCS21, LJ22, MZ20, MHY20]. **diagonal-norm** [MZ20]. **diagonalization** [WZ21b]. **diagonalized** [PJBB20]. **diagram** [GQF24]. **diagrams** [MCBA20]. **diaphragm** [TVL+22]. **Diatomic** [WZX24, XCL+21, HGH20, KJ24]. **diblock** [BCL+23]. **dictionary** [MO22]. **dielectric** [CCER20, LMUHR22, WZC21, WSAZ22, ZR21, ZWN24]. **diffeomorphic** [MHA23]. **Difference** [MDB24, RHD+24, VVRWT21, ÅAL+21, AT20, AD20, ACR23, BHNS23, BKC23, CCJW24, CLS+20a, CBF22, CHF21, CWX23, CLP21, CLPP24, CSS24, DMN22, DBD21, DSZ20, DYMC20, DT21b, DT22c, DFW22, EWN+23, FZQ22a, FZ20a, FZ20b, FHM24, GvR24, Gao22, GLY20, HT21a, HPA22, HZD21, HL20a, HCL20, HXX22, HSG+22, Iij21, JTK22, JLYH24, JLY22, KSTT22, KLN20, KK22a, KCD+23, LL21a, LG22, LL23a, LG21, LZ22a, LCR22, LSZ+23a, LH20,

LRAQ22, LWZ23, LRW21b, LCN20, LCN24, LSZY20, Liu20b, LM20c, MLL+24, MJS23, MR23a, PP22b, PPP21, PTT22, PTT24, PGP+23, QCD21, RFZ22, RZ23, RAZA21, RMWS21, SOV21, SK23a, SGT23, SSG+20, SLNM21, SAM23, SN21, TCS22, TAWD23, TB23, TVL+22, WCF+21, WZTZ21, WVRLG23, WK24b, Xia23, XH24, XBRL21, Yan21a, YLK20, YLNT20, YLS21, YWLL21, YJK24, ZCZ22, ZA21, ZX22, ZZ23b, ZDT23]. **difference** [ZZ24, ZJQ+24, ZZ23c, ZSQ21, ZLW22b, ZL22, ZPK22, Bat20b, Bel24, VPDD22]. **difference-finite** [LSZY20]. **difference/finite** [YLNT20]. **differences** [AD21]. **differencing** [AAKW20, BDBB22, FY22, MGRRVR23, RRG24, SZQS23]. **different** [BBL23, CHZ22, GM23b, GHHR22, GCD20, KLA23, LM21c]. **differentiability** [JF24]. **Differentiable** [FW24, HF23, LRT22a, LR24]. **differential** [AAMPR24, BFM21, BM21, BGH21, BGS+22b, CMR21, CCWX22b, CDX22, CS24a, CCXX23, CdS22, DM21, EL24, FFFY20, GLSZ22, GW23, GMA23, GHNS21, GW20, GYZ21, GLT+20, GWZ22, HNS20, HDML23, HKL+23, HHLS22, JLY22, JL23, JLY23, JLLY24, KB24, KTBP20, KDL23, KCD+23, LWR+24, LHCK24, LT22b, LBT+23, LYS+22b, LSY+23, LZCC22, MOMS24, MB21, MZ23, MF24, NMN23, NPP24, NFB23, OPM22, OWHN22, PB20b, PHX23, SC23, SX20, TL20, TWY23, TLKK23, TZ24, TBST20, TC23, WX20, XZW21, YGL20, YNDH22, ZXMK21, ZBYZ20, ZZZ22, ZCZ22, ZQYS20, ZL21c, ZSM22, ZZZG23, ZHH+24]. **differentiate** [ÅIN21]. **Differentiation** [CHDB23, HHN+21, LST24]. **Diffraction** [PM22b, PLM23a, CEW23, CDL21, LSW20]. **Diffuse** [ZMWS22, CSM23, DSPB22, JMM20, JAW+23, KB22b, LCCM22, MIM20, YTWK23, YLK23, YGL20]. **diffuse-domain** [YGL20]. **diffuse-interface** [JMM20, JAW+23, YLK23]. **diffused** [PBM23]. **Diffusion** [EDC+23, MSIM21, MD20b, AdS22, AdDMT21, AG24, AWP23, AAKW20, ARR21, BFP21, BL20, BS22a, BFG22, BHP24, CC24, CZ22a, CSS20, CY21, CLPP24, Coa22, DES23, DDR22, DCGQ20, FM20, FPT23, FOL23, GYWH20, GTDB22, GLY22, HLZ20, Heu21, HKW24, HL22b, HCdM23, HL20b, HABG23, JL21b, JTZ22, JRD22, KIHB21, Kiv21, LCS24, LTD+22, LB21, LLO22a, LZ24a, LW20a, LSLH20, LM20b, LFZ21, LWW21, LCF+23, LJS+23, LCWH23, LLOL24, LY23, LX21, MYL21, MW22, MTB22, MST23, MFdSS24, MWZ23, NCQ22, PWH+22, PWK20, PPHO22, RPA22, RBC+23, Sab20, SSPV20, Sev21, SWF21, SLF23b, SMR22, SFNMF+21, TZ21, WZ21a, YYLY22, YW22, YAX20, Yua21, ZJZK20, ZWZL22, ZMWS22, ZLS22, ZTZX24]. **Diffusion-redistanciation** [MSIM21]. **diffusiophoretic** [LHM20]. **diffusive** [BM24, JJ21, LPZ22, MRBS22, PCQL20]. **digital** [HP21b, TSS+20]. **Dilatancy** [BFNK+21, GDBFN+20]. **dilute** [PM21a]. **dimension** [CDZ23, Der23, GYC+23, KSHJ20, KWS22, LCH20, Lem20, LT23, PBCL20, VACE21, ZYD20]. **dimension-augmented** [GYC+23]. **Dimensional** [SFP+20, AG21, AB24, AdDMT21, ALFN22, ARGK22, AAKW20, BCWD21, BL20, Bal21, Bar21b, BDL+20, Bre20, BPVE24, Cam21, CPX21, CORJ+23, CCM+22, CSW+24, CLC24b, CNBH23, CL20b, Che23b, CSS20, CLS20b,

CLJ+20, CWT24, CJK24a, CS21c, DEN22, DY22a, DM21, DV20, DV21, DZ22, DZ23, DJID20, EHW21, EMP24, EHL+20, EMS+21, FSW22, FZ20a, FTZ22, FB23, FWG22, FGL+22, FLW+23, FLS23, GHY22a, Gao22, GW23, GR24, GKNÖ23, GHP+23, DCC+24, GYZ21, GZ21, GMJ24, HLZ20, HZD21, HRR21, HGSK22, Hua21, HSG+22, IL23, JPAZ21, JLL22, JLY22, KTBP20, KV20, KYO22, KR23, KZC23, KLG+22, KKY+21, LL20, LCG23, LCS24, LSW20, LWR20, LDM+21, LZS22a, LZS22b, LY22a, LJZK21, LLR23, LRT22a, LR24, LY20b, Liu21, LPZ22, LC23, LCP+24, LZJ+24, LD22, MDG20, MCBA20, MF24, ORCVG24, OWHN22, OYK+22, PB20a].
dimensional
[PWbCJ24, PJA22, PJR23, PMF20, PLV20, PRL22, PGMTP23, QPW21, QSZB20, RZ23, SL20a, SBH21, SOV21, SWM21, SKCM22, SDA+21, TTY22, Tak23, TL20, TWY23, TTP22, VCNC+21, WGS23, WX24a, WC23, XZ22, XS20, XLZ21, XCL22, XY20b, XZWH22, XHY23, Xu24, XM20, XZNZ23, YLNT20, YK22, YPX24, YRC+21, YMY+21, YWLL21, YSN23, YZW23, YNT20, ZBYZ20, ZZZ22, ZCZ22, ZCH22, ZCY23, ZGLL20, ZFG21, ZWZL22, ZC22a, ZPGR22, ZXY22, ZABP+24, ZSY21, ZQS+21, ZQL+22, aKAK20].
Dimensionality [PBJ23, KEML+24, Mis23, WDH+21]. **dimensionally** [BVRS22, PR23, SBL22]. **dimensionally-consistent** [PR23]. **dimensionally-reduced** [BVRS22]. **dimensionally-split** [SBL22]. **dimensionless** [ZIMA24]. **dimensions**
[BY20, CJLL21, CDW23, DLL22, FCBM22, GL20, GHTC21, JWZ20, KKA24, KKCC20, LZC+20, MTO21, MVK20, PAGJ23, Sel22, SSPV20, SH22, Suk23, TYC24, TRC22, TPYX22, XY20a, XHC24]. **Diminishing** [CF21, DLY22, Tot23]. **dioxide** [SFP+20]. **DIPS** [MPIG23]. **Dirac** [HPA22, AFGLM20, BHW23, CL20a, CY23, Kho20, MR23b, YX22, Yin21].
Direct
[EGTC+21, GF21, JG21, KOM+22, KSK+24, KD20, LMZ21b, LL24a, QAS20, SXZ+23, VRK+21b, WCA+20, WGB22, YK20b, ZJSX23, AWB+21, BBGT21, CPX22, CB23, Chi23, CHZ22, DY22a, FSB+20, GBC+20, GA24, HM21a, HLY20, KKM21, LCP21a, LHM20, MTT+23, OGVM22, QLY21, RKRW20, SH23a, SGPW21, SES21, TUCT24, WCP23, WC23, ZXLH23, ZB21c].
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[BB20b, CNC21, HLL22, KK22a, LXSF22, WTZZ23]. **Discontinuity-driven** [BB20b]. **discontinuity-resolving** [LXSF22]. **Discontinuous**
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Mar20, RSSK24, ZYD20, AdS22, AÖR22, ARR23, ALM23, AMB22a, AMM+20b, AMM20a, ADM22, AHWZ20, BL22a, Bal21, BZSF20, BCF22, BGGM21, BKY21, BWG+20, BBMA23, BDP23b, BV22, BX20, CHS20, CQY21, CBQ21, CK20, CLW22, CLDC20, CS21b, CZL20, CBBI20, CI21a, CI21b, CJK24b, CJK24a, CX22a, CMRR21, CSS24, CLS24b, DY22a, DLP21, DCGQ20, DH20, DLYZ23, DLSvW24, DY22c, DY22d, DSZ22, DYZ24, DT20, DZGP24, DK21, DW22, EM20, FMWK20, FHWK21, FGKY22, FDP20, FL23a, FX22, GK20, GAB22b, GC20b, GAC20, GHTC21, HMV22, HYQ20, HRY+22, HTL21, Hig22, HQ22, HR20, HLY20, HLQZ23, HYH24, JHY21, JTW22, JKJ20, JK20, JJ21, JF24, KGBT20, KR23, KMF23, KSBG20, LCS22, LSXC20, LWR20, LLNL21, LLL22, LGZC24, LCT23, LC24, LM20a].
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[LSZ21, LMFV22a, LMFV22b, LAN21, MYJ+23, MN21, MÖR24, MRK+20a, MRK+20b, MRK+20c, MOBR22, MGMV22, MCF23, MFdSS24, NdlLPL21, NMR+21, NMR+22, PP22a, PWH+22, PBN+21, PJR23, PH21, PS22b, PKL+21, PLKM22, PD21, PGCC+22, PGMTP23, PPB23, QJL23, QLY21, RMD20, Ran23, RWdBAG23, RLD24a, RBD+21, RRHH+21, RRFK+21, Sar21a, SLWRG21, SL20b, SL22b, SMAY22, SCdHJ20, SKCM22, LF24a, SX20, SSX22, TCS22, TJ22, TCR+20, Tow20, TH23, VGG23, VCNC+21, VCCN+23, WR23a, WKW+22, WX24b, WZL21, WBH+24, XSSS22, XS22a, XS22b, XS23, YYX21, YX22, YK20b, YKFH23, YH22b, ZSP20, ZB21b, ZS22a, ZCQ19, ZCQ20a, ZCL20, ZC23, ZZYX20, ZQS20, aZWY23, ZZL24, dLF23, vGAtTBI23, AM22, BRT22, DHR20, PKG20].
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[AFK+23, CJ21, KR22, KSK21, RHD+24, SMRW22, WJHS23, ZG20, AMG23a, BO22, BGR20, Bel24, BZ23, BPJ22, BBL23, Cal21, CFM22, DD21, DNO23, DOQ23, DC22a, FFY21, GKL21, GHD24, GTWJ24, HLB20, HHS22, HSG+22, JLL22, JP23, KBCG20, LW20a, MJS23, MMLL+24, MBBV22, PWX24, PAA23, PM23, PRL22, PAM23, PGS22, RR22, SM21a, WY22a, WY22b, XY20b, XHY23, YGW+20, YZSD21, YH22a, ZCYS20, ZA21, ZQC+23, ZWLG23, ZR24a, BBV23, DSG+22]. **discrete-equations** [PAA23].
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[AÖR22, BS22a, BGH20, BO22, BR23, BDMP22, BMQ20, BRS22, CEL+20, CCPS23, CHG+20, CLS+20a, CZLC22, CS23, CMS+22b, DSBFN+20, EDEV23, FQSW23, FGTY23, FOL23, GA20, HMO+20, HLX21, JK20, JJ21, KNLB21, KSW22, LL21a, LRT+22b, LLQ+24, MSC+20, MOBR22, MPIG23, MMRP22, PKC22, Ran23, RC20b, RN23, RN24, SKT20, SKTK21, USRH20, WJHS23, WZ24b, WLZ21, ZS22a, ZPGR22]. **discretizations**
[ALMF23, BDS23, BTCV22, BL21b, CG24, CELV21, CELV22, ELL+23, EWN+23, FMWK20, GNZ23, HSW21, KB24, KK20b, KdL20, LPH+24,

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[KV23d, SYAM23, AK22, sCpLL+22, CDX+21, DhJV+22, DNO23, Edo24, FFRT+21, FAHA20, FAA20, GMMS22, HYQ20, ITK24, JP23, KD21a, LFA21, LYZW21, LCR22, LSZ+23a, LXSF22, MM21b, MD20b, MFdSS24, PLL+21, RKVV20, SEG22, TFWX22, TSTH20, WTX+21, WZTZ21].
dissipation-adjustable [DhJV+22]. **Dissipation-based** [KV23d, JP23]. **dissipative** [DWZ23, GS20, KK22a, KEML+24, Li22, LL21d, MHW21, MBM+23, SBL22, TKK22, TCS22, YD20, YJP23, ZS22b, ZZSL24]. **distance** [ABBG23, GCV22, Nis21, WXZ22]. **distillation** [KKM21]. **Distributed** [HLB20, KSHJ20, KHS20, SGPW21, TEA+23, ZLC+20, ZO21].
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[STG20, AÖR22, Ara20, AR20, BCJM20, Cai22, KKS21a, KKS21b, LRAQ22, SWG21, ZCYS20, ZCCN23]. **distributions**
[HGSK22, LLR23, TT20, ZOG21a]. **disturbance** [PA21]. **div** [BDP23b].
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[CBCT+21, DW20b, EOP20, FZB+23, Fu20, GEvWD22, KK20b, LZZ21b, LZLS21, LP23b, RCSS24, SCS22, Toh23, WDS22, vdWvBAA24].
divergence-conforming [CBCT+21]. **divergence-free**
[DW20b, FZB+23, Fu20, LZZ21b, LZLS21, RCSS24, SCS22, Toh23, WDS22].
divergence-preserving [GEvWD22]. **dividing** [HST22a]. **DLGA** [XCZ20].
DLGA-PDE [XCZ20]. **DLM** [PC23]. **DLM/FD** [PC23]. **DNN**
[CCXX23, LXZ23]. **DNS** [HW20a, PO21]. **do** [MX22]. **Domain**
[OLP23, XLL24, ABH21, AMG23b, AMGCL21, An21a, AZV23, BDT21, BGH20, BGS22a, CG24, CZ22b, CYYS22, DMRG22, EJ23b, GvR24, GSW21, GTDB22, GPS20, GMJ24, HLH21, JTT23, KP23a, KS21b, LJ22, LLLL23, LZ20a, Liu20b, LL24b, LLN22, LLCK20, MDG20, MPSP22, MP21, MMRP22, OYK+22, QCWC23, QHLL20, RC20b, SGPW21, SJK21, SSG+20, SNW23, SBVW20, Tak23, TBM22, TB23, TPB22, Tlu22, TLB20, TY24, VACE21, VT23, VEC21, WRBK20, WCF+21, WY22a, XHLH23, YGL20, ZLW22b].
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[ARR21]. **dominant** [MHY20]. **dominated** [BBB23, GHD24, GFY20, LTD+22, LT20c, MM21a, MZ23, NZ24, SFGNMGN22]. **Dormand** [NNJ21]. **DOSnet** [LLSX23]. **DOT** [ZR24b]. **DOT-type** [ZR24b]. **Double** [EDC+23, LG24, YFY22, ZCYS20, BNT23, EEG22, HL20c]. **Double-flux** [YFY22]. **double-sweeping** [EEG22]. **doubly** [WNB21, WC23]. **doubly-periodic** [WNB21]. **dozens** [SZW+20]. **DP** [KLW24, LHCK24]. **DPG** [MMPD21]. **DPM** [SMF20]. **drag** [BLL19, BLL20, SDA+21]. **drift** [CDT22a, MWZ23, NWM21, RPA22, RHC+24, Sab20, SAH+22, WDK22, ZWZL22]. **drift-correcting** [WDK22]. **drift-diffusion** [RPA22, ZWZL22]. **drift-kinetic** [RHC+24, SAH+22]. **drift-kinetic-equation** [CDT22a]. **drift-region** [MP21]. **DRIPS** [LT23]. **driven** [ALC24, AHH+24, ASSZ21, AMW22, BT21, BB20b, BBH23, BSA21, BSA22, BBA22, CZ23, CHZ+21, CPH+22, CFGJ23, CCHS20b, DDP20, DH24, DOL23, EPL21, EPL22, FGB+20, GQR23, GLLB20, GN23b, HRG+23, HSMR20, HPKS23, HZY22, ISM+23, JYK22, KV20, KH21a, KFP+22, KLF22, LWL22, LJ23, LO23, LL21c, LHA+21, LT24, MH22a, MM21a, MCI23, PRKS23, PBJ23, PR21, QH23, SWG21, SSG21, THH22, WDL+21a, WCM+21, WZZ23, WZSK22, WX20, XJN+20, XZWH22, XD22, YKH24, ZB21b, ZDS+21, ZL21c, ZLL23, ZJ23, ZAMG20, ZBP+24, BSCG22, ZAW+20]. **drop** [MSK+22, WLZ24a]. **droplet** [ABH21, CSF+24, HRR21, MKHI20, MTT+23, NKA+20, RKRW20, XLHB22, ZZW24a]. **droplet-related** [ABH21]. **droplets** [DU20, FS23a, FB23, GHY22b, YLK23]. **droplets/bubbles** [BFG23]. **drops** [CDJM21, FBS23, LWZ+21]. **dry** [BFNK+21, Liu21, MMLL+24, ZABP+24]. **DSMC** [CSY21, FJ21, FHJ22, GMNY23, YSC23]. **DtN** [RG22]. **Dual** [BRS22, DFW22, ZRH20, CWW22, FLW20a, GN20, GCD20, HHRA19, LKEM21, LZY+22b, LOLS23, LLOL24, NG20, Nor22a, PP22b, Pan20b, PGTS21, Qia22, Sev21, hSMLS23, WW20b, ZPGR22, ZSKN22]. **Dual-criteria** [ZRH20]. **dual-field** [ZPGR22]. **Dual-pairing** [DFW22]. **dual-scale** [GCD20]. **dual-stage** [FLW20a]. **duality** [FH24, PWX24]. **duality-preserving** [FH24]. **due** [ARR21, SCL20, Vre20, Vre21b]. **duration** [NDH20]. **during** [LCPW23]. **dust** [SDA+21]. **dusty** [EM20]. **DWR** [FRW+24, LKEM21]. **dye** [AWP23]. **Dynamic** [BGS+22b, DV21, LW22b, AFV20, ASVL23, AR22, BTCV22, CLS20b, CCE+21, DMK+24, EWN+23, FCWS22, FSWA23, GLSZ22, HDML23, HTRC23, JL22, KUO23, KNS21, LLD20, LJ21, LGMV22, LW22a, LLLL23, LM23b, LT20c, LT21, LCJ+20b, MH22a, NKT21, NLZ+22, NKA+20, PH22, PCA+23, QZHD23, RWH+24, RS23a, RGLN22, RHC+24, SBVW20, TLD20, YKdHC20, YhCdJ+23, YQO20, ZL21a, ZZH22, dSLdA+22, KUO23]. **Dynamical** [ARTB20, AHR20, BCWD21, BTK22, CNBH23, CM20, CL20c, CX21, CLXS23, CBA+21, CMCX23, CH22, EHW21, EJ21, EOS23, Ein24, EDLF20, EPL21, EPL22, GFPO22, HMXC23, KK20a, LC20, LJ23, LBT+23, Mül23, PC21a, PEL23, RPDO+21, SSW22, SBCL24, WKA+20, ZJ23]. **Dynamically** [DV20, BR22b, WGY20, ZMG+22]. **dynamically-orthogonal**

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Effective [Cie20, LsCxL+20, ABDD20, BB20a, DDR22, LPS21, LAS22, TKGB23, XC23a]. **effectiveness** [KS22d]. **Effects** [SSPV20, BEB+22, BV21, CHMP24, CBCF20, DSSSP20, DWZ23, FTPB23, GDBFN+20, GPSMH20,

GN23c, HPW21a, MH22b, SHM23b, SFP+20, XL24, ZGK+22]. **efficiency** [DCA+22, DBC+22, GYC+23, LW22b, NG22, SLQW22]. **Efficient** [BCG+20, BOB21b, BOB21a, BPJ22, CL21, CCM+22, Cha23, CT22, CLW20, CM20, CLGA24, CWT24, CI21b, CEBG22, CNCM21, CH22, DFG+23, DCS23, DY22c, DGL+23, ELLZ22, FZS+21, GHE+23, HP23, HV20, HA24, JP23, JBF21, KZC23, LM22, LMN20, MZI+23, MMS24, MB24, MCGN24, MSWH22, NP23, PLYZN23, PB22, Poë22, PWB24, SM24, Suk23, TT22a, TWY22a, Vas23, WL20, WK24a, XLLH21, XC23b, Yan21b, YJK21, YYJ+23, ZCY+21, aZWY23, AP23, ATCS20, AMM23, BGFB20, BDWC23, BG20a, CGC21, CSM20, CFM22, CD22, CVM23, DS23a, DGGL22, DSS+22, DWZ20, DJID20, EDLF20, EdLCCCO24, GKRS22, GLT+20, GKD23, GFJ+20, GMJ24, HL22a, HMXC23, HNZ23a, HTLY23, JL21a, JD23, KP23b, KIHB21, KG20, KWCS23, KCCJ21, LCJ20a, LLQC21, LZC+20, LFT+20, LNC+21, LL21d, LWWH23, LCCL23, LX21, LM20c, MNG+22, MYL21, MST23, MCI23]. **efficient** [MPMD20, NR23, NW20, NW23, ORCVG24, OPHY23, OBB22, Oru21, PLL+21, PK20, RS20b, RRN23, RR22, RBPRST20, SWF21, SSX23, hSMLS23, Sin21, TTY22, TFCH22, TJ22, Vev21, VK24, WRBK20, WZWZ23, WWJ24, WH24, WGU+22, WWLZ21, XJL23, XMY22, Xie22, YZW23, YKFH23, Yua21, YL24a, ZXBS22, ZQYS20, ZZC20, ZPW+23, ZZW24a, ZOEL20, vdBSB20, vdEW24, van22, HXZ23]. **efficiently** [MCBA20]. **EICSPH** [YJK24]. **eigenanalysis** [MAPS20]. **eigenmodal** [MD20c]. **eigenmode** [YH23]. **eigenpairs** [WX24a]. **Eigensolution** [KdMJ+22, KLF22]. **eigenvalue** [BCJM20, BBH23, BZB20, DJ23, DM23c, HLZ20, HP22a, KAC22, LY22a, SML20, WX24a, ZLS22]. **eigenvalues** [AIN20, CLW20, CX22b]. **eigenvectors** [PJBB20]. **Eikonal** [GGN+20, GDL23, PCD23, TEA+23]. **eikonal-based** [PCD23]. **EIM** [CGJM21]. **EIM-degradation** [CGJM21]. **Einstein** [CL21, CDLX23, DFGR20, DZGP24, GC20a, LXY23b, MR23b]. **Einstein-Euler** [DZGP24]. **EISPH** [YJK24]. **EL-RK-FV** [NCQ22]. **Elastic** [AD21, LZS22a, LKvM+22, ALM23, AMM20a, AL20, AL21, ABDD20, BB20b, BY20, CLW20, CGLZ23, CDL21, CC22a, CLJ+20, DLL22, DFW22, GXY24, GLL20, GAC20, HYQ20, JF20, JAW+23, Kar22, KFSM21, LZS22b, LM23a, LBM+23, LTDC23, MDG20, TBM22, TAWD23, TY24, WGB22, WZ22, XH24, XHZ22, XHLH23, Yan21c, YK20a, YZZ24, ZZML20, ZSZ23]. **elastic-acoustic** [GAC20]. **elastic-perfectly** [LZS22b]. **elastic-plastic** [CLJ+20, JAW+23]. **elasticity** [AEGV22, BHNS23, FCM20b, RAZA21, ZFG21, ZZY+20]. **Elasto** [MMSW22, LGY+20]. **Elasto-acoustic** [MMSW22]. **elasto-capillary** [LGY+20]. **Elastocapillarity** [FTP20]. **Elastodynamic** [RG22, BDFT23]. **elastodynamics** [LBC23]. **elastoplastic** [GQF24, MN20]. **elastoplasticity** [Ser23]. **elastostatic** [MNG+22]. **electric** [AP22, ELWY24, FMJ21, FMOJ22, LL23a]. **electric-field** [FMJ21, FMOJ22]. **Electrical** [CJSZ23, DNW23, DZC+23, FY20, YSTK20]. **electro** [BGQ+23, Kan20, KC20a, ZWN24]. **electro-fluid-structure**

[BGQ+23]. **electro-hydro-thermodynamic** [ZWN24]. **electro-quasistatic** [KC20a]. **electro-thermal** [Kan20]. **Electroconvection** [BW20, CWL+21]. **electrode** [DNW23, FGD+21]. **electrodynamics** [KBCH20]. **electroencephalography** [GGM+23]. **electrohydrodynamic** [FBS23, LBM20, PHP21]. **electrohydrodynamics** [XSHH20]. **electrokinetic** [KSK+24]. **electrokinetics** [WLZ21]. **electrolyte** [WZC21]. **electrolyte-dielectric** [WZC21]. **Electromagnetic** [LLZL20, AFF+23, BAK22, CJLL21, CHZ22, CMS+22b, DNP23, FCGKR23, LL23a, LLLL23, LY20b, LMUHR22, LMHL21, LL24b, MF24, Par22, PTT24, PP22c, RC20a, Sem21, Tak23, USRH20, YL24a, ZZW23, ZZW24b, ZZY21]. **electromagnetics** [MPSP22, RC20b]. **electromechanical** [RSA+22]. **electromechanics** [ZBP+24]. **electromechanics-driven** [ZBP+24]. **electron** [BCG23, CHS20, CDT22a, CCLM22, HPRW20, LCS22, SC22b]. **electroneutral** [RAB23]. **electronic** [DLZZ21, Dup21]. **electrons** [EC20, Le21a, LHPS24, LPH+24]. **electrophysiological** [ZMQ24]. **electrophysiology** [ASG+23, BBQ+21, DVV22]. **electroporation** [BBP24]. **electrostatic** [BFS23, CC23, Ere22, JCM24, SGMT20, SGM21, TRC22, ZIMA24]. **electrostatics** [CEBG22]. **electrowetting** [ZR21]. **Element** [AEGV22, BLLL23, DSG+22, DY22c, Nik23, Sel22, ADK+21, Abg20, ARR23, AYH+21, ASJ23, AMGCL21, ADM22, ATS24, BFP21, BS22a, BGNZ22, BDS23, BAK22, BR23, BNP+22, BTEK22, BB20c, BRS22, CG24, CDK+23, CHG+20, CAG20, CJ21, CFM22, CL23a, CMSS21, Coa21, Coa22, CPA+23, CMRR21, CMS+22b, DHM21a, DMN22, DPX23, DLY22, DW22, EFR21, EPL22, FZB+23, FSW22, FFL+23, FHT21, FZ23, FCM20b, FZ21, GYWH20, GJLD20, GDJ24, GGB20, GGB22, GCP24, GL20, HSXZ21, HRR21, He22, HPH+23, HSW21, HW20a, HLX21, HXX23, HCL20, HLH21, Ish22, JYK22, JWZ20, KK20b, KdL20, KB22b, KV23d, KKJ21, LHF23, LP20a, LG22, LN23, LLF+22, Li20, LZZ21b, LB21, LL22, LLZ23b, LZ24a, Lin21, LC24, LT20b, LFZ21, LCC+23a, LJK+24, LN24, LAN21, LY22c, MZ22, MMKM24, MCP23, MÖR24, MMLL+24, MFTZ20, MFK21]. **element** [MFRZ22, MFS+22, MWZ23, NFA21, NVPP23, NKW22, NYY22, PHP21, PWX24, PP24, PKL+21, PLKM22, QC23, RR22, RRFK+21, SOSM20, SPF21, SW22, SHL+20, Tak23, TCK+22, TMG20, TH23, VGG23, WW20b, WYHL21, WTX+21, WZW21, WVRLG23, WCB20, WT24, WR23c, XC20, Xie22, XC23a, XHS21, XHS23, XHLH23, XSA+21, YG24, YLNT20, YCH21, YYLY22, YH22a, YRC+21, YFLL21, YKFH23, YL24b, ZNK23, ZB21b, ZH23, ZZ20, ZFG21, ZWZL22, ZDW22, ZHY22, ZQC+23, ZR20, ZR21, ZR24a, vdWvBAA24, AM22, BBV23]. **element-finite** [WVRLG23]. **element-inspired** [GDJ24]. **Element-wise** [DY22c]. **element/difference** [LG22]. **element/level** [HRR21]. **element/level-set** [HRR21]. **elements** [BMV22, BW23, CCHS20a, CBBI20, CI21b, CDN+22, CLS24b, DY22b, DCSG22, EFR21, EdCC+23, GKD23, GLL20, GZ21, HPW21b, ID20, MDB24, NGK+21, PHHJ22, RLD24b, ZL21a]. **Eliminating** [SC22d]. **Elimination**

[LLF+22, CCHS20a, DS20, LYS22a]. **ellipsoid** [Bal20]. **ellipsoidal** [Kus20]. **ellipsoids** [GCV22]. **elliptic** [AuIL20, BG20b, CCLL20, CWW22, CL23a, CX22a, DYMC20, FZ20b, FHM24, GB22b, GL20, Hac21, HNS20, HLM+20, HLL22, HLY20, JWZ20, KTBP20, Kho20, KAZS23, LCL+22b, LSS20, LY22b, LY22a, LXZ23, MPIG23, MRZ21, Oru21, PWXY22, PWX24, PZ22, PHX23, PBF24, QG21, Ran23, RFZ22, RZ23, SSG+20, Ste22, TJM23, TB21, TLHL23, WZW21, WK21a, WCC23, Xia23, YJH23, YLS21, ZDW22, ZY24]. **elliptical** [CPGD20]. **Embedded** [RHD+24, STC+21, Ver23, BHVJ22, CEL+20, CRPB20, CBC+23, GAB+22a, GAB22b, HF23, HR20, KSHJ20, KWS22, LPJ+23, LT20b, LCDS23, NGZD22, RS20b, SBL22, VLV20, WY22a, WY22b, ZMW23, ZZY21]. **embedded-hybridized** [HR20]. **embedding** [WMS21]. **embeddings** [GFPO22]. **emerging** [FCP21]. **emission** [CHS20, Ian20]. **empirical** [NP23]. **emulate** [CGIL+21]. **emulation** [XKZ21]. **emulator** [XCL22]. **emulsions** [ZD21]. **enabled** [BM21]. **Encapsulated** [LWN24]. **enclosed** [KV23c]. **enclosing** [BBO+22]. **encoder** [PGR+23]. **encoder/decoder** [PGR+23]. **encoding** [HA24]. **encountered** [CE21]. **Energetic** [WLZ21, LCPW23, LLB+23, LW20a, LMHL21]. **energetically** [Lee21]. **Energy** [BDMP22, BTL23, CHSS20, DMN22, DWZ23, DVB20, FY22, FB22, GLLM22, HHS22, HL20a, Iij21, KS24a, KS21c, LN22, LSXC20, Li23, MHW21, MMRP22, OP20, PHP21, QW22, SL22c, SL23, SX20, WH22b, WCB20, XLZ21, YX22, ZYZ+23, ZZSL24, Abg20, AD21, ALF+22, AFF+23, AHWZ20, BJC23, BDZ23, BJR22, CS20, CCY+20, CWW20, CSMH24, CV23, DC23, DJ22, DJ23, DWWZ21, DLY22, Edo22, EJ21, Ere22, EWN+23, FCWS22, FQSW23, FCM20b, FZQ22b, GGB22, GZW20b, Gon24, GS20, GLWY22, HSW21, HT21b, JM22, JWC20, KLS+20, KZC23, KCCR22, KWDS22, KWCS23, KK21, KOS23, LP21, LB21, LDLW21, LYZW21, LXY23a, LLZ23b, LLZ23a, LNYD20, LBM20, LM20b, Liu23, LCCL23, LsCxL+20, LKJL22, MCP23, MMZR21, MRK+20c, MHW22, MM21c, MM22, MKM23, MMYT23, MFS+22, MWZ23, NdlLPL21, NSS23, Nor22b, NMR+21, PM22a, PP22c, PGC24, QWZ21, RLD24b]. **energy** [RC20a, San20, SHL+20, SMY22, SMAY22, SN21, TT22b, TT23, TAWD23, VTC20, VSB+21, WZSC22, WCKS24, WLZP21, Yan23, YD20, Yan21b, Yan21c, YTWK23, YZW23, ZEG21, ZY20b, ZOWW20, ZHY22, ZPGR22, ZDT23, ZZW24a, ZR20, ZH21, ZIMA24, aZWY23, RS23b]. **energy-** [CCY+20, Ere22, ZPGR22]. **energy-adaptive** [MWZ23]. **energy-and** [JM22]. **energy-based** [AHWZ20, HSW21, MKM23]. **Energy-conserving** [BTL23, GLLM22, KS24a, KS21c, SL23, BDZ23, FZQ22b, Gon24, KCCR22, LXY23a, MM21c, MM22, RC20a, San20, YZW23]. **Energy-consistent** [Iij21, RS23b]. **Energy-decreasing** [FY22]. **Energy-dissipative** [ZZSL24]. **energy-momentum** [Liu23]. **Energy-preserving** [HHS22, HL20a, MHW21, XLZ21, CS20, JWC20, LLZ23a, MHW22, VTC20]. **Energy-stable** [BDMP22, DVB20, WH22b, AD21, FCWS22, FQSW23, LB21, LDLW21, LLZ23b, LNYD20, LBM20, TAWD23, WCKS24, YD20,

YTWK23, ZR20, ZH21]. **enforce** [EC20]. **enforced** [AD21, RHG22, TAWD23, WLL+23, ZCY+21]. **enforcement** [LAN21]. **Enforcing** [THH22, WKA+20, ZZZG23, DN21, RK21]. **engines** [RMN+24]. **enhance** [RDAB23]. **Enhanced** [BKMC21, FL23a, FWG22, JKZS21, BGH21, CNBH23, CSY23, DR20, DLZ23, JL23, KP23b, LZT+23, Lep21, LYS22a, LZPM22, LMZ23, NÅ21, PCQL20, TC23, WLKR23, XM20]. **enhancement** [Wan23]. **Enhancing** [DSA23]. **ENO** [LCWJ20, LZLS21, PLL+21]. **Enriched** [BZ20, CHT20, KNLB21, CNB+23, HRR21, WBN21]. **enrichment** [HW20a, SP23]. **Ensemble** [MLCM22, SSW22, CNBH23, CMCX23, HST22b, MLCM21, MTWBT21, WLZ+24b, ZMSX20]. **ensemble-based** [CNBH23]. **ensembles** [YG21]. **Enskog** [BFG23]. **Entropic** [BCM24, BT20, GT21]. **entropies** [Ran22]. **Entropy** [BKY21, Cha20, CLW22, CCN23, DT21a, GCLM22, GS22, GMD22, KGN22, LLO23, MRK+20b, Ren21, RLD24b, RRHCG23, STG20, Svä21, WKW+22, WZ24b, AÖR22, BKC23, BKMM24, BWG+20, CT22, CSW+24, CJK24b, CJK24a, CMRR21, DC23, DT20, DT21b, DT22c, DW22, EKPS23, GS23, DCC+24, HRRHG21, JM22, Jai22b, JRD22, KK21, KOS23, LCS22, LCT23, LC24, LMFV22a, LMFV22b, LCDS23, MÖR24, MRK+20a, Mar23, MGMV22, Nor22b, NMR+22, PBN+21, QWZW23, RBD+21, RRHH+21, SWG21, Svä22, TKK22, UY22, YU22, ZZL24]. **entropy-based** [DW22]. **entropy-bounded** [CJK24b, CJK24a]. **entropy-conservative** [DC23]. **Entropy-entropy** [LLO23]. **entropy-preserving** [JM22]. **entropy-pressure** [LCDS23]. **Entropy-split** [WZ24b]. **Entropy-stable** [GMD22, MRK+20b, RRHCG23, DCC+24, LMFV22a, LMFV22b, MRK+20a, NMR+22, PBN+21]. **entry** [BVRS22, ZBY+23]. **EnVarA** [LDC23]. **EnVarA-FEM** [LDC23]. **envelope** [JZK24]. **environment** [ABY23, FSWA22]. **environments** [MFTZ20, PCD23]. **epicardial** [GGN+20]. **epitaxial** [HX21]. **EPPL** [ZZC20]. **equality** [BS22b]. **Equation** [MOBR22, WK21b, ADK+21, AB24, AC23, ABÁFTO23, An21a, ACÉ+22, AFGLM20, AMM20a, BLF20, BGH20, BRT22, BO22, BSW24, BAK22, BW23, BR23, BG20a, BVT20, BT20, BBP24, BZ20, BGH21, BCR24, BNT23, BY20, BFG23, CSY21, CCL21, CCWX22a, CDT22a, CLDC20, CLY21, CKT21, CWW20, CP20, CGM+23, DS22b, DWM23, EHW21, EJ21, EMP24, EDEV23, EWN+23, FLZ20, FZ20a, FGD+21, FMJ21, FMOJ22, FM23b, FM23a, FPT23, Gar20, GKRS22, GR24, GMA23, GR21, GLLB20, GDL23, GS20, HPA22, HLL23, HSW21, HNR23, HGH20, HA21, HSB20, HHRA19, HQ20, HRG20, HXX23, HCCR22, HJJL20, JL21a, Jai22b, Jai22c, JWH20, JPAZ21, JWC20, JLRZ20, JRD22, JBF21, KTDG20, KSTT22, KS22a, Kar22, KS11, LL20, LSC20a, LLCJ23, LKEM21, LG24, LPP+20, LM21b, LGZ21, LJH23, LN23, LJ22]. **equation** [LSXC20, LYY20, LXD+20, LRW21a, LL22, LZS22a, LLWX22, LT22b, LQX22a, lLNZ21, LZ20b, LHWZ21, LZY+22b, LDC23, LM21c, LLSD20, MRK+20c, MBAG21, MGL21, MPZ24, MCVF22, MST23, MRBC22, MRBS22, MR23b, MPMD20, NS22, NT20, NMR+21,

OP20, OGVM20, PSL20, PBM23, Pan20b, PZ20, PM23, PAM23, Poë23, PEL23, QWZW23, QZZ+24, RS20c, RBPRST20, RA21, RWY21, RMWS21, SH23a, SH23b, Sar21b, STEK17, STEK22, SM24, SL20b, SL22b, SSPV20, SL22c, SL23, SHM24, SMAY22, SCdHJ20, SMRW22, SQSS20, SACT21, SZQS23, TZ21, TLKK23, TZNHD20, TBST20, TBG20, TKR22, TS20, TL21, TEA+23, TOB+24, TPYX22, VRK21a, VMBS20, VVRWT21, WWG20, WZC21, WNB21, Wan22, WWZZ24a, WJKW20, WKK23, WK23, WK24a, WZBV20, WC23, Xia21, XF21c, XG22, YLK20, YCH21, YX22, YSC23, YW22, YK20a, Yin21, YFLL21, ZWY21, ZOWW20, ZZ20, Zha22, ZXY22]. **equation** [ZC23, ZLQS24, ZG24, ZYY23, ZLW23, aKAK20, vGAtTBI23, vGAtTBI24, vdWvBAA24, PRKS23]. **Equation/Variable** [PRKS23]. **Equation/Variable-free** [PRKS23]. **Equations** [CCPS21, ADK+21, AdS22, AG21, AG24, AMB22a, AAMPR24, ARGK22, AST21, AZ22, AHWZ20, AR20, AK21, AF23, ARR21, BDT21, BFP21, BL20, BT21, Bal20, Bal21, BBH+20, BGNZ22, BDS23, Bar21b, BFM21, BBB23, BB23b, BM21, Bel24, BCM24, BCIT22, BGGM21, BL21a, BKC23, BP22, BKY21, BWG+20, BDP23a, BDL+20, BP21, BGS+22b, BLK+23, BSZ+23, BJL21, BPVE24, BSK+23, BM24, CCE+22, CC24, CMR21, CKLZ23, CP22a, CB24, CZ22a, CLW22, CSW+24, CXZ24, CHT20, CHSS20, CZ20a, CCY+20, CCWX22b, CJW22, CDX22, CN22, CWX23, CS24a, CSS20, CLS20b, CTCS22, CCE+21, CJK24b, CJK24a, CBRY21a, CBRY21b, CK21, CPK22, CBY23, CSY20, CS23, CCXX23, CLPP24, CGM+23, CX22a, Coc20, CCHS20b, CA22a, CCdS20, CdS22, CEM20, CH24, DEN22, DY22a, DM21, DC23, DS22a, DLP21, DCGQ20]. **equations** [DH20, DLYZ23, Don23, DYMC20, DOQ23, DGW20, DZ22, DZ23, DYZ24, DFGR20, DTB20, DVB20, DFP+21b, ELL+23, EBC+22, EL24, EOP20, EDEV23, EdLCCCO24, EJ23b, EFY23, FPT20, FZB+23, FZQ21, FZQ22a, FHWK21, FJH20, FN22, FWNT21, FM22, FX22, GGCvR22, GMB+22, GHY22a, GLSZ22, GW23, GCDT22, GGB20, GTWJ24, GBLT20, GNF22, GQR23, GS22, GMSLC24, GP23, GHNS21, DCC+24, GYZ21, GHS22, GKPT22, GDB24, GLWY22, GHTC21, GWZ22, GLY22, GYWG23, HMV22, HSM20, HNS20, HLM+20, HDML23, HYQ20, HKL+23, HJ22, HRRHG21, HKS20, Hig22, HKMR20, HMO+20, HHS22, HHLS22, HMXC23, HHSZ24, HCdM23, HR20, HL20a, HL20b, HLXZ21, HLH21, HSW22, HRWP22, HXX22, HYH24, IK23b, JHY21, JGvR23, JTW22, JCLK21, JLY22, JL23, JLY23, JLLY24, JKJ20, JK20, JLQY21, JH23, KCS21, KV23a, KB24, KTBP20, KMR23, KBB21, Kem23, KKA24]. **equations** [KLS+20, KSI+23, KKPB20, Kiv21, KS21b, KS24a, KNT22, KR23, KV23b, KZC23, KCK21, KCD+23, KLZ20, KMF20, KK20b, LHF23, LPM+20, LT22a, LWR+24, LJW+22, LN21a, LN22, LP20a, LCS24, LG20, LD20a, LCJ20a, Li20, LCSZ21, LZZ21b, LG21, LH21, LY22b, LLO22b, LLO22a, LQX22b, Li23, LLZ23b, LWF23, lLTZ20, LP23a, LNYD20, LCT23, LBT+23, LW20a, LSLH20, LFZ21, LZLS21, LWW21, LPZ22, LWYY22, LM23b, LJS+23, LZ23, LLOL24, LMFV22a, LMFV22b, LY23, LM21c, LLSD20, LP20b, LWX24, LM20c,

LL23b, LLZ23c, LCJ+20b, LZCC22, MSC+20, MD20a, MCP23, MTK22, MCGN24, MRK+20a, Mar20, MHLR22, MOBR22, MPZ23, MB21, MYL21, MTB22, MZ23, MM21c, MM22, MDF21, MBM+23, MHY20, MMM23, NCQ22, NV22, NGZD22, NPP24, NYY22, NG20, NW22, Nor22b, OPM22, OY21, OWHN22, OBB22, Osi20, Osi24, PDM23, PWH+22, PWX24, PCB21]. **equations**
[PCB22, PZ22, PB20b, PAA23, PCQL20, PHX23, PA20, PPHO22, QG21, QWZ21, QLY21, QW22, Ran22, RWQX23, Ren21, RLD24a, RS23b, RC20b, RN23, RAB23, RB24, RRHH+21, RRFK+21, SLF23a, Sac22, SKT20, SHS+20, Sem21, SDKL21, SWF21, SSS20, SSX23, Shi23, SC23, SSMA21, SST+23, SML20, SZKY24, SP22, SdSPS24, Suk23, SX20, SSX22, Svä21, TCS22, TL20, TWL22, TBM22, TWY23, TZ24, TPK20, TGM23, TSTH20, TY24, TC23, UY22, VVL21, WX22, WCZ+20, WZTZ21, WK21a, WZSC22, WJHS23, WR23a, WP23, WGS23, WKW+22, WKK23, WCBQ24, WCB20, WR23c, WZ24b, WX20, WHS22, XBH+22, XLZ21, XH24, XSSS22, XZW21, XJS21, XS22a, XS23, XM20, YU22, YLNT20, YYX21, YCC+22, YLS21, YMY+21, YWLL21, YSN23, YGL20, Yua21, YNDH22, ZXMK21, ZBYZ20, ZZZ22, ZCZ22, ZNCZ+21, ZA20, ZCQ19, ZCQ20a, ZQYS20, ZGLL20, ZJZK20]. **equations** [ZS21a, ZL21c, ZL21b, ZHY22, ZX22, ZSM22, ZPGR22, ZLW+22a, ZZZG23, ZSST23, ZDT23, ZCCN23, ZXX23, ZZYX20, ZOG21b, ZH21, ZZ23c, ZGX24, ZHH+24, ZT23, ZYD20, ZL22, ZZL24, aKAK20, dLF23, vHG+22]. **equidistribution** [KH20]. **equifinality** [GSOM23]. **equilibrate** [MX22]. **equilibria** [HP22a]. **equilibrium**
[AAM20, BJC23, CSCL20, CSS20, EM20, EFR21, FTK23, GLJB20, GN23c, HJJL20, JZB+24, JTZ22, LCS24, MSIM21, NKT21, PCF21, SVW21, Sim23, TZ20, WLW+20, YhCdJ+23, ZSY24, ZTZX24]. **equilibrium-diffusion** [CSS20, LCS24]. **equilibriums** [DNO23]. **EQUIP** [CHSS20]. **Equivalence** [MMPD21]. **equivalent** [HCL20, MBDS23, MMRP22, YcD23]. **equivariant** [GDLL22, HZX23]. **era** [KEML+24]. **Erdos** [CY21]. **erodible** [MMLL+24]. **Error** [LCG22a, QZHD23, WR23a, ZPK22, ALL22, AR21, BGGM22, CORJ+23, CHG+20, CMH20, CGJM21, CZCY23, CX22a, DMC+23, DM23c, EFSH21, FRW+24, GF21, GZ21, HGB20, IW23, JO22, KKA24, LRVF22, LKEM21, LTK+22, LMN20, PBZ24, PV20, SL22a, SBJ+23, SM21b, SM22, TL21, VM22, ZHL21, ZLW23]. **error-controlled** [SL22a]. **Error-correcting** [LCG22a]. **Error-optimized** [ZPK22]. **errors**
[BSR20, FA22, GEvWD22, KK22b, STB+21, WS22, XLT+20]. **ES-BGK** [vdWvBAA24]. **ESAV** [GLLM22]. **ESAV-Hermite-Galerkin** [GLLM22]. **escape** [Sab20]. **ESERK** [MVK20]. **ESI** [LL21d]. **ESI-SAV** [LL21d]. **essentially** [BSA22, GLF23, HLA20c, SSK20, WTZZ23]. **estimate** [KNT22]. **estimates** [Gri20, KS22c, KS22b, MFdSS24]. **Estimation**
[TT20, BLL19, BLL20, BCG+20, BS20, CGJM21, DM23c, EKPS23, GSOM23, HB21, JO22, KC20b, KNP20, KBC22, LCG22b, LCPW23, LT20a, LAMC24, POS+20, RLH22, RBC+23, SM22, VM22, WK24a, XLLH21, ZHL21]. **estimator** [GTDB22, WW20a]. **estimators** [BLWL22, ZS21b]. **ETD**

[ZYZ+23]. **Euler**
[BLL20, BLL19, Bal21, Bar21b, BBB23, BB23b, BDL+20, BJL21, CSW+24, CBBI20, CJK24b, CJK24a, CGM+23, DC23, DYZ24, DZGP24, FX22, GMRS20, GGB20, GGH+23, HRRHG21, HBF22, HYZ22, HTLY23, IK23b, JTW22, Kem23, KR23, LP20a, LD20a, LCJ20a, LG21, LCT23, MS20b, Nor22b, PRL22, Ran22, RWQX23, Ren21, SEG21a, LF24a, Svä21, TPK20, WX22, WZTZ21, WKW+22, WZ24b, YMY+21, YSN23, ZA20, ZS21a, ZL21b, ZZL24]. **Euler/Navier** [WZTZ21]. **Eulerian** [LGY+20, BFI22, BDWC23, CQY21, CB24, CLLL20, CCLM22, DKM+20, DDVO21, DGW20, DLY22, EM20, EASA23, FHWK21, FX22, GBC+20, GHY22b, GDB24, HLA20a, HSXZ21, HQ22, JN20, KKS21a, KVH20, KBS+21, KWR+23, LB24, LG22, LPL+22, LZX+22a, LQXM22, MJ23, NCQ22, NFL+21b, PM21a, PJW21, QJQW22, QJL23, REC+22, RMJ23, RRPSS21, SOSM20, SRTB21, SMY22, TSP22, TKR22, WWYC21, WZL21, YL21b, ZXX23]. **Eulerian-Eulerian** [PM21a]. **Eulerian-Eulerian/Eulerian** [PM21a]. **Eulerian/Eulerian** [PM21a]. **Eulerian/Lagrangian** [LGY+20]. **evacuation** [AFMP24]. **Evaluating** [DHMT21, AZV23]. **Evaluation**
[GJL20, DPI24, KCD+23, AMW22, BFL20, CCM+22, GKRS22, GHH24, KKCC20, NDH20, NMGR21, SL20a, WGH23, YSTK20]. **Evans** [NSS23]. **evaporating** [MMM23]. **evaporation**
[CSF+24, KVH20, MTT+23, RKRW20, RSSK24, ZZN22]. **evaporative** [PR20]. **Even** [BTZ22]. **event** [DSS+22, OGVM22, ZSM22]. **events** [Gri20, SFDW23]. **evolution** [ARB+21, BGNZ22, BPVE24, CCE+22, GYWG23, KH21a, Mon21, SM21a, WP23]. **evolutional** [AF24]. **evolutionary** [HKW24, lLNZ21, ZZSL24]. **evolving**
[BB20b, CB24, CL20d, TFCH22, YA21, YGL20]. **Ewald** [BT23]. **Exact** [LP21, Mül23, WHN+20, AMB22a, FML21, LXY23a, PWXY22, Per23, PP22c, SEG21b, SEG22, THH22, AFF+23]. **exact-interface-fitted** [PWXY22]. **exactly** [BDZ23, CLLL20, DN21, FZB+23, HR20, WDS22]. **example** [BLLL23]. **exceptional** [NPD20]. **exchange** [LWZ22, LMZ23]. **exchanges** [LP21]. **excitation** [HKRS23, WR23c]. **excitations** [GC20a]. **excited** [LXY23b]. **Exclusive** [FA22]. **exhibiting** [FTPB23]. **existing** [MVO+22]. **exit** [YZdCNS21]. **Exner** [MACDR24]. **exogeneous** [RWH+24]. **exogenous** [KH21a]. **Expansion** [WK20, BKON23, CB23, CZ22b, DBC+22, HHVM20, Kus20, LPP+20, Mon21, PDM23, TBST20, WCZ+20]. **expansions** [DHMT21, GKD23, NSS24, TBSH21, TZ24, TPSN20, VBA22, WK20, XLL24]. **expected** [BCC+24]. **expensive** [WLS22]. **experimental**
[BJW20, Gla21, SM21b, SLOZ21b]. **experiments** [GMMS22, PC22, RA21]. **explainable** [THKT21]. **Explicit** [BFM21, BDZ23, Gon24, KS24b, LZC+23, NV22, TBW22, AGR23, ADP22, BMV22, Bal21, Bar22, BCP22, CMR21, CZCY23, CSY20, CELV21, CELV22, CdS22, ELLZ22, EC20, FGKY22, FCWS22, GTDB22, GFG22, GN23c, KGBT20, KV23a, Kem24, KKPB20, LBC23, LJW+22, LP21, Liu20b, LZ23, LMPT24, MYM+21, MYL21, NIT21, NMN23, NYY22, SC22a, SMR22, TCS22, VN21, Ver23, WWG20, WLH21,

WLL+23, YJK24, ZQYS20, ZH20, RWdBAG23, BD20a]. **explicit-implicit** [ELLZ22]. **explicit-implicit-null** [TCS22]. **Explicit-solute** [LZC+23]. **explicit/vertically** [LP21]. **Explicitly** [LGL23b, CLC24a, FZQ22b]. **explicitly-sparse** [CLC24a]. **Exploiting** [ABÁFTO23, SvDtTB21]. **exploration** [HLXZ21]. **explosion** [GZW20a, LWY+20]. **exponent** [YL21a]. **Exponential** [BM24, CCHS20b, CEM20, CH24, LSC20a, AAKW20, CBQ21, CEMO21, CC24, CPA+23, FY22, GJLD20, GRT18, GRT21, JWC20, Li22, LL21d, MHW21, MMPD21, PGC24, PC22, SZQS23, Wan23, YGJ21a, YGJ21b, YYX21]. **Expression** [RHSK21]. **expressions** [SL20a]. **extend** [HMMO20]. **Extended** [LT21, TGM23, ACHG+21, ALL22, CMSS21, LZLZ21, LYZW21, MTT+23, RSSK24, XHS21, XHS23, ZG21, ZG24, AG24]. **Extending** [KDL23]. **Extension** [ADJ23, KUO23, SLOZ21b, AÖR22, BB23b, HP23, LVK+22, PGCC+22, QG21, RHG22, XY20b, ZC22b, ZC22c, ZL22, HSS21]. **extensions** [SPGG23]. **exterior** [BRS22, MJS23, THH22, WJHS23]. **external** [BDWC23, DA23, ELWY24]. **extinction** [PM22a]. **extract** [NWM21]. **extraction** [DGL+23, LEH+21, ZXD22]. **Extrapolated** [CRPB20]. **extrapolation** [KB22b, MYL21]. **extreme** [DL21, DY22b, Gri20, MRL+23]. **extremum** [DDR22]. **extremum-preserving** [DDR22].

Face [KB22a, NW20, Nis20a, PP24, VKR+22]. **face-area-weighted** [Nis20a]. **face-averaged** [NW20]. **Face-based** [KB22a]. **face-upwinded** [PP24]. **faces** [PH21, PGP+23]. **factor** [Ara20, JLQY21, LM21c, NS22, YGJ21a, YGJ21b, OPHY23]. **Factored** [BB21, BB23a]. **factorization** [CZHY20, PJBB20, TPYX22, WH24]. **Factorized** [BCG23]. **fail** [MLPR24, SM24, WYP22]. **fail-safe** [MLPR24, SM24]. **failure** [KBG23, TCR+20]. **family** [LSZ+23a, NME23, OPHY23, Ran22, SZQS23]. **far** [LLS24a, RtTBI20, YYL20]. **far-field** [RtTBI20, YYL20]. **farfield** [VBA22]. **Fast** [AMW22, AF24, BT23, BL20, BSLM24, CHN24, CFS23, CCAR22, DGW20, DS23b, ESJ23, FJH20, GA24, KLP22, KV23a, KCCR22, LW23, LZJ+24, MCVF22, SGMT20, Sel22, SDA+21, SP23, WZC21, WZ22, YSTK20, AF20, AZV23, CCJW24, CJLL21, DZJ22, DVV22, DNP23, DYMC20, DW20a, DMRB20, FSB+20, GRT18, GRT21, GKD23, HM21a, HKKS21, HKRS23, HQ20, KS23, KKA24, KKM21, KCWZ22, LCH20, LLLO21, LZZ21a, LHA+21, LZY+22b, LA21, MWS24, Mon21, OWHN22, Osi20, PWH+22, PAGJ23, RS23a, RS20b, RIC+22, SL22a, Tak23, TPPA22, TEA+23, VCPGR20, WK20, WLW+20, WCZ+20, WSS22, WC23, YI23, YWLL21, YZZZ22, aKAK20]. **fast-converging** [LZY+22b]. **Faster** [AFMP24]. **FastRK3** [ATF23]. **fault** [DZJ22, GB22b, NVK+22, ZJ21]. **fault-tolerant** [GB22b]. **faulted** [BHVJ22]. **FBSDE** [ZC22a]. **FC** [AP20]. **FC-based** [AP20]. **FD** [CS23, GFF20, MFG22, PC23, TB21, ZP20]. **FDM** [WLKR23]. **FDTD** [CWL+23, TB23, XLZ21]. **FE** [BBD+20, VRK21a]. **Feasibility** [WDH+21].

Feature [AF21, CS24a, SKT23, Ben23, EMS+21, MZ23]. **Feature-adjacent** [CS24a]. **Feature-based** [AF21]. **Feature-informed** [SKT23]. **featured** [FL21]. **features** [ALFN22, FB22, KLA23, MYZ22, WDL+21a]. **February** [Ano20d, Ano20p, Ano21d, Ano21p, Ano22d, Ano22p, Ano23d, Ano23p, Ano24b, Ano24h]. **feedback** [AFK+23, EK21]. **FEM** [GZW20a, HVD23, LOL22, LDC23, MFK21, PP22c, van22]. **FEM-BEM** [van22]. **FEM-NN** [MFK21]. **Fermi** [MR23b]. **FETI** [KLW24]. **FETI-DP** [KLW24]. **few** [AFP24, RLH22]. **Feynman** [DZC+23, YZdCNS21]. **FFP** [ABDD20]. **FFT** [FZ20a, FZ20b, LLF+22, RFZ22, RZ23, YSTK20]. **FFT-based** [FZ20a, LLF+22]. **fiber** [KJB+24, LLZL20]. **fiber-reinforced** [LLZL20]. **fibers** [KKM21, KCT+23]. **fibre** [LGY+20]. **fibrosis** [FBD+22]. **fibrous** [MBDS23]. **Fickian** [AdDMT21]. **Fictitious** [OLP23, OYK+22, SGPW21, TPB22]. **fidelity** [AP23, AFP22, BS22b, BBF20, BPBM23, Cha21, CS24a, CL23b, DS23a, DD22a, FJG+20, HLL23, KFP+22, LZ20b, LPZ22, MK20, MBK21, PZ24, RWDG22, SLF23b, XHX22, YGJ21a, YGJ21b, ZDS+21, ZYY+24]. **Field** [HLA20c, HLA22b, HJ23, Abg20, Aca24, ALFN22, ASKH21, AB23, ACHG+21, AP22, BGS22a, BDMT22, BRS22, BPT+20, CC22b, DH20, DFGR20, ELWY24, FMJ21, FMOJ22, FM23b, FM23a, Fu20, FY22, FLOL23, GJLD20, GNF22, GR21, GGH+23, GWZ22, HHAFR21, HL22a, HGZ23, HNZ23a, HZ22a, HYCL23, HJ24a, HJ24b, Jai22a, JTK22, JLXZ24, KSW22, LFY21, LLO22a, LW22a, LYZ22, LLS24a, LNC+21, LRT+22b, LWX24, LKJL22, MS20a, MJJ21, MJ23, MM21c, MM22, MKM23, MM24, Mis23, MYZ22, PGS22, PN22, QHZ+22, QW22, RMJ23, RtTBI20, SHM+23a, Sem21, SRTB21, SHL+20, SLF23b, TWY22a, TWY+22b, USRH20, VPL20, WDH+21, WZCK21, WJHS23, WLZ24a, XJL23, XHZ22, XDCF21, YWN20, Yan21a, Yan21b, Yan21c, YTK22, YH22a, YK22, YYL20, YXL22, YLLO23, ZY20b, ZPGR22, ZSsC+22, ZWN24, ZCY24, ZKY+20, HLA22a]. **field-aligned** [DH20]. **field-based** [YXL22]. **fields** [CWL+21, Cam21, CC23, GTDB22, JTW22, KLA23, KM22b, LDM+21, LG21, MGT+21, PJW21, PLV20, PRL22, RGH+22, RC20a, TSSOA20, WDS22, XKZ21, XLT+20]. **Fifth** [CKN22b, LXSF22, ZZ23b, ZZ23c, ZWQG23, ZQL+22]. **Fifth-order** [CKN22b, LXSF22, ZZ23b, ZZ23c, ZWQG23, ZQL+22]. **filamentary** [HPX23]. **filaments** [HCL22, HLPX24, JF20, RW22, STWK21]. **filled** [TB23]. **film** [ACML20a, ACML20b, KJB+24, PH22]. **films** [LWZ+21, QERT20]. **filter** [AB22, BJ21, KKSY21, MLCM21, TT22a, TSS+20, WLZ+24b, ZNK23, MLCM22]. **Filtered** [KMF20, LWF23, BBB23, BB23b, XJS21]. **filtering** [BBF20, DHK23, DW22, FGK22, GQR21, GQR23, HST22b, Iij21, JP22, LCP21a, NMN23]. **filters** [FBG20, JL22, PTZ+24]. **find** [PGS22, SZW+20]. **finding** [CW21, JF24, LXY23b, VK24]. **fine** [LCN20]. **Finite** [AEGV22, Bat20b, BLLL23, BLM22, HMO+20, MLL+24, MFRZ22, Nik23, RHD+24, SK23a, TB23, TV22, XL24, ZZ24, ALC24, Abg20, AT20, AYH+21, ASJ23, AD20, AD21, AMGCL21, ACR23, ATS24, BFP21, BMV22, BHNS23,

BGNZ22, BHVJ22, BAK22, BCIR22, BW23, BG21, BFI22, BMBM24, BSA21, BR23, BNP+22, BKC23, BTEK22, BB20c, BBP24, BDL+20, BDI+21, BLBM24, BV22, BL22b, BTKP24, BRS22, BR22b, CCJW24, CDK+23, Cap23, CB24, CHG+20, CAG20, CJ21, CA24, CLS+20a, CBF22, CNMB20, CCHS20a, CZLC20, CHF21, CW22a, CZLC22, CL23a, CWX23, CGZ23, CLXS23, CMSS21, CSY23, CLP21, CLPP24, CPA+23, CSS24, CNCM21, CA22b, CLS24b, CMS+22b, DHM21a, DDR22, DMN22, DVS22, DEvW20, DBD21, DSZ20, DPX23, DY22b, DT21b, DLY22, DT22c, DCSG22, DFW22, EFR21, EWN+23, FZB+23, FZQ21]. **finite** [FZQ22a, FSW22, FZ20b, FHM24, FFL+23, FZ23, FCM20b, FZ21, FB22, GvR24, GYWH20, GJLD20, GDJ24, GQF24, GTDB22, GGB20, GGB22, GQS20, GSFH22, GCP24, GLK20, DCC+24, GLY20, GL20, GLL20, GZ21, HT21a, HPA22, HSXZ21, HRR21, He22, HPH+23, HSW21, HST22a, HPW21b, HW20a, HL20a, HLX21, HXX23, HCL20, HLH21, HRWP22, HXX22, HX23, HSG+22, Iij21, Jen20, JYK22, JWZ20, JTK22, JLYH24, JH23, KSTT22, KK22a, KCK21, KCD+23, KOS23, KK20b, KdL20, KB22b, KV23d, KKJ21, LHF23, LBC23, LFP+21, LL21a, LG22, LL23a, LN23, LLF+22, LOL20, Li20, LZZ21b, LB21, LG21, LZ22a, LL22, LCR22, LLPL22, LLZ23b, LSZ+23a, LZ24a, LH20, LRAQ22, LWZ23, LZ24b, LRW21b, LCN20, LCN24, LSZY20, Liu20b, LT20b, LFZ21, LZLS21, Liu21, LYS+22b, LCC+23a, LSY+23, LFW23, LTBM23, LJK+24, LBM+23, LM20c, LN24, LAN21, LY22c, MZ22, MACDR24, MMKM24]. **finite** [MCP23, MYJ+23, MJS23, MLM+21, MR23a, MPIG23, MFK21, MD22, MWZ23, NCQ22, NFA21, NVPP23, NKW22, NYY22, NW20, Nis20a, Nis22b, NW23, NVK+22, OGG20, PHP21, PWXY22, PP22b, PWX24, PPP21, PBGB21, PRL22, PGP+23, QZZ+24, QCD21, QC23, RFZ22, RZ23, RWQX23, RLD24b, RRHH+21, RAZA21, RPDO+21, RW22, RMWS21, SMSAGG22, SOSM20, San20, SOV21, Sar21a, SWG+20, SGW+23, SPF21, SEG21b, SGT23, SHL+20, SBVM20, SMRW22, SST+23, SSG+20, SCL20, SLNM21, SAM23, SC22d, SN21, TCS22, TCK+22, TAWD23, TMG20, TJM23, TVL+22, Uil20, VMO21, WW20b, WYHL21, WTX+21, WCF+21, WZTZ21, WZW21, WVRLG23, WCB20, WT24, WR23c, WK24b, XC20, XDLX21, Xie22, XC23a, XH24, XBRL21, XHS21, XHS23, XM20, XSA+21, YG24, YLK20, YLNT20, YCH21, YYLY22, YH22a, YRC+21, YLS21, YYM+22, YFLL21, YL21a, YKFH23, YL24b, ZNK23]. **finite** [ZOG22, ZCY23, ZZ20, ZA21, ZL21b, ZWZL22, ZDW22, ZHY22, ZX22, ZZ23b, ZDT23, ZXX23, ZJQ+24, ZR20, ZR21, ZJ21, ZZ23c, ZR24a, ZSQ21, ZLW22b, ZWR24, ZS20, ZL22, ZPK22, vdWvBAA24, Bel24, GAB22b, HMV22]. **Finite-difference** [TB23, ACR23, BKC23, CBF22, JTK22, LRW21b, Liu20b, SOV21, SGT23, SSG+20, SN21, XH24, XBRL21, ZLW22b, ZPK22]. **finite-element** [Abg20, LLF+22, Li20]. **finite-element-based** [NFA21]. **finite-grid** [SC22d]. **finite-rate** [MLM+21]. **Finite-size** [XL24]. **finite-strain** [LBC23]. **finite-volume** [BHVJ22, BFI22, BSA21, BR22b, Cap23, CZLC22, CLXS23, DVS22, DEvW20, GQF24, GSFH22, Liu21, LTBM23, NW20, Nis20a, Nis22b, NW23,

OGG20, PBGB21, PRL22, RPDO+21, SMSAGG22, SGW+23, SEG21b, SBVM20, ZB21a, ZCY23, HMV22]. **First**
[GKA22, SL20b, SL22b, UY22, ZXMK21, AN21b, CPGD21, CP20, DD22b, DFGR20, DZGP24, FPT20, GB22a, KAC22, LLOL24, LsCxL+20, MR23a, NP23, SZ21, WMTQ20, WW20b]. **First-order** [SL20b, SL22b, UY22, CP20, DZGP24, FPT20, LLOL24, LsCxL+20, NP23, SZ21, WMTQ20, WW20b]. **First-passage** [GKA22, ZXMK21, KAC22]. **Fisher** [LLW20b, ZG24]. **fit** [GEvWD22, TLKK23]. **fitted** [CRF+21, FADJ20, GNZ23, HLY20, PWXY22]. **fitting** [CRPB20, DHM21a, SI22]. **FitzHugh** [CCJW24, WCF+21]. **five** [HLL23, ZC23]. **five-equation** [HLL23, ZC23]. **Fixed**
[DEB21, BBC21, LZZ21a, LHT21, LL23b, MNG+22, MD22, YS22]. **fixed-point** [LZZ21a, LL23b, MNG+22]. **flash** [FCWS22, LYS22a, ZYZ+23]. **flat** [DW20b, ZDT23]. **flexible**
[HYSS22, KWR+23, KCT+23, LGY+20, LFA21, TF20, VSS21]. **flexible-body** [KWR+23]. **flexural** [TAWD23, YL24b]. **flexural-gravity** [TAWD23]. **flight** [KSK21]. **floating** [LSW20, ZTS20]. **floes** [ZMZY23]. **flood** [JADS21]. **flooding** [ZLC+20]. **Floquet** [GLT+20]. **Flow**
[EPL21, HSG+22, RHD+24, WCA+20, ARC22, ARR23, ALMF23, ABH21, AXWF23, AdDMT21, ADP22, ASJ23, AK22, AP22, BT23, BVRS22, BSVL24, BBV23, BCPV21, BKC23, BEP+20, BKMC21, BPJ22, BT24, BE20, BX20, BR22b, CL21, CFSH20, CA24, CZZ21, CCM+22, CDT22b, CMH20, CCHS20a, CHF21, Che23b, CLS20b, CYS22, CYYS22, CYHY23, CFS23, CPGD21, CSLC21, CLP22, CELV21, CF22, CBC+23, CMNS21, CPBB21, CV23, CMRR21, CCW20, DSBFN+20, DS20, DG23, DLY22, DGPP22, DFJ20, DJID20, DTB20, EFS+20, EPL22, EK21, FTP20, FDH+24, FSWA22, FSWA23, Fu20, FS21, GM23a, GNZ23, GBLT20, GU20, DPI24, GSFH22, GZW20b, GMNY23, GQ22, GWZ22, HdB20, HEG23, HSW21, HKS20, HTL21, HHN+21, HP21a, HM21b, HZ22a, HJQ+23, IKP22, JHT23, JGvR23, JRY+20, JL21b, JTT23, JP23, JD23, JCLK21, JGR22, KP24]. **flow**
[KLA23, KSS21, KS21a, KS11, KHS20, KCT+23, KWDS22, KWCS23, KDB+20, KKY+21, KJ22, KLPR20, KT24, LZT+23, LW21, LPL+22, LYL20, LLW20a, LTT21, LW22b, LGMV22, LYS22a, LHXZ22, LW22a, LLF23, LXSF22, LHT21, LBM20, LZX20, LMZ21b, LCWH23, LJK+24, LZZW24, LMK21, LW20b, LBM+23, LN24, LCDS23, MZI+23, MXL+24, MR22, MLM+21, MSK+22, MZC+22, MSIM21, Mis23, MYY+23, MD20c, MD22, MS20b, NFA21, NAZ22, PSL20, PPV+21, PS22a, PBN+21, PAA23, PLL+21, PLV20, PSRM20, PBVC22, PGMTP23, QLMR24, RMN+24, RS23a, RHG22, Rei22, RKVV20, San20, SBH21, SMK23, SBC20, SWG+20, SGW+23, SS23, SRV21, SAL+20, SLF23b, Sti20, SI22, TLD20, TV22, TKGB23, TH23, Uil20, VACE21, VT23, Vre17, Vre20, Vre21b, Vre21a, WL20, WCL+20, WNB21, WCM+21, Wan22, WCF22, WH22b, WCZ22, WLS22, WCKS24, WZBV20, WGY+21, WK21b, WWZZ24b]. **flow**
[XF21a, XCL+21, XZRW21, XHY23, XMZ+23, Xu24, YHC+22, Yan21c, YA21, YRHN22, YH22a, YKH24, YJK24, YZK20, YL21b, YKFH23, YP22,

ZZC20, ZL21a, ZHPZ21, ZPW+23, ZS24, ZJ21, ZLB22, ZJSX23, ZR24a, ZB24, ZZX20, ZF20, ZD21, ZR24b, ZSKN22, dSdCdMC+24, vHP22, vdEW23]. **flow-acoustic** [EK21]. **flow-body** [JGvR23]. **flow-coupled** [Yan21c]. **Flow-driven** [EPL21, EPL22]. **flow-finite** [ZJ21]. **flow-induced** [FTP20, ZHPZ21]. **flow/porous** [SWG+20]. **flow/porous-medium** [SWG+20]. **flowfield** [LHW+23]. **flowfields** [MHWY21]. **flows** [ARTB20, AF20, AKWY20, ASVL23, BAT23, BL22a, BDBB22, BBB23, BB20a, BV20, BV21, BBD+20, BL21a, BDTU24, BDWC23, BKMM24, BDF+23, BDMP22, BSV22, BFNK+21, BDB21, BSZ+23, BMQ20, BDMT22, BFC23, CHMP24, Cal21, CCPS21, CCPS23, CAF+22, CPX22, CSCL20, Cha23, CHCC23, CLC24b, CDLX23, CZL20, CLJ+20, CDX+21, CW22b, CAT20, CBBI20, CI21a, CI21b, Chi23, CRF+21, CCB22, CSS24, CCMC20, CSdP+22, DVS22, DA23, DCHF21, DDVO21, DV23b, DSPB22, DhJV+22, DZL+22, DEvW20, DC21, DJ20, DPX23, DS21, DLSvW24, DY22d, DOL23, EGTC+21, EM20, Eld22, EdLCCCO24, EASA23, EAA+22, EFO19, EFO20, EGN23, FZLL20, FQSW23, FCTZ24, FBS23, FZ23, FCW21, FWG22, FOL23, FTK23, GLF23, GDBFN+20, GQS20, GMMS22, GH23, GCP24, GFY20, GLK20, GTKA20, GBF+24, GDF21, GWZ22, GCL+22, HPW21a]. **flows** [HKJ21, HV20, HYSS22, HRY+22, HZHL22, HLL23, HCL22, HGH20, HBF22, HSMR20, HGB20, HCdM23, HT21b, HYZ22, HTLY23, HLA20b, HLA20c, HLA21, HLA22a, HLA22b, HZ22b, HYCL23, HJ23, HNZ23b, HJ24a, HP21b, HTDL24, HJ24b, IT22, JHJ20, JMAK22, JMM20, Jai22a, JM22, JAW+23, JM23, JKZS21, JP22, KM22a, KM22b, KLS+20, KJ24, KL22, KK22a, KSBG20, KCCJ21, KS24b, KKS+21c, KD21a, KD20, KCD+23, KK22b, KOS23, KT20, LL20, LLKY21, LWL22, LB24, LVK+22, LHC22, LLW20b, LOL20, LYY20, LLNL21, LCR22, LCCM22, LZPM22, LZ22b, LLL22, LLPL22, LSZ+23a, LLQ+23, LZ20a, LY20a, LSZY20, LSC+20c, Liu20a, LNC+21, LMZ+21a, Liu21, LYS+22b, LRT+22b, LSY+23, LC23, LTBM23, LCP21b, LFL+22, LCP23, LCP+24, LLCK20, LAN21, LY22c, MMS24, MYJ+23, MÖR24, MJJ21, MMLL+24, MA21, MCBA20, MPBG23, MBE21, MM21a, MIM20, MM21c, MM22, MKM23, MM24, MLCM21]. **flows** [MFRZ22, MAPS20, MMZZ22, NZ24, NME23, NZXM21, OLS21, OLP23, OCGT22, OYK+22, PR24, PA21, PCF21, PKC22, PM21a, PBM23, PJW21, PKG20, PR23, PR20, PRL22, PAM23, PLKM22, PSCK23, DM23b, PO21, Pop20, QWZW23, REC+22, RUG20, RLH22, RR22, RRBR+23, RWDG22, RZH20, RSSK24, RSA+20, RE20, RE22, SOV21, SCB20, SPF21, SGPW21, SYAM23, SEG21b, SV23, SC22a, SLBH23, SYL23, SYC+23, SAS+21, SK23a, SRD20, SPZ22, SKTK21, SKCM22, SYY23, SZW+20, SLOZ21b, SLOZ21a, TKK22, TT22b, TT23, TZM+20, TGS+22, TNF23, TSM24, UBT22, UD22, VTC20, VFBD23, WTF22, WQZP20, WH22a, WZWZ23, WLKR23, WH24, WYS20, WABK21, XLXC20, XJN+20, XS20, XHX22, XYL22, XC23b, Yan23, YGW+20, YZSD21, YLW21, YKLL21, YYJ+23, YPX24, YFY22, Yok24, YL21a, YH22b, YDC22, ZEG21, ZX20, ZXBS22, ZLG+23, ZCYS20, ZCL20]. **flows** [ZMWS22, ZSsC+22, ZSZ23, ZWLG23, ZYL23a, ZWY+23, ZYL+23b,

ZFAA24, ZSY24, ZR20, ZLW+21, ZCY+21, ZZN22, ZWS+24, ZSQ21, ZPS+21, ZO21, ZGK+22, ZWB21, ZOEL20, dSLdA+22, vNGB22]. **fluctuating** [MGP+22, MTK22, RPA22, RPDO+21, YR22]. **Fluid** [CMPZ22, DJ20, FMB20, HBBN24, KIHB21, MS20a, MKB20, VSS21, ALMF23, ASW21, ASS21, ASVL23, BAT23, BL22a, BV20, BV21, BTZ22, BVRS22, BFI22, BL21a, BKC23, BPG21, BBKB21, BSZ+23, BBL23, BTL23, BGQ+23, BFST23, BSP21, CLB23, CAF+22, CFJF23, CSM23, CNC21, CSMH24, CSF+24, CPGD20, DS23a, DC21, DSS20, DS21, DC22b, DGPP22, DFJ20, EG20, FTP20, FW24, FADJ20, FGL+22, GDLL22, GQF23, GDJ24, GH23, GN23c, HdB20, HLA20a, HZTN21, HSXZ21, He22, HPX23, HLPX24, HVB21, HL22b, HW20a, HGZ23, HM21b, HSB20, HT20, IMJ20, JAW+23, JRY+20, JLCT22, KBG23, KBS+21, KWR+23, KV23c, KKS+21c, KCP20, LPM+20, LB24, Lem20, LLD20, LDLW21, LZX+22a, LQXM22, LZ22b, LOL22, LLF23, LPH+24, LHT21, LRW21b, LBM20, LSLH20, LT20b, LSZ21, LFL+22, LMPT24, LMR20, LHFH20, MWY+20, MWS24, MST24, MJ23]. **fluid** [MHWY21, ML20, ML24, MT21, MRT+22, MD22, MMRP22, MMdMB22, NIT21, NG22, NAZ22, NZRH24, NZXM21, Nor24a, NKA+20, OB20, ÖL23, OSL22, PR24, PSJ23, PPV+21, PAM23, PBVC22, QKG21, RMJ23, Rei22, RV22, RRBR+23, RPA22, SOSM20, SBH21, SCB20, SMK23, SPF21, SRV21, SYL23, SC22b, TF20, VT23, WCM+21, WLL+23, XS20, YLW21, YTWK23, YK20a, ZZML20, ZZC20, ZRH21, ZQC+23, ZSL+23, ZJSX23, ZMW23, ZBP+24, dKSA21, KB22a, PJR23]. **fluid-electron** [SC22b]. **fluid-fluid** [BTL23, HT20, OB20]. **fluid-infiltrating** [GN23c]. **fluid-kinetic** [HSB20]. **fluid-level** [MMdMB22]. **fluid-particle** [HW20a, LDLW21, ZQC+23]. **fluid-poroelasticity-structure-contact** [ASW21]. **Fluid-reduced-solid** [HBBN24]. **fluid-rigid** [OSL22]. **fluid-solid** [CLB23, HVB21, JLCT22]. **Fluid-structure** [VSS21, ASS21, BFI22, BPG21, BBKB21, BFST23, CFJF23, CPGD20, FW24, FADJ20, GQF23, HLA20a, HSXZ21, He22, HGZ23, KBG23, KBS+21, KWR+23, LLD20, LOL22, LRW21b, LT20b, MWY+20, MJ23, NG22, NZXM21, PBVC22, QKG21, RMJ23, TF20, YK20a, ZRH21, ZSL+23]. **fluid/free** [JRY+20]. **fluid/ghost** [SYL23]. **Fluids** [DKM+20, BSW24, BBV23, CY22b, CHL20, DEvW20, FL23b, HdB21, HSK+21, HKJ21, JF20, KAO+20, KSK+24, LRT13, LZH23, MWY+20, MMM23, PC23, QWZ+23, SK23a, SWHJ22, TWY22a, UBT22, WTF22, dv23a]. **Fluids-membrane** [DKM+20]. **Flux** [CKLZ23, GMD22, HKW24, Kiv21, PKL+21, RHD+24, WWN+22, ASKH21, AKWY20, BKC22, BTKP24, CNC21, CBY23, CN21, CND22, CDN+22, DGW22, DWM23, FSM+22, HYQ20, HTLY23, HJQ+23, KJdM+22, KLX23, KdL20, LLO23, LSZY20, LFZ21, LDC23, LsCxL+20, LLD+22, MÖR24, MGRRVR23, Nis22b, PV22, RRG24, SYOS19, SYOS21, SHM23b, SS22c, SOBP22, TNB21, Tow20, WBN21, WGY20, WWJ24, WLL+23, Xia21, YU22, YFY22, YOH+20, dMKJ+22]. **Flux-aligned** [WWN+22]. **flux-based** [BTKP24]. **Flux-corrected** [HKW24, Kiv21]. **flux-differencing** [MGRRVR23, RRG24]. **flux-enriched** [WBN21].

flux-limited [LDC23]. **Flux-preconditioning** [GMD22]. **flux-tube** [SOBP22]. **fluxes** [CBF22, DC23, EG20, Nis20d, Ran22, SCdHJ20, YJSX22]. **fly** [ASVL23, Qia22, WZ23a]. **FMM** [CTG23, Sel22]. **FMM-accelerated** [CTG23]. **FMM/BEM** [Sel22]. **foam** [ZABP+24]. **focus** [CHS20]. **Fokker** [AC23, BF24, CH22, MPZ24, NGK+21, SS22a, SMAY22, ZWS+24, BSW24, FN22, GT21, HGH20, HLXZ21, HJJL20, KJ24, Le21a, LJH23, LRW21a, LWX24, RB24, RHC+24, SH23b, TWL22]. **following** [Bal21]. **force** [ACHG+21, CLLL20, CSM23, Heu21, HLA20c, HX23, LZX+22b, LKG+20, LKJL22, Nis22a, PBZ24, YP22, ZMTZ24]. **force-balanced** [CLLL20]. **force-based** [CSM23]. **forced** [AXWF23, KSK21]. **forced-flight** [KSK21]. **forces** [Ish22, Yan23, YP24, ZTS20]. **Forchheimer** [FGTY23]. **forcing** [BBGT21, BSLM24, Chi23, GF21, Hig22, JG21, KKSY21, QG21, SL23, ZB21c]. **forcings** [KH21a]. **forecast** [ZJ23]. **forecasting** [CPH+22, HMMO20, KH21a, LO23, LBT+23]. **forests** [SSG21]. **form** [Bal20, CCE+22, CND22, Edo22, HRRHG21, HWDM22, KSBG20, MD20b, OP20, PT23b, RRG24, SKTK21, SE24, TXH+21, TSTH20, WKW+22, XZW21, XZRW21]. **Formal** [KLPR20]. **formalism** [CC22b, FDP20, LL21c, WRH20]. **format** [SC22c]. **formation** [MSK+22, ZZW24a, ZBB21]. **formations** [XHS23]. **forms** [AHH+24, GMRS20, KK22b, LKEM21, MF24]. **formula** [DZC+23, Kan20, KDL23, Nis20a, RRG24]. **formulae** [YRC+21]. **formulas** [Gla21, Nis22a]. **Formulation** [BBDT21, DGS20, AFS+23, BTL23, BE20, CPTR23, CPGD21, CPGD20, DFGR20, DZGP24, EJ23b, EFO19, EFO20, GGM+23, GPHAPR+22, GLT+20, HPW21a, HLB20, Heu21, Hig22, JW21, KSW22, LGY+20, LHC22, LLL22, LGL23a, LHT21, LMZ+21a, LMK21, LLN22, MS20a, MGRRVR23, MCT21, MFRZ22, MD20c, MS20b, Nor22b, PHHJ22, PCB21, PRO22, Rei22, Sar21a, Sel22, SMRW22, LF24a, TLKK23, WCBQ24, Yan21a, ZSY21, HJ24a]. **Formulations** [TLWM20, DY22c, FMT23, GS23, KGN22, LL21a, LJZK21, LWN24, MHA23, Mar20, RWdBAG23, TBD+20]. **Forward** [CCMC20, BS22b, BJW20, CZ22a, CY22a, CCB22, FCY+20, GGM+23, GWZ22, LG20, LWZ22, LMK21, PMSP23, RB22, TZ24, VAK+23, YMK21, YNDH22, ZZZG23]. **forward-backward** [CY22a, LG20]. **foundation** [KNG22, KGN22]. **Foundations** [BL21b]. **four** [FMS21, RR22]. **four-phase** [FMS21]. **four-way** [RR22]. **Fourier** [AWP23, DC22a, FFY21, GM23b, GKRS22, HQ20, Lak20, LXY23a, MKB24, MYZ22, MFS+22, Per23, RHG22, SJGC21, WWG20, WWZZ24a, ZJZK20]. **Fourier-based** [AWP23]. **fourth** [BKMM24, DL24, FZ20b, GU20, HCL20, HSW22, JRD22, LZ22a, MZ22, OGG20, RZ23, XY20a, Yin21, ZLW+22a, vHP22]. **fourth-order** [BKMM24, HCL20, LZ22a, MZ22, OGG20, XY20a, Yin21, ZLW+22a, vHP22]. **fraction** [Cam21]. **Fractional** [BHNS23, HZD21, KS22a, SW23, ASSZ21, BL20, BCJM20, BSW24, CCJW24, CA22a, DGW20, FTPB23, GLLM22, GC23, HLM+20, HKKS21, HHRA19,

HX21, HL20b, HRG20, LSC20a, lLTZ20, LPG+20, MD20a, NMGR21, Pan20b, PCB21, PCB22, PSRM20, QW22, WCF+21, YLNT20, YWClL22, YW22, YWLL21, YZZZ22, Yua21, ZJZK20, ZOG21b, ZMG+22, ZLW23]. **Fractional-step** [BHNS23, SW23, PSRM20]. **fractionally** [KS22a]. **fractions** [KLB23, KB23]. **Fracture** [BBV23, RHD+24, BVRS22, BDMP22, Che23b, Da22, DAJ22, HSG+22, KSW22, ND20, NLZ+22, POS+20, SBVW20, WY22a, WY22b, XY20b, XHY23, ZA21, ZHPZ21, ZR24a]. **fracture-matrix** [ZR24a]. **fractured** [AdDMT21, BHVJ22, FS21, GSFH22, HdB21, JP23, KFSM21, KLPR20, LM23a, LCWH23, ML23, PPV+21, Vas23, XHS21, XHY23, YKFH23, ZA21, ZR24a, ZSKN22]. **fractured-porous** [PPV+21]. **fractures** [FGF22, HdB20, XHS23, ZF20]. **fracturing** [BR22b]. **fragmentation** [KOM+22, Sin21, SMRW22]. **Frame** [OLP23, AFP22, PBJ+22]. **Frame-invariant** [OLP23]. **frames** [LHC22]. **framework** [ARTB20, ALC24, AP23, BS22a, BPBM23, BNP+22, BNT23, CZ23, CHCC23, CLDC20, CSF+24, CHL20, DZJ22, DA23, Den23, DEvW20, DBD21, DPX23, DGS20, DL24, DGW22, EM20, FSWA23, FGF22, GQF24, GGEJ20, GAB22b, GN23c, HJQ+23, HTDL24, JN20, KK20a, KVH20, KH21a, KRL21, KCT+23, LFA21, LHXZ22, LW22a, LOL22, LT23, MLL+24, MO22, MST24, MCGN24, MHW22, MCI23, MMdMB22, MMM23, NGZD22, ORCVG24, PJZ+23, PBGB21, QERT20, RWDG22, Sar21a, TMG20, TPB22, VT23, WDL+21a, WMTQ20, WWYC21, WWFM22, WWJ24, WH24, WA23, YCH21, ZMQ24, ZXBS22, ZLG+23, ZL21d, ZW22, ZSM22, ZJ21, ZBY+23]. **frameworks** [PBN+21]. **Fredholm** [HJ22]. **Free** [YLLG24, ADK+21, ABH21, ASG+23, BCC+24, BRZ+23, CDL21, CGJM21, CKN22a, CS24b, CCdS20, CMNS21, DLYZ23, DW20b, EFR21, ELSV22, EdLCCCO24, FZB+23, Fu20, GQF23, GMMS22, GDB23, HNS20, HYM20, HT21b, HXQL23, JKZS21, JRY+20, JZL+24, JJ21, KTBP20, KSH22, LZT+23, LL21a, Lév22, LZZ21b, LLF23, LXY23a, LM20b, LZLS21, LMZ+21a, MZ22, MRK+20c, MSK+22, NMR+21, OY21, PH22, PTT24, PLKM22, Pop20, PWB24, RCSS24, SL20a, SBH21, SMK23, SWG+20, SGW+23, SCS22, SHM+23a, SY21, TCW24, Toh23, WZ20, WP21, WDS22, XY20a, Xu24, YKLL21, YYJ+23, ZYL23a, ZZZH23, ZLQS24, ZIMA24, ZYY23, ZY24, ZR24b, ZZL24, vdEW23, PRKS23]. **free-boundary** [EFR21, MZ22]. **free-energy** [MRK+20c, NMR+21]. **free-energy-based** [HT21b]. **free-flow** [SGW+23]. **free-stream** [ZZZH23]. **free-surface** [GQF23, HXQL23, JKZS21, LZT+23, LMZ+21a, MSK+22, Pop20, SHM+23a, YYJ+23, ZYL23a, ZR24b, vdEW23]. **freedom** [PZZ+23]. **freely** [SK23a]. **freezing** [LWZ+21, SDP20]. **frequencies** [FCGKR23, LLS24a]. **Frequency** [vHG+22, AMG23b, Ani21, CBF22, EJ23b, GLT+20, HHK+23, ILX22, JL21a, KP23a, KF23, LE21b, LLS24b, LL23b, MGA20, Shi23, SH22, SZ21, TBM22, TZNHD20, XSC21, YCC+22, ZSST23]. **frequency-dependent** [LLS24b, Shi23, XSC21, ZSST23]. **frequency-domain** [AMG23b, KP23a, TBM22]. **Frequency-robust** [vHG+22]. **frequent** [SYC+23]. **frequential** [PR24]. **friction**

[CFS+22, GBLT20, WWYC21, YYX21]. **frictional** [BDMP22, MCT21]. **Friedrichs** [OKTD21]. **friendly** [BZC+22]. **front** [BTCV22, GEvWD22, GHE+23, HW23, IKP22, LTBM23, SLBH23, TZ21, FO22]. **front-tracking** [BTCV22, HW23, IKP22, SLBH23, FO22]. **fronts** [CNB+23, Liu21]. **Froude** [HXX22]. **Frozen** [HXZ23, HRMY20]. **FrSI** [HBBN24]. **FSC** [EPL21, EPL22]. **FSI** [BCPV21]. **FSISPH** [PRO22]. **FT** [GB22b]. **FT-GCR** [GB22b]. **Fuchsian** [BL21a]. **Full** [AN21b, EdCC+23, EEG22, Yok24, AT20, AMG23b, AL21, BS20, DKM+20, DW21, Dup21, LMHL21, MCBA20, QCWC23, TZM+20, YWN20]. **full-body** [QCWC23]. **full-field** [YWN20]. **full-potential** [Dup21]. **full-range** [MCBA20]. **Full-variable** [Yok24]. **Full-waveform** [AN21b, EdCC+23, AL21]. **Fully** [CK21, FTK23, LYS22a, LLCK20, MÖR24, TBM22, VAK+23, WZSC22, YH22a, Abg20, AT20, ATCS20, BB20a, BGGM22, BKON23, CY22b, CYS22, CKLM+23, CEBG22, CMS+22b, DDVO21, FCWS22, GTWJ24, GBLT20, GNF22, HHS22, LSS20, LTD+21, LTE23, LLD20, LTT21, LCP23, MJ23, NPP24, PP22b, PGMTP23, QCWC23, RMJ23, RR22, SM21a, SRTB21, TCK+22, TH23, VMO21, Yan21c, YTK22, ZA21, ZHY22, ZSST23]. **fully-decoupled** [CY22b, Yan21c]. **fully-discrete** [GTWJ24, HHS22]. **fully-implicit** [TH23]. **fully-ionized** [CMS+22b]. **Function** [BB21, WL24a, BB23a, BCJ24, BSVL24, CJT+20, CL20c, DYMC20, DFJ20, GMB+22, GKRS22, GKNÖ23, GKNÖ24, HZTN21, HYM20, JYY22, KLN20, KL22, LSC20a, LLLL23, LYS+22b, MGL21, MK20, Ste22, TVL+22, TPYX22, WCC23, YZZ24, YDC22, ZCH22, ZCYS20, ZY24]. **function-based** [LYS+22b, ZCYS20, ZY24]. **functional** [AFL22, BGSP22, LRVF22, MYM+22, RPDO+21, TMG20, VGK21, WZ21a, YB22]. **functionalized** [ZOWW20]. **functionals** [CX22a, FRW+24]. **functions** [ABBG23, Bar21a, BFL20, CCL22, CLC24a, CCM+22, CHKL23, DN21, DW20b, FZS+21, FFL+23, FL23a, GJL20, GD21, Hac21, JKK20, KKN20, KLW24, KEY20, KB22b, LCL22a, Li22, LR23, MO22, MMKM24, Per23, PKL+21, PRPK23, PKK22, WQZP20, WSAZ22, WGH23, WWZ20]. **Further** [LZZW24]. **fusion** [BS22b, PGR+23, ZYY+24]. **FV** [BBD+20, MST24, NCQ22, PWH+22]. **FV/FE** [BBD+20]. **FVM** [MXL+24].

gain [BCC+24]. **Galerkin** [AG24, LMFV22a, ZCQ20a, ADK+21, AdS22, AÖR22, ARR23, ALM23, AMM+20b, AMM20a, ADM22, AM22, AHWZ20, AMM23, BL22a, Bal20, Bal21, BRT22, BZSF20, BCF22, BGGM21, BKY21, BWG+20, BBMA23, BNN20, BDP23b, BV22, BPVE24, BX20, CHS20, CQY21, CBQ21, CWW22, CK20, CLW22, CLDC20, CTG23, Che23b, CZL20, CKLM+23, CBBI20, CI21a, CI21b, CJK24b, CJK24a, CX22a, CX22b, CCB22, CCN23, CMRR21, CSS24, CLS24b, DEN22, DY22a, DCGQ20, DH20, DHR20, DLSvW24, DMC+23, DY22c, DY22d, DSZ22, DYZ24, DT20, DZGP24, DK21, EM20, EH22b, FMWK20, FHWK21, FGKY22, FCL21, FX22, FCY+20, GQR21,

GK20, GMSLC24, GAB22b, GC20b, GAC20, GHTC21, GLLM22, GMJ24, Hac21, HMV22, HYQ20, HTL21, Heu21, Hig20, Hig22, HSMR20, HQ22, HR20, HLY20, HABG23, HLQZ23, HYH24, JTW22, JKJ20, JK20, JJ21]. **Galerkin** [KNLB21, KGBT20, KR23, KMF23, KSBG20, KMF20, LCS22, LTD+22, LSXC20, LWR20, LLNL21, LLL22, LGZC24, LCT23, LC24, LM20a, LSZ21, LMFV22b, LAN21, MSC+20, MYJ+23, MN21, MÖR24, MRK+20a, MRK+20b, MRK+20c, Mar20, MOBR22, MGMV22, MPZ23, MCF23, MAPS20, MFdSS24, NdlLPL21, NMR+21, NMR+22, PP22a, PKG20, PZ20, PR23, PBN+21, PH21, PS22b, PD21, PPB23, QJL23, QLY21, RMD20, Ran23, RWdBAG23, RLD24a, RSSK24, RBD+21, RRHH+21, RRFK+21, SSK20, SLWRG21, SL20b, SL22b, SMAY22, SCdHJ20, SJGC21, SKCM22, SP22, LF24a, SX20, SSX22, TCS22, TCR+20, TH23, VCNC+21, VCCN+23, WRH20, WTX+21, WR23a, WKW+22, WX24b, WZL21, WBH+24, XSSS22, XS22a, XS22b, XS23, YYX21, YX22, YK20b, YKFH23, YH22b, Yua21, ZSP20, ZB21b, ZS22a, ZCQ19, ZCL20, ZZ20, ZC23, ZZYX20, ZR24a, ZQS20, ZYD20, aZWY23, ZZL24]. **Galerkin** [dLF23, vGAtTBI23]. **Galerkin-Finite** [GAB22b, MYJ+23]. **Galerkin/Hermite** [BCF22]. **Galilean** [LM21a]. **games** [ALFN22, FLOL23, HYCL23, LFY21, MYZ22, YLLO23]. **Gappy** [NS23]. **gaps** [BCJM20]. **Gas** [Cap23, LLZ23c, MA21, PLX24, SDA+21, BAT23, BJC23, BTKP24, CPX21, CPX22, CZL20, CCE+21, DEvW20, EM20, FZLL20, FCTZ24, GMNY23, GDB24, GAB22b, HGH20, HLA22a, JZB+24, JZSX20, JZSX24, Kem23, KJ24, KWCS23, LVK+22, LCJ20a, LLZ+20a, LLQC21, LLQ+23, LLS24b, LZX20, LZZW24, LCJ+20b, MZC+22, NBR22, PZX20, PZZ+23, PR20, SH23b, SKT20, Sar21b, SLWRG21, SYL23, SYC+23, SSS20, SKCM22, SGLP23, SZW+20, TZM+20, Uil20, Unf21, VFBD23, WKK24, WNZ20, WCP23, WZX24, WA23, WABK21, WLZP21, XLXC20, XCL+21, YGW+20, YJSX22, YPX24, YLLG24, ZCYS20, ZS21a, ZL21b, ZLW+22a, ZWLG23, ZZN22, ZJSX22, ZGX24, ZG20, ZPS+21]. **Gas-dust** [SDA+21]. **gas-gas** [CZL20]. **Gas-kinetic** [PLX24, CPX21, CPX22, JZSX20, JZSX24, LCJ20a, LLZ+20a, LLQC21, LLQ+23, LLS24b, LZX20, PZX20, WCP23, WZX24, WLZP21, XCL+21, YJSX22, YPX24, ZL21b, ZLW+22a, ZWLG23, ZJSX22, ZGX24]. **Gas-liquid** [MA21, WABK21]. **gas-particle** [MZC+22, TZM+20]. **gas-water** [CZL20]. **gaseous** [SFP+20, WTZB23]. **gases** [FHJ22, OBB22, WLZP21, XYL22]. **gauge** [HJK+21]. **Gauss** [BEP+20, DBT+20, HSH20, LXD+20, MGRRVR23, PPHO22, RRFK+21, RRHCG23, SLQW22]. **Gauss-kriging** [HSH20]. **Gauss/anti** [PPHO22]. **Gauss/anti-Gauss** [PPHO22]. **Gaussian** [HXZ23, ABOS22, BBH23, BKY21, BGH21, CZ23, CL20b, CHOS21, CCN21, DS20, HRMY20, HNR23, HWZ24, IT22, JLRZ20, LT20a, MY23, MRT+22, MYZ22, STG20, STB+21, WLPK20, WSAZ22, XCL22, YBST24, ZXMK21]. **GBS** [GRC+22]. **GCR** [GB22b]. **GDM** [BBH+20]. **Gegenbauer** [FA22, KYO22]. **GEGS4** [WMTQ20]. **GEGS4-1** [WMTQ20]. **GENE** [MND+20, RHSK21]. **GENE-3D** [MND+20]. **General**

[CD22, SOSM20, ZPS+21, AT20, ASW21, ACÉ+22, Ara20, BD20a, CS20, DGGL22, GYWH20, GQF24, GKNÖ23, GKNÖ24, GKA22, HKS20, KAO+20, Lem20, LZS22a, LHA+21, NNL+20, PGTS21, RBPRST20, Sha21, TT22b, TT23, YSC23, YH23, ZML20, ZW22, ZZZ20]. **generalised** [PHHJ22, PB22, Poë22, Poë23, SPF21, TGS+22, WDK22]. **generalizable** [ZXLH23]. **generalization** [GCSH22, RR21b]. **Generalized** [AEGV22, CGC21, CCHS20a, DJ22, DJ23, JLYH24, Kan20, LLLO21, Nik23, WTX+21, ZS21a, BCG+20, CSM20, CX21, CHF21, CNC21, CPA+23, DCHF21, DC21, DS22b, EAK20, FCM20b, FZ21, GB22b, GGEJ20, GLLB20, GDF21, HVD23, HQ22, KP23b, KBCH20, KBB+20, KD21b, LS23, LW20a, LZZW24, LWN24, MCP23, MCVF22, MRG21, MPMD20, Osi20, PGC24, RRBR+23, RWY21, SYL23, SYC+23, Sin21, WH22b, WK24a, YD20, YRHN22, ZS22b, ZS24, AEGV22, BBH+20, GTKA20, GKA22, MBM+23]. **generally** [LTDC23]. **generate** [DBD21]. **generated** [AWB+20, LX21, NTSM20, TVL+22, TSS+20, WXZ22]. **generating** [CP22b]. **Generation** [KKN20, ADM+21, BGR20, CL23a, CLW+24, KL20, KKM21, LPS21, MN22, VCNC+21, WWN+22, YJK21, YKdHC20]. **generative** [GN22, KS22d, RK21, WW20a, WD23, WKA+20, XZ22]. **generator** [PWXY22]. **Generic** [HLL23, ADJ23, HX23, KKN20]. **genetic** [XCZ20]. **GenMod** [WD23]. **Gennes** [GC20a]. **gentlest** [LXY23b]. **genuinely** [QSZB20, WK24b, ZQS+21, ZQL+22]. **geodesic** [BR23, tH22, ZAMG20]. **geological** [KFSM21, KH21b, XHS23]. **geology** [ND23]. **geomagnetic** [CDG+24]. **geomechanics** [BKMC21, DZJ22]. **Geometric** [CGL+23, LPH+24, BGNZ22, CVM23, CSF+24, CMS23, CS21c, EBC+22, DPI24, KV23a, MMZR21, PP22a, PCD23, RGSR21, RAZA21, SMV22, TACO22, ZP20, dPS24]. **Geometrical** [BMV22, HCL22, FMB20, LBN21, MKB20, PL20, ZZN22, vGAtTBI23, vGAtTBI24]. **geometrically** [BLBM24]. **geometries** [AZV23, BLK+23, BG20c, CCM+22, Chi23, CLP21, CLPP24, DFW22, GAB22b, GFF20, HST22a, JHY21, KM22b, LLN22, MWY+20, MBE21, MRZ21, RKA+23, SV23, SRTB21, SY21, SBCL24, Ste22, TB21, WZBV20, XLS22, YGL20, YB22, ZG21]. **geometry** [BT22, CLB23, DS20, FLZ20, FDH+24, FLW20b, FLW+23, GSW21, Gar21, LZ24a, LHM20, LJZK21, MJ23, MBBV22, QJL23, SYOS19, SYOS21, TNB21, VCPGR20, Xia23, YKH24]. **geometry-adaptive** [GSW21]. **geometry-informed** [YKH24]. **geostatistical** [ZZK20]. **geostrophic** [CHT20, DNO23]. **Germano** [TL21]. **ghost** [ACR23, BL22a, BV20, BV21, CAT20, CSM23, CSLC21, Coc20, CMS23, EG20, JG21, LL23a, LSZ21, LCP+24, OCGT22, SYL23, WCF+21, ZZ24, ZL22]. **ghost-cell** [CAT20, CSLC21, JG21, LCP+24, OCGT22]. **ghost-cell/level-set** [LCP+24]. **ghost-point** [ACR23, Coc20, CMS23, LL23a]. **Gibbs** [CS21b, RS20c]. **Gilbert** [CCWX22a, LXD+20, YCH21]. **GINNs** [HTKT21]. **Ginzburg** [HMXC23, ZOG21b]. **given** [PGS22]. **glacier** [Bri22]. **glaciers** [HPS23]. **gLaSDI** [HCF+23]. **Glauert** [BRT22]. **GLM** [CPGD21, DFGR20]. **Global**

[Bha20, CV23, FFGRLS+20, MÖR24, Mar23, SSPV20, BKON23, HVD23, LT22a, LP23a, MND+20, QCD21, STEK17, STEK22, SMS23, SOBP22, WK20, Yan21a]. **global-local** [HVD23]. **globalization** [CKLZ23, KLX23]. **globally** [KBCH20, WZ23a]. **Glowinski** [AFP24]. **GMLS** [GTKA20, GKA22]. **GMsFEM** [CP20]. **Goal** [DSSSP20, JO22, AF21, FC21, FRW+24]. **Goal-based** [DSSSP20]. **Goal-oriented** [JO22, AF21, FC21, FRW+24]. **Godunov** [sCpLL+22, GCLM22, HKS20, LL21b, MMM23, WBN21, XZC21, XGQ+23]. **Godunov-type** [sCpLL+22, GCLM22, LL21b, XZC21]. **Gordon** [CY23, GLLM22, HHSZ24, LSZ23b, SZ21, AZ22, JWC20, SQSS20]. **governed** [HZY22, SRH21]. **governing** [RN23, TL21]. **GP** [BL22b, HKL+23]. **GP-IDENT** [HKL+23]. **GP-MOOD** [BL22b]. **gPC** [Poë22]. **GPR** [DD22b]. **GPU** [LZC+23, RKA+23, SAL+20, WCP23, WWJ24, ZBY+23]. **GPU-accelerated** [RKA+23]. **GPU-based** [WWJ24]. **GPUs** [CDK+23, ZO21]. **Grad** [ELSV22]. **Gradient** [CBA+20, DBT+20, GN23a, HSW21, HW20a, AE20, BZ20, BCC+20, CL21, Cha23, CN22, CDZ23, FOL23, GWC+22, GZW20b, HEG23, HCCR22, KS22a, Kar22, KNS21, Lem20, LLW20b, LLOL24, MMS24, PHX23, SML20, TT22b, TT23, TWF+20, WQ20, WDL21b, WDL21c, WK21a, Wan22, WCKS24, YHC+22, ZEG21, BMQ20]. **Gradient-based** [CBA+20, GN23a, Cha23, CDZ23, GWC+22, KNS21, YHC+22]. **Gradient-consistent** [HW20a]. **gradient-index** [SML20]. **gradients** [NW20, WH22a]. **grained** [BT21, JZB+24, RK21]. **graining** [CPX21, EASA23, KK20a]. **Gramians** [PR24]. **granular** [AFMP24, BFNK+21, EM20, GdFP+24, LY20a, MMLL+24, YYJ+23]. **Graph** [FBD+22, HTKT21, BSVM23, BZ23, CCPS21, PMH24, PGS22]. **Graph-based** [FBD+22]. **Graph-Informed** [HTKT21]. **graphene** [SML20]. **graphics** [BEP+20]. **graphite** [ST24]. **graphs** [THH22]. **Grassmann** [OA21]. **grating** [PM22b, PLM23a]. **gratings** [CEW23]. **gravitating** [SLWRG21]. **gravitation** [DYZ24, RWQX23]. **gravitational** [GGH+23, JTW22, LG21, UHZ+24]. **gravity** [AFV20, DDVO21, MFRZ22, TAWD23, TPK20, WKW+22]. **gray** [XSSS22, XJS21]. **Greedy** [SHJ+23, ACDV24, DFP+21b, FZS+21, HCF+23]. **Green** [BB21, BB23a, GKPT22, RHSK21, TGM23, VGK21, BFL20, CCM+22, DBT+20, DYMC20, GMB+22, GKRS22, GD21, Mar20, MGL21, NMN23, RB22, TPYX22, YZZ24, YDC22]. **Grid** [CB23, KFSM21, AWB+20, AWB+21, BV20, BNP+22, BCR22, Cam21, CPTR23, CSM23, CLP21, DZJ22, DFG+23, DNO23, DC22b, FAHA20, GCLM22, GCDT22, GS21, GHTC21, HdB20, tH22, HYP24, KNG22, KGN22, KT24, LFP+21, LW22a, MH22b, MMZZ22, OLP23, PS22b, PO21, PGTS21, PRPK23, QPW21, RS20b, SL20a, SWG+20, SGW+23, SGT23, SC22d, TJC21, TJM23, USRH20, Vre17, Vre20, Vre21b, Vre21a, XH24, Xu24, YLLG24, Yok24, ZLW22b]. **grid-aligned** [BV20, FAHA20]. **Grid-characteristic** [KFSM21]. **grid-free** [SL20a]. **Grid-point** [CB23]. **grid-robust** [USRH20]. **grids**

[AAH+20, AD20, ADM22, AM22, BHNS23, Bar21b, BCIT22, BR23, BWBT24, BG20b, BDF+23, BLM22, BST23, CDBS21, CZLC22, CDX+21, CW22b, CTCS22, CQA21, CLPP24, CIMG21, CPBB21, CA22b, DDR22, DVS22, DSS20, DLYZ23, DW20a, EGTC+21, Eld22, ELSV22, FL21, GAB+22a, DCC+24, Hac21, HRWP22, HX23, HJ24b, JGM+22, KKN20, KIHB21, KML23, KR23, KK21, LKM22, LL23a, LD20a, LWR20, LGZC24, LP23a, LCN20, LSZY20, Liu21, LYS+22b, LSY+23, LEH+21, LLCK20, MLL+24, MK21, MDF21, MWZ23, NMN23, NW20, Nis20a, Nis20b, Nis21, Nis22b, NW23, NÅ21, OP20, PA21, PGP+23, PBF24, RCSS24, RE20, SGB+21a, SCS22, SEG21b, SEG22, SC22c, SI22, VPDD22, WY22a, WY22b, XJN+20, XDLX21, XHX22, ZB21a, ZCY23, ZCL20, ZPW+23, ZWR24, ZL22, vdEW24]. **Gröbner** [VK24]. **Gross** [FJ21, FHJ22, AST21, BSZ+23, FZLL20, HSW21, Lak20]. **ground** [CL21, CDLX23, DZJ22, GD21, LWY+20, Wan22, ZCH22]. **group** [JWH20, YB22, ZSST23, HKL+23]. **group-IV** [YB22]. **grouping** [ASBM20, FZS+21]. **grouping-circular-based** [FZS+21]. **growth** [FH23, GPL22, HX21, JZK24, LHL+22]. **GRP** [LZ22b, LFW23]. **Grüneisen** [LZS22a]. **Grüneisen-type** [LZS22a]. **guaranteed** [KKA24, YD20]. **guarantees** [NPL+24]. **guess** [VdGP20]. **guided** [ACD23, CHZ+21, WCZ22, WZ24a, XZRW21]. **guidelines** [GDF21]. **guideposts** [LCC+23b]. **guiding** [AKK20, LAT+22, PK20]. **guiding-center** [AKK20]. **Gummel** [Kan20, NBR22]. **Gummel-based** [NBR22]. **Gurtin** [XLHB22]. **gyrokinetic** [MND+20, SOBP22, SC22d]. **Gyroscopic** [EJ23a, EJV22].

H [Pan20b, KRL21]. **h-adaptive** [KRL21]. **Hadamard** [WCBQ24]. **Hagedorn** [GR21]. **half** [GJL20, Sha23, YZZ24, BDFT23]. **half-plane** [Sha23]. **half-planes** [Sha23]. **half-space** [YZZ24, BDFT23]. **Hall** [GMJ24, LHF23, MH22b]. **Hall-magnetohydrodynamic** [GMJ24]. **Hamilton** [CSY20, DM21, FPT20, GHTC21, KNT22, RB22]. **Hamiltonian** [BDZ23, BRS22, CS20, CHSS20, DM23a, DCS23, EL24, GHS22, HHLS22, Hua21, LLZ23a, MPMD20, NFPSSA24, SDKL21, SX20, TJ22, TXH+21, VK24, ZQYS20]. **Hancock** [TYC23, TYC24]. **hand** [HJ22]. **Handling** [TPB22, XMY22]. **hard** [CHZ+21]. **hardness** [IL23]. **hardware** [HM21b]. **harmonic** [AHG21, DW20a, DV22, LE21b, MDG20, NZRH24, VCNC+21, RB21]. **Harmonics** [EDC+23, Gar20, Gar21, LS22, SL20a]. **harmonics-based** [SL20a]. **Harten** [Ran22]. **hash** [HA24]. **HCP** [CHZ+21]. **HDG** [AG24, Fu20, KGBT20, Mar20, MBTS20, Sev21]. **HDG-DG** [KGBT20]. **HEALPix** [DW20a]. **heart** [DVV22, DFP+21a, ZBP+24]. **Heat** [CL23b, ADK+21, CLS+20a, CL20d, CNCM21, HGV+21, HRG20, ID20, KS21d, LCS22, LYS+22b, OCGT22, TFCH22, WZCK21, WLL+23, XC23b, ZSZ23, ZYL23a]. **heated** [MCBA20]. **Hedging** [OGVM22]. **height** [HZTN21, HPS23, KRG+23]. **height-coordinate** [KRG+23]. **Hele** [CY22b].

Helfrich [NSS23]. **helical** [AB24]. **Helicity**
[HLX21, GGB22, LHF23, ZPGR22]. **Helicity-conservative** [HLX21].
helicity-conserving [LHF23, ZPGR22]. **heliosphere** [IK23a]. **helium**
[ST24]. **Helmholtz**
[BRT22, BNT23, CE21, CCM+22, DMRG22, DZ22, FJH20, FCL21, GKRS22,
JL21a, JWH20, LG24, LJ22, MBAG21, MCF23, SML20, SACT21, TCW24,
TZNHD20, TBG20, TY24, WCZ+20, YRC+21, YCC+22, YZZ24].
Helmholtz-curl [YRC+21]. **hemodynamic** [AP20, HSXZ21].
hemodynamics [BCPV21, QCWC23]. **Henry** [LLT+24]. **Hermite**
[GLLM22, BCF22, BNP+22, CQW24, FZQ21, GMJ24, LRW21a, LLWX22,
PDM23, ZCQ20b, ZQ20, ZZ23c]. **Hessian** [LL21a, WDL21b]. **Hessian-free**
[LL21a]. **heterogeneities** [SCdHJ20]. **heterogeneous**
[AFV20, AYH+21, ASJ23, BMQ20, CFSH20, Coa22, DT22a, DGS20,
FTY+22, FTPB23, FCL21, FP23, GTDB22, GC20b, JGR22, KNLB21, LN23,
LH21, MW22, MD22, ST24, SMW+22, TBM22, WL20, WSAZ22, YSCM21,
ZYL+23b, dSdCdMC+24, dSLdA+22]. **HEVI** [Bal21]. **hexahedral**
[GHY22a, KRL21]. **hexahedrons** [ML20]. **Heydari** [Pan20b]. **hidden**
[HYZH22, LZJ+24]. **Hierarchical** [KV23b, LSL20, BFS23, ESJ23, HRG20,
LY20b, PRPK23, RV20, TPYX22, WSG+24, XHC22, ZTS20]. **hierarchically**
[WCM+21]. **hierarchies** [PH22]. **Higgs** [MPMD20]. **High**
[BGH20, BKC23, BG20a, BD20a, BP21, CBQ21, CPX22, CF21, CSW+24,
CWX23, CSS20, CLS24a, CPGD21, DT22a, DY22d, DT20, DT21b, DT22c,
FHWK21, FLOL23, FOL23, FL23b, GBC+20, GCDT22, GGH+23, GLY20,
HEG23, HPPZ20, HLY20, HRWP22, HXX22, HNZ23b, HJQ+23, KV23a,
KS22c, KS22b, KLN20, KL22, KKSY21, KK21, LCL22a, LJW+22, LVK+22,
LMS23, LCS22, LCS24, LD20a, LSZ23b, LH20, LRAQ22, LC24, LZ24b,
LSY+23, MLL+24, MST24, NFL+21a, NFL+21b, NBR22, NKW22, PZX20,
Pan20a, PP22b, PBN+21, PSCK23, PGMTP23, PPB23, RMWS21, Say22,
SBL22, SST+23, VBA22, WLH21, XBH+22, XSSS22, XS22a, XM20, YU22,
YYX21, ZEG21, ZCQ19, ZCQ20a, ZX22, ZDT23, ZGX24, ZTZX24, ZQS20,
ARTB20, AP23, ASG+23, ALFN22, ASKH21, ADP22, AFP22, AP20, AH21,
AZV23, AMM+20b, ATS24, BCWD21, BAT23, BBH+20, BBF20, BDP23b].
high
[BL22b, BL21b, BPVE24, CG24, CDK+23, Cam21, CPX21, CBF22, Cha23,
CNBH23, CL20b, CL23a, CD23, CWT24, CSMH24, CND22, CDN+22, CLP21,
CLPP24, CCB22, CCdS20, CMRR21, CNCM21, CA22b, CLS24b, CCLM22,
CL23b, DHM21a, DM21, DS23a, DV20, DV21, DS22a, DC21, DLM+23,
DHR20, DY22b, DY22c, DYZ24, DJID20, DK21, DGW22, DWM23, EMP24,
EDEV23, EHL+20, FZQ21, FZQ22a, FMWK20, FZ20a, FML21, FX22,
GvR24, GDLL22, Gao22, GW23, GLF23, GS23, Gla21, GDB23, GZW20b,
GYZ21, GLCS23, GYC+23, GHTC21, HBFB20, HMV22, HPW21a, HLZ20,
HZD21, HGSK22, HLL23, HRRHG21, HKS20, HGB20, HKRS23, HL20a,
HZ22b, dMKJ+22, IW23, ILX22, JL21a, JZSX20, JLY22, KSTT22, KS23,
KTBP20, KV20, KBB21, KIHB21, KLG+22, KLF22, KdMJ+22, KJdM+22,

KF23, KD20, KdL20, KV23d, LPL+22, LCS23, LCJ20a, Li20, LCSZ21]. **high** [LLQC21, LG21, LCR22, LY22a, LLZ23a, LLQ+23, LLR23, LRW21b, LM20a, LS23, LSZY20, LFZ21, LYS+22b, LJS+23, LZ23, LsCxL+20, LZJ+24, LD22, LN24, LL23b, LZCC22, MLPR24, MCGN24, MHW21, MHW22, MGA20, Mon21, MAPS20, NS22, NZ24, NPD20, Nic22, NGK+21, NKA+20, ORCVG24, OWHN22, PWL+23, PPP21, PAA23, PM21b, PS22b, PTT22, PTT24, PD21, QG21, RUG20, RFZ22, RWQX23, Ren21, RWDG22, RZH20, RSA+20, SZN19, SZN20, SMSAGG22, SYAM23, SEG21b, SEG22, SRV21, SWF21, SAP22, SLF23b, SFNMF+21, SS22c, SZ21, SP23, SSS22, TFWX22, TTY22, TCS22, TL20, TWY23, TCA21, TJC21, TZNHD20, TJM23, TSM24, Uil20, VVRWT21, VOL23, VSB+22, WGY20, WTX+21, WTZZ23, WCP23, WX24a, WABK21, WZBV20, WGY+21, WWLZ21, XZ22, XDLX21, XHX22, XH24, XCL22, XBRL21, XHLH23, XHC24, YSCM21, YLW21, YJSX22, YPX24, YOH+20, YCC+22, YWLL21]. **high** [YJK24, ZSP20, ZBYZ20, ZB21b, ZZZ22, ZCZ22, ZLG+23, ZWY21, ZCY23, ZML20, ZL21a, ZL21c, ZC22a, ZC23, ZYZ+23, ZSY24, ZHR20, ZJSX22, ZJSX23, ZBY+23, ZSQ21, ZLW22b, ZO21, ZOEL20, dLF23, vNGB22, Der23]. **high-contrast** [AH21, CG24, RSA+20]. **high-dimensional** [ALFN22, BCWD21, BPVE24, CNBH23, CL20b, CWT24, DV20, DV21, DJID20, EMP24, EHL+20, GW23, GYZ21, HLZ20, HZD21, HGSK22, KTBP20, KV20, KLG+22, LLR23, LZJ+24, LD22, ORCVG24, TTY22, TL20, TWY23, WX24a, XZ22, XCL22, ZBYZ20, ZZZ22, ZCZ22, ZC22a]. **high-energy** [CSMH24]. **high-fidelity** [AP23, AFP22, BBF20, CL23b, DS23a, HLL23, SLF23b, XHX22]. **high-frequency** [CBF22, MGA20, TZNHD20, YCC+22]. **high-index** [ZYZ+23]. **high-Mach-number** [vNGB22]. **High-order** [BGH20, BKC23, CPX22, CF21, DY22d, DT20, DT21b, DT22c, FHWK21, FL23b, GCDT22, GLY20, HPPZ20, HRWP22, HNZ23b, HJQ+23, KS22c, KS22b, KL22, KK21, LCL22a, LJW+22, LVK+22, LMS23, LSZ23b, LH20, LZ24b, LSY+23, MLL+24, MST24, NFL+21a, NFL+21b, NBR22, NKW22, PZX20, Pan20a, PP22b, PBN+21, PSCK23, PGMTP23, RMWS21, Say22, SBL22, XBH+22, XM20, YU22, ZDT23, ZGX24, ZQS20, ASG+23, ADP22, AP20, AZV23, AMM+20b, ATS24, BBH+20, BL22b, BL21b, CDK+23, Cam21, CPX21, CBF22, Cha23, CND22, CDN+22, CLP21, CLPP24, CCB22, CCdS20, CMRR21, CNCM21, CA22b, CLS24b, CCLM22, DHM21a, DS22a, DC21, DHR20, DY22b, DY22c, DYZ24, DK21, DGW22, DWM23, EDEV23, FMWK20, FML21, GvR24, GDLL22, GLF23, Gla21, GDB23, GZW20b, HMV22, HGB20, HKRS23, HL20a, HZ22b, dMKJ+22, IW23, JZSX20, KS23]. **high-order** [KBB21, KLF22, KdMJ+22, KJdM+22, KF23, KD20, KdL20, KV23d, LCJ20a, Li20, LLQC21, LCR22, LLZ23a, LLQ+23, LRW21b, LM20a, LS23, LYS+22b, LsCxL+20, LN24, LZCC22, MLPR24, MCGN24, MHW22, MGA20, Mon21, NS22, NZ24, Nic22, NGK+21, PWL+23, PPP21, PM21b, PS22b, PTT24, PD21, QG21, RUG20, Ren21, SMSAGG22, SEG21b, SEG22, SRV21, SWF21, SAP22, SS22c, TFWX22, TJC21, TSM24, VVRWT21,

WGY20, WTX+21, WTZZ23, WCP23, WABK21, WZBV20, XDLX21, XH24, XBRL21, XHLH23, YSCM21, YJSX22, YPX24, YOH+20, ZSP20, ZCY23, ZML20, ZL21a, ZC23, ZJSX22, ZJSX23, Der23]. **high-order/low-order** [PM21b]. **high-plasma-frequency** [SZ21]. **high-pressure** [ZSY24]. **high-resolution** [HKS20, KIHB21, PAA23]. **high-Reynolds-number** [YLW21]. **high-speed** [DLM+23, HBFB20, HZ22b, NKA+20, TSM24, ZBY+23]. **high-throughput** [ZO21]. **Higher** [ASVL23, BBW+21, MMKM24, RCSS24, VVL21, VK22, YGL20, ZF20, BL20, CS22, DYGC22, GM23a, GCSH22, HYH24, IMJ20, LWZ23, PH22, WHS22, YK20b, ZZ24, ZQS+21]. **Higher-continuity** [MMKM24]. **Higher-order** [ASVL23, BBW+21, VK22, YGL20, ZF20, CS22, DYGC22, GM23a, HYH24, IMJ20, PH22, WHS22, YK20b, ZQS+21]. **Highly** [RMN+24, YM21, YZW23, ZQYS20, BFM21, BBKB21, CMR21, DDR22, DV22, FCY+20, FP23, Gao24, HP21b, KTDG22, KCT+23, KDB+20, LLZ23a, LL21d, MHW21, MD22, QCWC23, YL24a, ZD21, dSLdA+22, vdEW24]. **highly-concentrated** [ZD21]. **highly-curved** [vdEW24]. **highly-flexible** [KCT+23]. **highly-Stable** [BFM21, CMR21]. **Hill** [GLT+20]. **Hilliard** [CZ20a, GHHR22, LFT+20, ZLQS24, ZH21, CWW20, DWWZ21, FQSW23, Fu20, GCL+22, KLS+20, KSI+23, LHC22, LYZW21, MRK+20b, MRK+20c, NMR+21, NMR+22, QWZ21, SZQS23, VRK21a, WJKW20, Yan21b, ZWY21, ZY20b, ZOWW20]. **Hilliard-extended-Darcy** [LYZW21]. **History** [vL24, LO23]. **HLL** [FLW20b, KKL24, LFW23]. **HLL-GRP** [LFW23]. **HLLC** [CLJ+20, FAA20, HKS20, LZS22b, YJSX22]. **HLLC-type** [HKS20, LZS22b]. **HLLCEPJ** [Ser23]. **HLLD** [MM21b]. **HLLE** [LLS20]. **HLLE-type** [LLS20]. **HLLEM** [HYZ22]. **HLLEPJ** [Ser23]. **HMC** [CSASS21]. **hoc** [LD22]. **HODLR** [GA24, KKA24]. **hollow** [KKM21]. **HOLO** [PM21b]. **homogeneous** [GR21, HQ20, PZ20, TB23, WZW21, YSC23]. **homogenisation** [FBD+22, FTPB23]. **Homogenization** [HL20b, LJ20, BBPR21, CEL+20, EL23, GDAP20, LPM23, LLZ22, LLF+22, MBDS23, PLM23a, YSCM21]. **homogenization-based** [LPM23, LLZ22]. **homogenized** [PZ22, ZOG21a]. **Homotopy** [ZHH+24, JWH20]. **HOMP** [DC21]. **HomPINNs** [ZHH+24]. **Horizontal** [GS21]. **horizontally** [Bal21, LP21]. **Hosseininia** [Pan20b]. **hourglass** [SLQW22]. **hp** [MFS+22, RMD20, DS23b, MAPS20]. **hp}-adaptation** [RMD20]. **hp-adaptive** [DS23b]. **HPC** [WGU+22]. **Hugoniot** [GKL21, LZS22a]. **human** [DVV22, DFP+21a, ZBP+24]. **Huygens** [WR23c]. **HWENO** [JZSX20, LSQ21, LRAQ22, LLQ+24, ZZ23b]. **Hybrid** [BDF+23, FMWK20, HA21, MXL+24, MYJ+23, MFK21, RHD+24, ZS21b, AdDMT21, ASJ23, BFG22, BBD+20, CZ23, CXZ24, Che23b, Che23a, CNC21, CSS24, CCLM22, CCH20, DR20, ELLZ22, FZB+23, FZQ21, FW24, FGK22, FJ21, FHM24, FLW20b, GTDB22, GQR23, HPH+23, HL22b, HPRW20, HPW21b, HSB20, HTDL24, Ish22, Jai22c, JZL+24, JRD22, KKL24, KK22a, LCG22b, LSW20, LHPS24, LPH+24, LPJ+23, LLOL24, LLCK20, LWZ+21, MST24, MJS23, MRYS20, MMdMB22, NFA21, OYK+22, PM21a,

Poë23, RWBS21, SL22a, SRTB21, SHM24, SMY22, SCL20, SC22b, SMLM23, TY24, UHZ+24, VPDD22, WX22, WZWZ23, WX24b, WTZB23, XDLX21, XHX22, XY20b, XHY23, YGW+20, YRC+21, YLLG24, ZCY23, ZML20, ZFG21, ZFAA24, ZCQ20b, ZMTZ24, ZLW22b, ZO21, ZR24b, vGAtTBI24]. **hybrid-dimensional** [AdDMT21, Che23b, XHY23]. **hybrid-unstructured** [Jai22c]. **hybridised** [BGGM21]. **Hybridizable** [AG24, Mar20, CX22a, MCF23, LF24a, VCNC+21, VCCN+23]. **hybridization** [NPL+24, OGVM20]. **hybridization-based** [OGVM20]. **hybridized** [HR20, KGBT20, PV22, TH23]. **hydrate** [TZ20]. **hydraulic** [BGSP22, ND20, Uil20]. **hydraulically** [FGF22]. **hydro** [GN23c, RHR20, ZWN24]. **hydro-mechanical** [RHR20]. **Hydrodynamic** [EK21, NTSM20, WS22, CS24b, GTKA20, HP22a, HGZ23, Ish22, PLX24, VCCN+23, XHC22, ZTS20, aZWY23, MBM+23]. **Hydrodynamic/acoustic** [EK21]. **hydrodynamically** [BST23, Yan21b]. **hydrodynamics** [ATS24, BOB21b, BOB21a, BTL23, CQW24, CKT21, CW22a, CSS20, CLS24a, CVM23, CIMG21, DT21a, DT22c, FGZ20, GLF23, HNF+21, Iij21, KKS21a, KKS21b, LCS24, LMZ+21a, LM21c, MGP+22, MTK22, ME22, NKW22, OYK+22, PWL+23, QPW21, QJQW22, RPA22, RRHCG23, RRG24, SDA+21, XLHB22, XZC21, YKLL21, YTK22, YR22, ZRH20, ZZZH23, ZBY+23, ZAA23, BZC+22, FQSW23, HP21a, KEY20, LZPM22, LFL+22]. **hydrodynamics/radiation** [LM21c]. **hydrodynamics/radiation-moment** [LM21c]. **hydroelastic** [ZSL+23]. **hydrogel** [LZX+22a]. **hydrogenic** [HSB20]. **hydrostatic** [CN22, EdLCCCO24, GMMS22, Lee21, LP21, Pop20, RWdBAG23]. **hyper** [CGJM21, CJW22, HSH20, KS24a, ZXY22]. **hyper-parameter** [HSH20]. **hyper-reduced** [CJW22]. **hyper-reduction** [KS24a]. **hyper-singular** [ZXY22]. **Hyperbolic** [GKPT22, YcD20, YcD23, BKC22, BB20c, BL22b, CEMO21, CPGD21, CEM20, DD22b, DLWW22, DSZ22, DMK+24, GCLM22, GKL21, GS23, GPS20, HVD23, HHN+21, HJLZ23, JHT23, Kiv21, KNG22, KGN22, KMF20, KWF20, KdL20, LZZ21a, LSQ21, LLNL21, LF24b, Lin21, LWZ23, LD20b, LsCxL+20, LA21, LSTZ21, LpW21, LLQ+24, MD20a, MN21, Mar23, MYM+21, Nic22, Nis20b, Nis21, NG20, PMT+22, PGCC+22, QZHD23, SSK20, SLWRG21, SGB+21b, SAP22, TFWX22, TSTH20, VVL21, WX24b, XS22a, XS22b, XS23, XGQ+23, XM20, ZZ23b, ZHR20, ZH20, ZCQ20b, ZQ20, ZWQG23, ZR24b]. **Hyperbolicity** [DEN22]. **Hyperbolicity-preserving** [DEN22]. **hyperelastic** [BV22, LQXM22]. **hyperelasticity** [BLM22, FB22, TCR+20]. **hypergraph** [GDJ24]. **hyperparameter** [DY22b]. **hyperparameterized** [ACDV24]. **hyperreduction** [DY22c, WZ23a]. **hypersonic** [BEP+20, CCMC20, FCW21, NPL+24, PSCK23, PPB23]. **hypersonics** [MLM+21]. **hyperviscous** [LCP21a]. **hysteresis** [LLD20, ZY20a]. **hysteretic** [YZK20].

IBM [LOL22, LWZ+21]. **ice** [CPTR23, CFM22, HPH+23, IL23, LGL23a,

MK21, hSMLS23, TTP22, ZMZY23]. **ice-sheet** [HPH+23]. **icecap** [LL24a]. **icing** [ZSsC+22]. **icosahedral** [CIMG21]. **ideal** [BMBM24, CS21a, CMS+22b, DEvW20, DT20, LZLS21, LFW23, MSC+20, OBB22, RRHCG23, WGS23, ZYD20]. **ideal-gas** [DEvW20]. **IDENT** [HKL+23]. **Identification** [AP21, JP22, BSCG22, HCF+23, KLP22, NCC21, ZL21d, HKL+23]. **identify** [MNG+22]. **Identifying** [CDJM21, KB24, GGN+20, TLKK23]. **identity** [TL21]. **IEQ** [Yan21b]. **IGA** [LKEM21]. **II** [BOB21b, CEL+20, CPX21, CKLM+23, CJK24b, CBRY21b, DZ22, DZ23, KGN22, LLO22b, LQX22b, LR24, RRHH+21, TT23, TV22, YK20b, vL24]. **II.** [HJH+21]. **III** [LLZ+20a]. **illustrations** [BBL23]. **illustrative** [BLLL23]. **Image** [ZBB21, MTB22, YM20]. **image-based** [YM20]. **Imaging** [CDG+24, CHN24, LYZ22, LL24a, Par22, WGB22, YSTK20]. **IMEX** [YGJ21a, BDL+20, BP21, CB24, KGBT20, OBB22, PCQL20, TPK20, YGJ21b, ZTZX24]. **IMEX-DG** [OBB22]. **IMEX-LDG** [PCQL20]. **Immersed** [DNW23, KBSF22, KJdM+22, LWL22, LG24, Vre20, Vre21b, ALM23, ALCZ20, BBGT21, BBKB21, CDBS21, CBCT+21, CZCY23, CW22b, CFJF23, CAT20, Chi23, CSLC21, CCdS20, CPBB21, CL23b, DHK23, Eld22, FDH+24, GGCvR22, GvR24, GOF23, GBF+24, GF21, GL20, GLL20, GZ21, HP22b, HW23, IK23b, JHY21, JWZ20, JGvR23, JDB+23, JG21, KM22a, KBG23, KSH22, KBCG20, KCT+23, KdMJ+22, KF23, KKY+21, KT20, KKJ21, LS22, LG22, LHT21, LCC+23a, MWY+20, MPBG23, NG22, NLZ+22, OB20, OL20, OLS21, OSL22, OCGT22, PL20, PG20, QKG21, RKA+23, SRTB21, SC22a, TF20, TSM24, WGS+20, WZW21, WVRLG23, WLL+23, WBH+24, XSHH20, XC23b, YYB23, YP22, YP24, ZHPZ21, ZCY+21, ZR24a, ZB21c, vNGB22, HSS21, RB21]. **immersed-boundary** [CZCY23, GF21, LHT21]. **immersive** [LKvM+22]. **immiscible** [BBV23, JM23, KKS+21c, LRT13, LOL20, LZH23, MYY+23, VPL20, dv23a]. **Impact** [Nor24b, NW22, NKA+20, PR23, WLZ24a]. **impacts** [PRO22]. **IMPEC** [FGTY23]. **impedance** [CJSZ23, DNW23, DZC+23, FY20]. **imperfect** [RHG22]. **Implementation** [GMA23, LFW23, AFS+23, ATS24, BLLL23, CMPZ22, EBC+22, FMJ21, FMOJ22, FM23b, FM23a, HP23, LFL+22, MCGN24, PLM23a, VSB+21, WR23a, WZ21b, WK21b, ZA21]. **implemented** [DGGL22]. **Implementing** [HLA22b, FSB+20, LZX+22b]. **Implicit** [BEP+20, BD20a, KB24, LA21, MR23a, NGK+21, Poë22, SPZ22, YPX24, ZSP20, ZS22a, ALMF23, AT20, AG21, ATCS20, ALF+22, AFF+23, Bal21, BB20a, BBD+20, BZC+22, BP21, BDI+21, BCP22, CS20, CCY+20, CC23, CCGC23, CK21, CCN23, CSS24, CMS+22b, DEvW22, DT22a, DLSvW24, ELLZ22, Ere22, FZB+23, FGKY22, FMS21, FMT23, FOL23, GNF22, GPHAPR+22, GFG22, HZ22b, HNZ23b, IRT22, JWC20, JCM24, JLC21, KGBT20, KBB21, KSI+23, KCCR22, KS24b, LCH20, LZT+23, LMS23, LTD+21, LP21, LTE23, LYY20, LTT21, LYS22a, LHXZ22, Li22, LOL22, LLZ23a, LDZ24, LMZ21b, LL21d, LYS+22b, LZC+23, LSY+23,

LOLS23, LZ23, LMHL21, LBM+23, LMPT24, LLCK20, MACDR24, MYM+21, MZ23, Mon21, MMYT23, MFS+22, MFdSS24, MMZZ22, NZ24, PZZ+23, PhSHK24, PR20, PP22c, PS22c, QCWC23, RC20a, RHC+24, SEG21b, Sev21, SV23, Shi23, SMR22]. **implicit** [SH22, TCS22, TZ21, TCK+22, TH23, UBT22, VN21, WKK24, WGY20, WHN+20, XGCW+20, XLS22, Yan21a, YP22, ZEG21, ZJZK20, ZA21, ZX22, ZH20, RWdBAG23, PV20, SC22b]. **implicit-explicit** [BCP22, LZ23, LMPT24, MYM+21, SMR22, VN21, ZH20]. **implicit-PIC** [SC22b]. **implicit-solvent** [LZC+23]. **Implicitly** [ZA20, Say22, XY20a, ZY24]. **implosion** [HNF+21]. **importance** [CBF22, EKPS23, Gri20, Sha21, SBJ+23, WW20a]. **imposing** [PAGJ23]. **imposition** [GS22]. **Improved** [Bar21a, PJBB20, TYBW23, BLL19, BLL20, CLW+24, CPBB21, DSZ22, HSH20, HYZ22, JYY22, JW21, LCG22b, LSXC20, LXD+20, LZPM22, LMG+21, LpW21, Ran23, WMTQ20, WY22a, WTZZ23, WLZ24a, WWZZ24b, YZZ23, YFLL21, ZYL23a, ZSL+23, ZWQG23]. **Improvement** [CHF21, IK23b, ALCZ20]. **Improvements** [CCH20, JG21]. **improves** [Nis20a]. **Improving** [BW23, GDL23, HVB21, JZZ22, LGL23a, Sem21, VdGP20, BBDT21, OGG20, RGSR21]. **impulsive** [LHCK24]. **In-cell** [PGCC+22]. **in-nozzle** [GPSMH20]. **incident** [CDL21]. **including** [ABH21, HPW21a, HLA22a]. **Inclusion** [SPAC23, MBDS23]. **inclusions** [CHZ22, GLL20]. **incomplete** [CCXX23, KUO23, XCZ20]. **incompressibility** [GGB22]. **incompressible** [ADK+21, ALMF23, AF20, ASS21, BHNS23, BDBB22, BCIT22, BDP23a, BDB21, CB24, CLDC20, CAT20, Chi23, CK21, CPK22, CVM23, Coc20, CBC+23, CSdP+22, DEvW20, DC21, EGTC+21, Eld22, EJ23b, FZB+23, FHWK21, FQSW23, Fu20, GGB20, GCL+22, GMJ24, HV20, HBF22, HMO+20, HLX21, HLA20b, HLA20c, HLA21, JCLK21, KM22a, KSS21, KM22b, KS24a, KWDS22, LLKY21, LN21a, LG20, Li20, LCSZ21, LZZ21b, LWF23, LNYD20, LSZY20, LMZ21b, LYS+22b, LN24, LY22c, MRK+20a, MRK+20b, MOBR22, MDF21, MHY20, MMYT23, MD22, MS20b, NFL+21b, OLS21, PS22a, QWZ+23, RS23b, San20, SBH21, SOV21, SEG21b, SRV21, SV23, SAS+21, SHL+20, SAL+20, Sti20, TWY22a, TKGB23, TGS+22, Vre17, Vre21a, WQZP20, WJHS23, WYS20, WHS22, XHX22, XC23b, Yan23, YLW21, YRHN22, YMY+21, YSN23, Yok24, YJK24, YDC22, ZLG+23, ZCYS20, ZCL20, ZHY22, ZPGR22]. **incompressible** [ZWLG23, ZPW+23, ZCY+21, ZO21, aZWY23, ZOEL20, vHP22]. **incompressible-compressible** [YJK24]. **incompressible/low** [TKGB23]. **incorporated** [MKHI20]. **Incorporating** [KK20a, Sin21]. **Increasing** [PTZ+24]. **increasingly** [LWZ23, ZZ24]. **incremental** [FRW+24]. **indefinite** [DV22]. **independence** [HZ22a, KBB+20]. **independent** [Bat20a, CELV21, CELV22, OPHY23, PZ24, TOB+24, YYD+22]. **index** [HST22b, SML20, ZYZ+23]. **indicator** [FL21, GS23, WX24b, WWZ20]. **indicator-based** [WX24b]. **indicators**

[FPT20, IW23, Vev21, WWLZ21, ZWQG23]. **indirect** [GDB24, HXFD20, WZL21, ZXLH23]. **individual** [MM21a]. **induced** [BLL19, BLL20, DU20, FTP20, MM21a, NVK+22, PPHO22, ZHPZ21, ZMZY23, ZJ21, ZMW23, ZAMG20]. **inducing** [DEB21]. **induction** [LL22, VVRWT21]. **inductively** [GLJB20]. **inelastic** [KH21b]. **inertial** [AHR20, LZH23, dPS24]. **inexact** [LCC+23b]. **inextensible** [JF20, OL20]. **inference** [BCC+24, BGH21, Bri22, DCS23, IK23a, LCG22b, LSL20, LLTY23, MLCM22, PWB24, SC23, WLS22, WLZ+24b, WPBS22]. **inference-based** [LLTY23]. **Inferring** [CWL+21]. **infiltrating** [GN23c]. **infinite** [CORJ+23, GD21, GMJ24, HWZ24]. **infinite-dimensional** [CORJ+23]. **inflow** [CLW+24, KL20, LYL20]. **inflow/outflow** [LYL20]. **influence** [KGSK23, MTT+23]. **Influences** [Yan23]. **inform** [NE23]. **Information** [BT22, JZB+24, KC20a, Tur24, XMZ+23, AB23, BCC+24, CG23, KUO23, LLW20b, LLO22a, THKT21, WYHL21]. **Information-based** [KC20a]. **information-open** [WYHL21]. **informative** [LSL20]. **Informed** [HTKT21, AB23, Ale23, AFK+23, AHJ23, AK21, ACD23, BSA21, BP22, BT22, Cai22, Cha21, CGC21, CWHZ21, CS24a, CDM+23, DCA+22, GSW21, GN22, GDL23, GYC+23, GWZ22, GYWG23, HCF+23, HPKS23, HXQL23, HA24, IL23, JKK20, JMAK22, JCLK21, KTDG22, KM22b, KH21a, KCWZ22, LJH23, LST24, LLZ22, LT22b, LWY23, LC22, LMK21, LAS22, MBN23, MN23, NSS24, OPM22, ODM23, POS+20, PDPK20, PZ22, PMT+22, PMSP23, PBJ+22, QZHD23, RHG22, RRL+23, SC23, SLF23b, SJK21, SWY+24, SZKY24, SKT23, SGLP23, TBW22, TBSH21, TZ24, WCM+21, WP23, WZ24a, WWZZ24b, YMK21, YKH24, YNDH22, ZZZG23, ZYL+23b, ZZK20, ZHH+24, ZTK23, ZMK24, ORCVG24, PZNK22, PZNK23, PJZ+23]. **Ingard** [WKK23]. **inhomogeneities** [CLY21, LL24a, Par22]. **inhomogeneous** [BCR24, CHZ22, JWH20, LT21, SYOS19, SYOS21, Ste22, TNB21, YCC+22, ZZW23, ZZW24b]. **initial** [HXQL23, LH21, NNJ21, Nor22a, Nor24a, Nor24b, RN23, RN24, SZKY24, VdGP20, WDH+21]. **initial-value** [SZKY24]. **Initialisation** [Bel24, LHFH20]. **initialization** [KB23, ZGLL20]. **initialized** [HWY20]. **initio** [PBO20]. **inlet** [HP21a, TSS+20]. **INN** [WL22]. **Inner** [AMG23b, IK23a, MLCM22, PR23]. **inner-heliosphere** [IK23a]. **inpainting** [ZZK20]. **input** [Ben23]. **inputs** [JLRZ20, LPZ22, RWH+24, TL20, WD23]. **Insights** [MFS+22]. **INSIM** [LO23]. **INSIM-BHP** [LO23]. **insoluble** [FZ23]. **inspired** [AP23, GDJ24]. **instabilities** [ARR21, LBN21, NNL+20, RS20a, SC22d]. **instability** [CCCH23, DLM+23, ELWY24, FAHA20, Lak20, LLS20, LKG+20, SSS22]. **instance** [LW22a]. **Instantaneous** [BJR22, BPT+20]. **insulators** [BHW23]. **Int** [HWY20]. **Int-Deep** [HWY20]. **Integral** [WKK23, AZV23, BGH20, BAK22, BG20c, BY20, CCJW24, CTG23, DZC+23, DLL22, DLYZ23, EFY23, FFY21, FJH20, FBS23, FGD+21, FMJ21, FMOJ22, FM23b, FM23a, FPT23, Gao24, HZD21, HP23, HJ22, KS11, KKA24, KEY20, LLZ20b, MB24, PSL20, PT23b, RC20b, SAH+22, TBD+20, WNB21, WJKW20, WZBV20, WC23, XY20a, XZW21, YSTK20, ZXMK21,

ZXY22, ZABP+24, ZYY23, ZY24, aKAK20, vHG+22]. **integrals** [BCG23, GHH24, GKD23, IRT22, Ree23, Tlu22, WGH23]. **integrated** [MYY+23]. **Integrating** [LAT+22, JLQY21, NS22, Suk23, YGJ21a, YGJ21b]. **integration** [AKK20, BR22a, BO22, BB20a, BZC+22, BTK22, CCN23, CPA+23, DSBFN+20, GCVI22, GDB23, GPHAPR+22, GMA23, HSM20, HKJ21, Kem24, Lep21, NFPSSA24, PGC24, PC22, SDKL21, Sha21, SdSPS24, Unf21, VK22, WMTQ20, WP23, WDK22, YK20b]. **integrations** [HZB+21]. **integrator** [CEMO21, CCE+22, CC24, DSG+22, EOP20, GJLD20, JWC20, KCCR22, LPP+20, Lee21, Li22, RC20a, TCA21, Ume23, WCBQ24]. **integrators** [CBQ21, CC22b, CCHS20b, GRT18, GRT21, GFG22, GNW22, KSS21, Liu23, LCBW23, MHW21, MHW22, Mül23, MMPD21, WBN22, YGJ21a, YGJ21b, ZLQS24, dPS24]. **integro** [GW20, YNDH22]. **integro-differential** [GW20, YNDH22]. **intelligence** [HZB+21]. **Intelligent** [YJP23]. **intense** [SDA+21]. **intension** [Ste22]. **intensity** [TCA21]. **inter** [BFS23, SFP+20]. **inter-particle** [BFS23]. **inter-phase** [SFP+20]. **interacting** [BPT+20, DFJ22, JLL20, KLA23, KCK21, LHT21, LR23, WXZ22]. **interaction** [ASW21, ASS21, BFI22, BPG21, BBKB21, BGQ+23, BFST23, CFJF23, CIMG21, DKM+20, FW24, GQF23, HLA20a, HSXZ21, He22, HYSS22, HBBN24, HW20a, HGZ23, JLCT22, KBG23, KBS+21, KWR+23, LLD20, LDLW21, LQXM22, LOL22, Li23, LRW21b, LT20b, LM20b, MWY+20, MJ23, NG22, NLZ+22, NZXM21, OSL22, PBVC22, PPB23, QKG21, QC23, RMJ23, RSWD21, RB21, SWHJ22, SDA+21, TF20, VSS21, VSB+22, WLL+23, YK20a, ZTS20, ZSL+23, vdEW23]. **interactions** [BFS23, HVB21, JGvR23, KBSF22, LCC+23a, MAP+20, OB20, PB20a, QWZ21, SGM21, TCA21, VEC21, WWYC21, XHC22, ZRH21]. **interatomic** [NR23]. **interconnected** [LZLZ21]. **Interest** [VGG23]. **Interface** [MT21, QJQW22, ABH21, AuIL20, ASKH21, AD20, AD21, ADJ23, BL22a, BCL+23, BG20b, BPG23, BGSP22, BSW+22, BSV22, BZ20, BBA22, BSP21, CLB23, CSX21, CWW22, CL23a, CLS20b, CSM23, CCdS20, DY22a, DU20, DSPB22, EdCC+23, EWN+23, FZ20b, FHM24, FO22, GGCvR22, Gao22, Gin21, GL20, GZ21, HLPX24, HLL22, HLY20, JMM20, JAW+23, JZK24, JHY21, JWZ20, JZL+24, JLLY24, KC20b, KSH22, KK22a, KBCG20, KBS+21, KWR+23, KB22a, LCCM22, LYZ22, LLPL22, LLQ+23, LCP21b, LCP23, LYH23, LAN21, MMZR21, MJJ21, MJ23, MA21, ML24, MIM20, MMM23, NZRH24, OLS21, Oru21, PWXY22, PBM23, PAA23, PG20, QKG21, QHLL20, QLY21, QLMR24, RKA+23, RMJ23, RV22, RSWD21, RZ23, SCB20, SBC20, Sha23, SK23b, SRD20, TCW24, TAWD23, TJM23, TWF+20, TLHL23, TSM24, VMO21, VFBD23, WBN21, WZ20, WWYC21, WZW21, WA23]. **interface** [WL22, XFL21, XSHH20, XYL22, YTWK23, YLK23, ZMWS22, ZQC+23, ZSY21, ZAMG20, ZGK+22, vdEW24, CD22]. **interface-adapted** [MA21]. **interface-capturing** [BSP21]. **interface-lattice** [QKG21]. **interface-preserving** [MJJ21]. **interface-resolved** [LYH23, SCB20, WA23]. **interface-sharpening** [LLQ+23]. **Interface-unaware** [QJQW22].

Interfaced [WL22]. **interfaces** [AAM20, AWB+20, BBH+20, BTCV22, BDMP22, BTL23, Cam21, FS23a, GvR24, KB22b, LT20b, MR22, OB20, PR20, QHZ+22, RS20c, RPA22, SOSM20, SN21, TLB20, XBH+22, XMY22, YYB23, ZZML20, ZY24]. **interfacial** [BHK+22, CHMP24, CLLL20, DWWZ21, LZX+22a, MS20a, ÖL23, SLBH23, WTF22, WH24, WYS20, vdEW24]. **Interior** [FCL21, CLW20, aZWY23]. **internal** [CSCL20, VBB+23]. **interphase** [OCGT22]. **interplay** [WCL+20]. **interpolate** [AK21, LD22]. **Interpolated** [BB21, BB23a]. **interpolating** [ADK+21, WK23]. **interpolation** [ALCZ20, Che23a, GD20, GEvWD22, KSH22, KDB+20, KR22, LKG+20, LT23, NYZ21, NP23, NW23, OA21, RCSS24, SCS22, WL24b, ZB21a, ZJ22]. **interpolation-free** [KSH22]. **interpolative** [BKMM24, CZHY20, TPYX22]. **Interpretable** [RR21a, BSVM23, MGT+21]. **Intersection** [KKS21a, CD22, GMSLC24, KKS21b, PWbCJ24, Sha23]. **intersection-based** [PWbCJ24]. **Intersection-distribution-based** [KKS21a, KKS21b]. **interval** [SPdF20]. **Intrinsic** [BFP21, DL21]. **introducing** [Sab20]. **Introduction** [YGJ21a, YGJ21b, LG24]. **Intrusive** [KWF20, BLLL23, DH24, DFP+21b, GS23, HRG+23, HR23, JADS21, OA21, PZ24, Poë23, SM22, VGG23, XLLH21]. **intrusive/non** [Poë23]. **intrusive/non-intrusive** [Poë23]. **invariance** [LM21a]. **Invariant** [Yan21b, DLWW22, GGH+23, GPS20, LLR23, MVO+22, OLP23, RLD24a, WLH21, WXZ22, ZQYS20, ZLQS24]. **invariant-conserving** [ZQYS20]. **invariant-set-preserving** [ZLQS24]. **invariants** [CHSS20, Li22]. **invasion** [HKW24]. **invasive** [BVR22]. **Inverse** [AHJ23, CIMG21, GXY24, GA24, KKL+23, RtTBI20, Ale23, AAMPR24, ACDV24, AN21b, AL21, BS22b, CORJ+23, CZ22a, CDZ23, DSZ20, DW23, DLMZ22, ESJ23, FS23b, FZ21, GLWZ22, GGN+20, GWZ22, HR22, HNR23, HSS22, HBF21, ILX22, JMAK22, JF24, KS22a, Kho20, KNS21, LT22b, LWY23, LWZ22, LMK21, LSTZ21, MNG+22, MK20, MRG21, MTWBT21, PZ21, Par22, PMSP23, PN22, SPdS+21, SNW23, TZ24, VAK+23, WCZ22, WZZ23, WLZ+24b, XZ22, XD22, YMK21, YBST24, YNDH22, ZMSX20, ZZZG23, ZLL23, ZHH+24, ZHRB23, PMACG21]. **inverse-PDE** [PMACG21]. **inversion** [AMG23b, BS20, CZ20b, DNP23, DW21, EdCC+23, EEG22, EAA+22, FFY21, HWZ24, IL23, RHR20, RBBD22, SSW22, TPYX22, WMS21, XLL24, ZBB21]. **invertible** [MHQ24, PZ21]. **Inverting** [PGS22]. **Investigation** [GZW20a, ZABP+24, Kem23, LRT13, dv23a]. **Investigations** [VOL23]. **inviscid** [CLC24b, FWG22, LOL20, LSY+23, LP23b, MR22, MMM23]. **involving** [Ale23, HSXZ21, LY20b, MWY+20, XYL22, YK20a]. **ion** [DWZ20, DWZ23, FSW22, SC22b, XC20, Xie22, XC23a, ZGLL20]. **ionized** [CMS+22b, PLX24]. **ions** [LHPS24, LPH+24]. **IP** [GMNY23]. **IP-DSMC** [GMNY23]. **IPDG** [YCC+22]. **iPoPe** [CMGGS23]. **irradiated** [FJG+20]. **irregular** [CCJW24, CG24, CLS+20a, CPK22, CCdS20, GSW21, KM22b, KML23, LSLH20, MRYS20, Nis21, RS20c, RFZ22, SWF21, VGG23, WCF+21,

YLNT20, YLS21, ZL22]. **irregularly** [SWHJ22]. **isentropic** [BJL21, DT22b]. **ISMC** [Poë22, SH22]. **isogeometric** [ID20, LKEM21, MTO21, ZXD22]. **isometry** [BNN20]. **Isoparametric** [BNP+22]. **isosurface** [LEH+21]. **isothermal** [JW21, KMR23, KL22, LPM+20, WS22, WLZ21]. **Isotropic** [JTK22, CPX21, SMAY22]. **ISPH** [LZT+23]. **Issue** [EFS+20, ZX20]. **issues** [TBD+20, Uil20]. **Itô** [CCHS20b]. **Iterated** [HSS22]. **iteration** [BGSP22, KWMF22, LZY22a, LL23b, MYL21, VGK21]. **iterations** [HL22a, SZW+20]. **Iterative** [EHL+20, YH23, Ani21, CZLC20, CZCY23, GW20, HA21, HMXC23, HWY20, Kar22, KCCR22, OPHY23, SZKY24, WCKS24, XC20, Xie22, YKdHC20, ZY20b, ZPS+21]. **IV** [YB22].

J [Abg20, ACML20a, BLL20, EFO20, GRT21, HPA22, LMFV22a, MM22, SZN20, SYOS21, STEK22, SS22b, Vre21b, Vre21a, YGJ21a, ZCQ20a, ZC22b]. **Jacobi** [BCJM20, CSY20, DM21, FPT20, GHTC21, HA21, KNT22, LPP+20, MYL21, PKL+21]. **Jacobian** [CT22, GDB23, HBFB20, LL21a]. **Jacobian-free** [GDB23, LL21a]. **January** [Ano20e, Ano20q, Ano21e, Ano21q, Ano22e, Ano22q, Ano23e, Ano24c, Ano24i, Ano23q]. **JAX** [MPIG23]. **JAX-DIPS** [MPIG23]. **JCP** [DSA23]. **Joint** [MFdSS24, BKON23]. **Joint-mode** [MFdSS24]. **Jordan** [GMRS20]. **Joseph** [QHLL20]. **Josephson** [GLJB20]. **Journal** [Pan20b, ZZW24b]. **JSC** [DSA23]. **July** [Ano20f, Ano20r, Ano21f, Ano21r, Ano22f, Ano22r, Ano23f, Ano23r]. **Jump** [KMF23, BG20b, BBP24, Cal21, CK21, CCdS20, MST23, WZW21]. **jump-diffusion** [MST23]. **jumps** [TCW24]. **junctions** [GLJB20]. **June** [Ano20g, Ano20s, Ano21g, Ano21s, Ano22g, Ano24d, Ano24j, Ano22s, Ano23g, Ano23s]. **justification** [BBL23].

k-exact [SEG21b]. **Kac** [DZC+23, YZdCNS21]. **Kalliadasis** [Abg20]. **Kalman** [MLCM22, BJ21, HST22b, HSS22, JL22, MLCM21, SSW22, WLZ+24b, ZMSX20]. **Kapila** [ZC23]. **Karhunen** [LT22b, TBSH21, TZ24, TBST20, XLL24, YBST24]. **Kawasaki** [BCL+23]. **KEEP** [KK21, KOS23, TKK22]. **Keller** [HS23, QLY21, WZSC22]. **Kelvin** [Kan20]. **Kernel** [AB22, BDHO24, CL20d, CSY20, DLYZ23, CCPS23, CZ23, Che23a, DS22b, EMS+21, GW20, LBSR20, lLNZ21, LR23, NYZ21, WYP22, XY20a, YYD+22, ZYY23, ZY24]. **Kernel-Based** [CSY20, CL20d]. **Kernel-free** [DLYZ23, XY20a, ZYY23, ZY24]. **kernels** [ABOS22, CLC24a, CI21b, GP23, HQ20, KKN+22]. **Kerr** [HLH21, PBCL20]. **Kerr-Debye** [PBCL20]. **kind** [BBO+22, HJ22, KS11, PSL20]. **kinds** [HHLS22]. **kinematics** [MM21a]. **Kinetic** [BJC23, AP21, ATCS20, BBC21, BR22a, BTZ22, BJR22, BMG+23, CHS20, CPX21, CPX22, Cap23, CDT22a, CB23, CBRY21a, CBRY21b, CSMH24, CV23, CEM20, DS23a, DC23, Edo22, Ein24, EMP24, EFSH21, GRC+22, GT23, GT21, HGH20, HL22b, HPW21b, HSB20, HJJL20, JM22, JZSX20, JZSX24, KC20b, KV23b, KK21, KOS23, LCJ20a, LLZ+20a, LLQC21, LLQ+23, LHPS24, LPH+24, LLS24b, LZX20, LCCL23, LLZ23c, LKJL22, MWS24,

MPZ23, MRBS22, NKT21, NWM21, PZX20, PZZ+23, PCQL20, PRPK23, PLX24, RB24, RHC+24, SWG21, SGMT20, SL20b, SL22b, SSS20, SST+23, SAH+22, SC22b, TM23, TZ20, VVL21, WNZ20, WCP23, WZX24, WLZP21, XLXC20, Xia21, XF21b, XF21a, XCL+21, YJSX22, YPX24, ZCYS20, ZL21b, ZPGR22, ZLW+22a, ZWLG23, ZJSX22, ZGX24, ZG20, ZPS+21, Mar24]. **kinetic-diffusive** [MRBS22]. **kinetic-energy** [DC23, KK21]. **Kinetic-energy-** [BJC23]. **kinetic-energy-preserving** [Edo22]. **kinetic-fluid** [BTZ22, CSMH24, HL22b]. **kinetic-ion** [SC22b]. **kinetics** [AGR23, ACR23, KOM+22, KAC22]. **kink** [HCL22]. **KIOPS** [GRT21, GRT18]. **Klein** [AZ22, CY23, GLLM22, HHSZ24, JWC20, LSZ23b, NMGR21, SQSS20, SZ21]. **KNOSOS** [VCPGR20]. **knowledge** [CHZ+21]. **knowledge-based** [CHZ+21]. **Knudsen** [LSC+20c]. **Kohn** [GMB+22, HXX23, TMG20, VGK21, WCKS24, ZNCZ+21, ZH23]. **Kolmogorov** [BF22, BFM23, ZG24]. **Koopman** [KLF22, LJ21, LL21c, MHQ24, MRG21, ZSM22]. **Korteweg** [DD22b, HKMR20, KMR23]. **Kramers** [NMGR21]. **Kriging** [CGC21, FLW20a, RBBD22, HSH20]. **Kronecker** [CCE+22]. **Krook** [FZLL20, FJ21, FHJ22]. **Krylov** [GRT21, GRT18, GDB23, KAC22, hSMLS23]. **Kutta** [ALMF23, ADP22, AC23, BD20a, BM24, CBQ21, CdS22, FY22, GMA23, JLQY21, KBCH20, KSS21, KS22b, LNF20, Mar20, MYM+21, NCQ22, NS22, NNJ21, NV22, SMR22, SW23, SZQS23, VLV20, VN21, Ver23, YYX21, ZQYS20, ZHR20, ZH20, ZQS20]. **Kutta-Summation-By-Parts** [LNF20].

L [TZNHD20]. **L-Sweeps** [TZNHD20]. **L1** [YWClL22]. **L2** [QW22, Sar21b]. **L2-minimization** [Sar21b]. **label** [GHY22b]. **LABFM** [KL22]. **laden** [CW22b, EASA23, FJG+20, PA21, RR22, RE20, SGPW21]. **lag** [HHRA19, Pan20b]. **Lagrange** [BLL20, AST21, BLL19, BHK+22, BTKP24, CBBI20, CCB22, GMSLC24, HBF22, HNZ23a, LSZ23b, SGPW21, ZSKN22]. **Lagrange-projection-type** [BTKP24]. **Lagrangian** [LGY+20, NCQ22, Pop20, ALCZ20, ACHG+21, ALL22, ATS24, BFG22, BDBB22, BCR22, BCR24, BLM22, BCP22, BJR22, BMG+23, CQY21, CBQ21, CB24, CFM22, CGZ23, CLLL20, CSS20, CLS20b, CLJ+20, CLS24a, CCCH23, CBRY21a, CBRY21b, DD22b, DCGQ20, DGW20, DLY22, EASA23, FHWK21, FLW20b, FX22, FL23b, GBC+20, GQF24, GDB24, HLA20a, HSXZ21, HV20, HQ22, KKS21a, KKL24, KBS+21, KWR+23, KDB+20, LCG22a, LG22, LPL+22, LCS24, Lév22, LZX+22a, LQXM22, LW20a, LCC+23a, LCCL23, LT20c, NKW22, PM21a, PK20, DM23b, PCA+23, QPW21, QJQW22, QJL23, REC+22, RRPSS21, RE22, SOSM20, SMY22, TSP22, TKR22, TGM23, WDS22, WCBQ24, WZL21, XZC21, Xu24, YM21, YL21b, ZA20, ZZZH23, ZXX23, ZYD20, vGAtTBI24]. **Lagrangian-Lagrangian** [HLA20a]. **laminar** [DA23, GFY20, HV20, WK21b, ZS24]. **laminates** [LLZL20]. **Landau**

[CCWX22a, CC20, HMXC23, LJH23, LN23, LXD+20, LRW21a, MPZ24, SHS+20, YCH21, ZZ23a, ZOG21b, ZWS+24]. **landscape** [YZZZ22, ZYZ+23]. **landslide** [FFGRLS+20, GdFP+24]. **lane** [DMRB20]. **Langevin** [DS22b, GLLB20, HL22b, LLZ20b, WK24a]. **LANS** [BABD21]. **LANS-** [BABD21]. **Laplace** [DHMT21, GD21]. **Laplacian** [AD20, GLLM22, HZD21, HKKS21, LPG+20, PDPK20, TY24]. **Large** [NMN23, PBO20, ZLQS24, AP21, BNN20, BGNY22, BCC+20, CCWX22a, CMH20, CJLL21, CLW+24, CC22b, CBA+21, CEBG22, CBC+23, DS22a, DFP+21a, DWZ23, DFW22, FVM22, FVM23, FBG20, FCL21, FLW+23, GQF23, HZHL22, HF23, HYP24, HRWP22, HW23, IW23, KCT+23, KS24b, KS21d, LM21a, LCP21a, LMS23, LWY+20, LLTY23, LD20b, LWWH23, LTBM23, NNJ21, SOG+22, SMF20, SS22b, SS22d, TTSP21, WGS+20, WH22a, WLKR23, Wan23, WZ23a, WGY+21, WC23, XBD+20, XHZ22, ZY20b, ZWLG23, ZB24, ZO21, vNGB22, Svä22]. **large-convection** [DWZ23]. **large-eddy** [HYP24, LM21a, LCP21a, LWWH23, SMF20, SS22b, SS22d, ZB24, vNGB22]. **large-scale** [AP21, CBA+21, DS22a, FVM22, FVM23, FLW+23, LWY+20, TTSP21, WZ23a, ZO21]. **laser** [CMS+22a, CIMG21, LSC20b, Li23, MAP+20, NTSM20, TCA21, ZMW23]. **laser-fluid** [ZMW23]. **laser-induced** [ZMW23]. **laser-plasma** [LSC20b, Li23, MAP+20, TCA21]. **Latent** [EDC+23, LDZ24, CPH+22, DCS23, HCF+23, LMS+22]. **latitude** [GS21]. **Lattice** [AWB+21, CFJF23, GDF21, HJK+21, LL20, AWB+20, BSR20, BGGM22, Bel24, BSK+23, CYS23, CW22b, DYMC20, DFJ20, Gin21, GFJ+20, HPW21a, HTV+22, KS21d, LLKY21, LRT13, LSZY20, LHWZ21, LLSD20, LLD+22, MWY+20, MTB22, PAA21, QKG21, Rei22, RWBS21, RR22, SMK23, SHM+23a, SOG+22, SMLM23, WS22, WTZB23, WGY+21, WLL+23, YYJ+23, YDC22, ZHPZ21, ZQC+23, ZZZ20, dv23a, AYH+21, MYY+23, RSO20]. **Lattice-Boltzmann** [GDF21, MYY+23]. **Lattice-Boltzmann-finite** [AYH+21]. **lattices** [PAGJ23]. **law** [HZY22, KDL23, MN21, MVO+22, PCA+23, SM21a, XHY23]. **laws** [BKC22, BL22b, BBCD22, BBL23, CMP+21, CMPR23, CJ21, Cha20, DLWW22, DMK+24, FTZ22, GKL21, HMO+20, Hua21, Kiv21, KGN22, KWF20, KdL20, KV23d, LZZ21a, LSQ21, LLO22b, LLO23, LF24b, LWZ23, LD20b, LOLS23, LA21, LSTZ21, LpW21, LLQ+24, Mar23, MYM+21, MVO+22, Mül23, NVPP23, PPP21, PD21, RBF+21, SSK20, SAP22, SLNM21, TFWX22, Tot23, WKW+22, WX24b, XS22b, YNT20, ZZ23b, ZHR20, ZCQ20b, ZQ20, ZBB21, ZWQG23]. **Lax** [BKC22, DSZ20, FLW20b, KKL24, LSTZ21, XS22b]. **Layer** [LG24, ACD23, ADM+21, CKLZ23, CSS24, DA23, DSBFN+20, DHMT21, GKD23, HBFB20, Hig20, KSTT22, KKCC20, LZX+22b, Liu21, MBM+22, MD20c, MF24, PPB23, WWZZ24b, XHLH23, YW22, ZGX24]. **layered** [CHN24, FGD+21, Nic22, WCZ+20, WZC21]. **Layers** [MBAG21, CLT21,

DR20, DLM+23, DZ22, DZ23, Eld22, Hig20, LGL23b, WC23]. **LBM** [HTDL24, JLCT22, LOL22, MXL+24]. **LBM-FVM** [MXL+24]. **LDG** [BGNY22, PCQL20, ZTZX24]. **LDG-IMEX** [ZTZX24]. **leap** [AGR23]. **leapfrog** [CSASS21]. **LEARN** [SE24]. **learned** [CGZ23]. **Learning** [ÅIN21, ABOS22, BDMT22, Che20, DJ20, DMC+23, GCC21, HXFD20, KLW24, LWR+24, MWS24, MYM+22, QCZ22, STB+21, VLC+20, WXZ22, WGSX23, XHD21, YCC+22, ZTK23, AMK+21, Ale23, AFK+23, ADM22, AB22, ABY23, AMM23, Baj23, BSVM23, BDHO24, BM21, BCJ24, Bha20, BPBM23, BCSK21, BGS+22b, BPVE24, CCLL20, CFS+22, Cha21, CHCC23, CXZ24, CNBH23, CX21, CWHZ21, CHOS21, CHZ+21, CCN21, CW23, CS24a, CMCX23, DM23a, DSS+22, DL21, DY22b, DGPP22, DMK+24, ELLZ22, EL24, FY20, FFFY20, FSWA23, FC21, FWNT21, FCL23, FO22, GW23, GJF20, GTWJ24, GYZ21, GCSH22, HGV+21, HMMO20, HJLY21, HRMY20, HWY20, HCCR22, IT22, JD23, JL23, JF24, KTDG20, KTDG22, KK20a, KM22b, KL20, KKY22, KLG+22, KBC22, KT24, LLSX23, LMS+22, LCG22b, LCG23, LJH23, LST24, LJ21, LZY22a, LHA+21, LLY+23, LXCZ24, LY23]. **learning** [LHW+23, LMR20, MMS24, MO22, MHQ24, MHWY21, MGT+21, ND23, NT23, NPL+24, ORCVG24, ÖL23, ODM23, OKTD21, POS+20, PS22a, PZ22, PRKS23, PKK22, PMZ+23, RDAB23, SKP+21, SSW22, Sim23, SMF20, ST24, SACT21, TLD20, TBSH21, TZ24, THKT21, TBST20, THH22, TC23, VRK+21b, WLPK20, WCC+20, WL20, WZ20, WLW+20, WCL+20, WDL21c, WP21, WCF22, WWFM22, WX20, XCZ20, XZW21, XZRW21, XD22, XDCF21, YG21, ZXLH23, ZYY+24, ZAW+20, ZLW+21, ZWR24, dZBDMC24]. **Learning-based** [WGSX23, CCLL20, NPL+24]. **learning-enhanced** [CNBH23]. **learns** [MK20]. **Least** [CCL21, GTKA20, GKA22, LKEM21, BBGT21, CCLL20, CZCY23, DVS22, GLF23, GHD24, HWDM22, JRY+20, LCWJ20, LSZY20, PC21a, PR23, SMSAGG22, TB21, Wan22, WGSX23, ZC22b, ZC22c]. **Least-Squares** [GTKA20, CCL21, CCLL20, DVS22, HWDM22, JRY+20, PC21a, PR23, SMSAGG22, TB21, ZC22c]. **Lebesgue** [RR21b]. **Leffler** [LSC20a]. **Legendre** [SS22c]. **Leidenfrost** [MTT+23]. **Lenard** [EH22a, SHS+20]. **Lenard-Balescu** [SHS+20]. **length** [CLB23]. **Leray** [TT22a]. **LERNA** [ME22]. **LES-RANS** [ZDS+21]. **LESCM** [QWZ+23]. **less** [LPH+24]. **Letter** [Abg20]. **Level** [KKY+21, ASBM20, AAM20, BSW+22, BTEK22, BBA22, CSM23, Coc20, CSS24, DKM+20, DPX23, DW21, DFJ20, DV22, EdCC+23, GN23a, GQF23, GYC+23, HSM20, HCL22, HPS23, HT21b, JGM+22, JFH21, KCX+21, KD21b, KB22b, LCG22a, LCG22b, LCG23, LM23a, LPJ+23, LZC+23, LC23, LTBM23, LLCK20, LHFH20, MMdMB22, PBGB21, SYL23, SYC+23, SDP20, SSTD24, The21, VTC20, WGH23, XSHH20, XSA+21, YYB23, ZB21a, ZXBS22, ZLG+23, ZY20a, ZMW23, FFL+23, ZOEL20]. **level-set** [BTEK22, BBA22, Coc20, DPX23, DFJ20, HRR21, LCG22a, LCG22b, LCG23, LPJ+23, LZC+23, LCP+24, PBGB21, SDP20, SSTD24, XSHH20,

YYB23, ZB21a, ZY20a, FFL+23, ZOEL20]. **level-set-based** [BSW+22]. **level-set/embedded** [LPJ+23]. **level-set/finite-volume** [ZB21a]. **Level-Set/VOF** [ZOEL20]. **Leverett** [AFV20]. **Lévy** [ZXMK21]. **Lewy** [OKTD21]. **library** [XCZ20, CD22]. **Lie** [CC22b, ZOG21b]. **Liénard** [KKL+23]. **Lifshitz** [CCWX22a, LXD+20, YCH21, LN23]. **lifting** [XFL21]. **light** [CEW23]. **LightAMR** [SC22c]. **lightning** [MN20]. **like** [BLK+23, CLC24a, HLZ20, NT20, Poë23, ZT23]. **Likelihood** [BCC+24, EKPS23, PWB24]. **Likelihood-free** [BCC+24, PWB24]. **limit** [BPT+20, CLY21, CSS20, DW20b, JTZ22, KCK21, LCS24, LLZ20b, SZ21]. **Limitations** [CSA21, LR24]. **limited** [BAT23, DLMZ22, DGPP22, KBC22, LDC23, MLPR24, Par22, Per23, RHG22, SE24, YYL20, Yin22]. **limited-aperture** [DLMZ22, Par22]. **limiter** [DSZ22, DK21, GK20, LWR20, WX24b, ZZ23b, HJ24a]. **limiters** [CBY23, ZQS20]. **Limiting** [KK20b, KdL20, LC24, MSC+20, PPB23, RRG24, YU22]. **limits** [WS22]. **line** [AZV23, FMB20, HL22a, LC23, SRTB21, SHL+20, TUCT24, TWY+22b, WGH23, XLHB22, ZKY+20]. **lineages** [CDJM21]. **Linear** [MD20c, TPYX22, YTK22, YL24b, ZHL21, Abg20, AG24, ACÉ+22, ACDV24, AAKW20, BR22a, BBPR21, BSP21, CCL21, CZ20a, CBA+20, CBA+21, CLPP24, CIMG21, DGGL22, Den23, DLM+23, EHW21, EPL21, GZW20b, GQ22, dMKJ+22, Jai22b, Jai22c, JLY22, JLY23, KKN+22, KLP22, Kiv21, KWDS22, LPP+20, LLW20a, LYZW21, LYZ22, LWZ23, LZ24b, LGYK24, LsCxL+20, LN21b, MFS+22, MGT+21, MMPD21, NDH20, NW22, PHHJ22, PCQL20, PK23, Poë23, QCZ22, RWBS21, RHR20, SL20b, SL22b, Sev21, SK23a, SL22c, SL23, SMW+22, SW23, SDA+21, TT22b, TT23, WWJ24, WZBV20, WWZZ24b, YAX20, YK20a, ZG21, ZFG21, ZQ20]. **Linear-scaling** [TPYX22, WZBV20]. **linearised** [ILX22, Nor22a]. **linearity** [MSC+20, PWXY22]. **linearity-preserving** [PWXY22]. **linearization** [AFK+23, MMYT23]. **Linearized** [NNJ21, HBFB20, IK23b, LSW20, ZHY22]. **Linearly** [LLZ23a, CS20, FBG20, JWC20, Li22, San20]. **liners** [LBN21, TBG20]. **lines** [BSW+22, CZZ21, HGZ23, MPSP22, PBGB21, SPZ22, ZY20a, ZR20]. **link** [ITK24]. **Liouville** [vGAtTBI23, vGAtTBI24]. **Lipschitz** [NCC21]. **liquid** [BW20, FSDB20, GPSMH20, HRR21, HLA22a, KJB+24, KAZS23, LZT+23, LWZ+21, MR22, MKHI20, MA21, PR20, SVW21, SYL23, SYC+23, VPL20, VFBD23, WA23, WABK21, YR22, ZSY24, ZZN22]. **liquid-gas** [PR20, VFBD23, ZZN22]. **liquid-metal** [KAZS23]. **liquid-solid** [HLA22a]. **liquid/gas** [WA23]. **liquid/liquid** [VPL20]. **liquids** [DC22a]. **lists** [Ale23]. **lithium** [FSW22]. **lithium-ion** [FSW22]. **Load** [WY22b, TTSP21, WGY20]. **Load-balanced** [WY22b, WGY20]. **load-balancing** [TTSP21]. **loading** [MM21a, WQ20]. **Lobatto** [RRFK+21]. **Local** [AuIL20, BBDT21, CP22a, CCH+23, CCCH23, SCS22, Xia23, ARC22, AdS22, BDT21, BCR22, BBCD22, CS20, CHN24, CV23, DCA+22, DCGQ20, DMC+23, GD21, GHTC21, GN23c, HMV22, HVD23, HT20, Hua21, KLN20, KL22, LSXC20, LLW20a,

LW22b, LY20a, lLNZ21, MS20a, Mis23, MGA20, NKA+20, PLL+21, QPW21, QZZ+24, SRH21, TCS22, TSSOA20, VSB+21, VBA22, WGSX23, WGU+22, XFL21, XLZ21, XCL22, XLL24, YZH+23, YAX20, Zha22, ZPW+23, ZL22]. **Local-basis** [Xia23]. **localization** [BDT21, BZSF20, KS24a, QC23]. **localized** [BHP24, CDM+23, LC22]. **Locally** [Baj23, BDP23b, KRL21, NNJ21, AG21, BST23, DH20, JFH21, LKEM21, LYZ22, LZLS21, VN21, WHN+20, ZG21, ZXD22]. **locally-adaptive** [ZXD22]. **Locally-symplectic** [Baj23]. **locate** [NPD20]. **located** [CQA21, CSM23]. **locating** [KTDG22]. **location** [AL20, CGLZ23, CJT+20]. **lock** [GMMS22]. **lock-release** [GMMS22]. **LOD** [ZDW22]. **Loéve** [LT22b, TBSH21, TZ24, TBST20, XLL24, YBST24]. **log** [CLS24b]. **log-simplex** [CLS24b]. **Long** [NDH20, WP23, BCG23, EPL21, LBT+23, MFTZ20, Nor24b, PLYZN23, TFCH22, ZDC20]. **long-range** [BCG23, PLYZN23, ZDC20]. **long-term** [MFTZ20]. **Long-time** [WP23, EPL21, LBT+23, TFCH22]. **longitude** [GS21]. **longitudinal** [CKN22a]. **loop** [MLCM22, RSA+22]. **loosely** [BGQ+23]. **loosely-coupled** [BGQ+23]. **Lorentz** [BRT22, MBAG21, PBCL20, WLH21, Yan23, ZPK22]. **Loss** [SWY+24, BCJ24, HBEK23, Nis20c, PKK22]. **Loss-attentional** [SWY+24]. **losses** [TBG20]. **lossless** [SC22c]. **Low** [BRT22, CDX+21, DCSG22, KSS21, KK22a, Osi20, Osi24, PWK20, TSTH20, ARGK22, ASVL23, CWW22, sCpLL+22, CZCY23, CH22, CPGD20, DSPB22, DS23b, EOP20, EHW21, EJ21, EOS23, Ein24, EMP24, EMS+21, FSB+20, FAHA20, GMMS22, GMA23, GMD22, GQ22, HTL21, HYM20, HCdM23, JP22, KIHB21, KFP+22, KSBG20, KS24b, KD21a, KWMF22, LPM+20, LBN21, LFA21, LCCM22, LXSF22, MM21b, Mis23, OCGT22, PMF20, PM21b, PM23, PS22b, PGTS21, PEL23, RKVV20, SW22, SYAM23, TFWX22, TKGB23, WZTZ21, YFY22, ZOG21b, ZG24, ZGK+22]. **Low-cost** [KSS21]. **low-dimensionality** [Mis23]. **Low-dissipation** [CDX+21, TSTH20, KD21a, LFA21, LXSF22, MM21b, TFWX22]. **low-fidelity** [KFP+22]. **low-Mach** [DSPB22, HTL21, KSBG20]. **low-Mach-number** [GMD22]. **low-memory** [DS23b, FSB+20]. **Low-order** [BRT22, ASVL23, LBN21, PM21b, PS22b, PGTS21]. **low-pressure** [LPM+20]. **Low-rank** [DCSG22, Osi20, Osi24, ARGK22, CH22, EOP20, EHW21, EJ21, EOS23, Ein24, EMP24, EMS+21, KWMF22, PMF20, PM21b, PM23, PEL23, ZOG21b, ZG24]. **low-speed** [KS24b]. **low-storage** [GMA23]. **low-temperature** [LPM+20, SW22]. **Lower** [BEP+20]. **Lower-Upper** [BEP+20]. **lowest** [BW23]. **lowest-order** [BW23]. **LS** [WYS20]. **LS-assisted** [WYS20]. **LSNN** [CCL21]. **LSV** [SS22c]. **LU** [LY20b]. **Lubrication** [Ish22, KVQE21]. **lumped** [BGSP22, RSA+22]. **lumped-parameter** [RSA+22]. **LWR** [Tow20]. **Lyapunov** [Li22, YL21a].

M [Abg20, Pan20b, HYM20, ZSL+23]. **M-SPEM** [ZSL+23]. **MAC** [CJW22, DSS20, RCSS24, SCS22]. **Mach** [BDL+20, BP21, sCpLL+22, CWX23, DSPB22, GMD22, HTL21, HCdM23,

JP22, Kem23, Kem24, KSBG20, KD21a, LP20b, MM21b, MD20b, OCGT22, SLF23a, SYAM23, TKGB23, YFY22, ZGK+22, vNGB22]. **Machine** [ADM22, CFS+22, DJ20, DGPP22, HJLY21, HCCR22, LCG23, YG21, ZWR24, AMK+21, Ale23, AFK+23, BSVM23, BCJ24, BGS+22b, CWHZ21, CHZ+21, CCN21, CS24a, FC21, FO22, GJF20, JF24, KK20a, KT24, LCG22b, MGT+21, ODM23, POS+20, PRKS23, PMZ+23, RDAB23, TBSH21, TZ24, THH22, WLW+20, WL24a, ZAW+20, dZBDMC24]. **machine-learning** [CCN21]. **machines** [DL21, DY22b, KKA24, TPSN20]. **macro** [EH22a, HHVM20, HJH+21, HSB20, KV23b]. **macro-** [HHVM20, HJH+21]. **macroscale** [AEGV22, RE22, ZLW+21]. **macroscopic** [BSLM24, JYK22, KG20, LLSD20, MH22b, PSJ23, VLC+20]. **magnesium** [GB22a]. **magnetic** [AKK20, CC23, CC22b, FM23b, GGB22, GR21, HLB20, JCM24, WDS22, YYM+22]. **magnetic-field** [FM23b]. **magnetization** [EMS+21, dPS24]. **magnetized** [CC23, CDG+24, FR23, FZQ22b, HABG23, NWM21]. **Magneto** [HP22a, DT22c, NKW22, RRHCG23, RRG24, aZWY23]. **Magneto-hydrodynamic** [HP22a, aZWY23]. **magneto-hydrodynamics** [NKW22, RRHCG23, RRG24]. **Magnetohydrodynamic** [STC+21, GMJ24, LLZ23c, MH22b, WWN+22, Yan23]. **magnetohydrodynamics** [CS21a, DT20, DT21b, DT22b, Iij21, JTZ22, KAZS23, MM20, TWZG22, WGS23, WT24, ZYD20]. **magnetohydrostatics** [MFG22]. **magnetostatics** [DD21, Sar21a]. **magnetotelluric** [YRC+21]. **Maier** [SVW21]. **maintaining** [DNO23]. **Manifold** [CMPZ22, BF22, CCCH23, KGSK23, OA21]. **manifolds** [AHR20, BT22, GTKA20, JLYH24, LC20, LRT22a, LR24, PR21, Tur24, XHC24, YJH23, YLLO23]. **Manufactured** [FMJ21, FCBM22, TRC22]. **many** [WBN22, YhCdJ+23]. **many-body** [WBN22, YhCdJ+23]. **map** [CCGC23, The21]. **Mapping** [IT22, YMY+21, YSN23, HYM20, SZN19, SZN20, TN23]. **mapping-function-free** [HYM20]. **mappings** [AZV23]. **Maps** [EDC+23, GGN+20, GQ22, LLM20]. **Marangoni** [HPW21a, MTT+23, MYY+23]. **March** [Ano20h, Ano20t, Ano21h, Ano21t, Ano22h, Ano22t, Ano23h, Ano23t, Ano24k, Ano24e]. **marching** [FGKY22, LBC23, TCS22, YI23]. **marginal** [EKPS23]. **marine** [HPS23]. **Markov** [LTK+22]. **Markovian** [GCC21]. **MARS** [DE22]. **masked** [KCWZ22]. **Mass** [KBB21, CLS+20a, CLY21, CLW+24, CV23, CPGD20, DSPB22, EJ21, GLWY22, HR20, HZY22, KCS21, LLCJ23, LPH+24, LP23a, LM23b, LP20b, MYY+23, OCGT22, PCF21, PRPK23, QHZ+22, SS23, SMAY22, SFP+20, TFCH22, WGS+20, ZPGR22, ZSZ23]. **mass-** [ZPGR22]. **mass-balanced** [CLW+24]. **Mass-conservative** [KBB21]. **mass-conserving** [LLCJ23, LP23a, PRPK23]. **mass-energy-conserving** [SMAY22]. **mass-less** [LPH+24]. **mass-matrices** [KCS21]. **massive** [Lak20, ZBY+23]. **Massively** [BB23a, RAZA21, VRAM21, JGM+22]. **massless** [LHPS24]. **Master** [HGH20, EMP24, PEL23, KJ24]. **Matched**

[MBAG21, BST23, DZ22, DZ23, MF24, XHLH23]. **matching** [LO23, MHA23, BDFT23]. **Material** [BBH+20, CHS20, CCGC23, GvR24, HLL23, HPX23, KKS21a, KC20b, KBG23, KK22a, LB24, LLB+23, LSLH20, LCC+23a, MZI+23, MNG+22, NLZ+22, PWL+23, PBZ24, DM23b, PCA+23, QJL23, RGH+22, SRM24, TCR+20, TYBW23, VSS21, VKR+22, WBN21, WWYC21, XBH+22, XYL22, ZPK22]. **material-dependent** [RGH+22]. **materials** [AB24, KS22d, Nic22, PRO22, YSCM21]. **Mathematical** [BBL23, GM23a, ZWY+23, FS21]. **matrices** [CT22, Che23a, HRG20, KCS21, LM22, PT23b]. **Matrix** [OY21, ASG+23, AR21, BL20, BRZ+23, BDMP22, DES23, HSG+22, LNYD20, DAGL23, WH24, XHC22, ZR24a]. **matrix-fracture** [BDMP22]. **Matrix-free** [OY21, ASG+23, BRZ+23]. **Matsubara** [Yin22]. **maximal** [CL20c]. **Maximizing** [FCGKR23, Liu20b]. **Maximum** [JLQY21, STG20, ABY23, BSA22, BKMM24, lLTZ20, NS22, DAGL23, SWG21, Shi23, XS22b]. **maximum-entropy** [BKMM24]. **maximum-order** [BSA22]. **maximum-principle** [lLTZ20]. **maximum-principle-preserving** [NS22]. **maximum-principle-satisfying** [XS22b]. **Maxwell** [ARGK22, AF23, BBH+20, BDS23, CXZ24, CCY+20, CCHS20b, DLP21, EOP20, EC20, FM20, HLH21, ILX22, KCS21, KV23a, KBH+22, KS21b, KZC23, KS21c, Li23, LLZ23b, LCJ+20b, NGK+21, Puk20, QXYZ23, Sem21, SMY22, LF24a, Suk23, SSX22, WHN+20, WR23c, XBH+22, XLZ21, YZW23, ZL22]. **Maxwell-Schrödinger** [Suk23]. **Maxwell-Stefan** [FM20]. **May** [Ano20i, Ano20u, Ano21i, Ano21u, Ano22i, Ano23i, Ano23u, Ano24f, Ano24l, Ano22u]. **MBE** [YWClL22]. **MC** [Poë22, Poë23]. **MC-gPC** [Poë22]. **MCMC** [HWZ24, LTK+22, SPdS+21, WDL21b, WDL21c]. **ME** [EPL22]. **ME-FSC** [EPL22]. **mean** [AXWF23, ALFN22, BDMT22, BPT+20, FLOL23, GD20, HYCL23, LCG23, LW21, LFY21, LLO22a, LWX24, MYZ22, VSB+21, YLLO23, ZEG20]. **mean-curvature** [LCG23]. **mean-field** [ALFN22, BPT+20, HYCL23, LLO22a, LWX24, YLLO23]. **measure** [BCC+24, MQ20, WXZ22]. **measurement** [KLP22, SNW23]. **measurements** [ABDD20, DGPP22, RLH22]. **measures** [BJW20, HW20b, LKEM21, LAMC24]. **Measuring** [RGSR21]. **mechanical** [GN23c, RHR20, TJ22]. **mechanics** [BPS23, BHVJ22, BDI+21, BCP22, BLBM24, Cal21, FGF22, FCWT22, FM20, FLW+23, JN20, MCT21, RDAB23, VK24, XHZ22, ZOG21a, BCdS+23]. **mechanism** [MFS+22]. **media** [AFV20, ABH21, AYH+21, ALM23, AdDMT21, ASJ23, BHVJ22, BVRS22, BDMP22, BBMA23, BKMC21, BMQ20, BE20, BR22b, CCER20, CFSH20, CA24, CYS22, CYYS22, CYHY23, CCW20, DT22a, DGS20, ELL+23, EAK20, FS23b, FGKY22, FTPB23, FCY+20, FS21, FP23, GM23a, GQS20, GSFH22, GC20b, GLY20, GAC20, GN23c, HdB20, HdB21, HP21a, HLH21, JHT23, JFH21, JTT23, JP23, JGR22, KNLB21, KAO+20, KHS20, KWDS22, KWCS23, KLPR20, LCCM22, LJ23, LM23a, LZ20a, LFT+20, LCWH23, LW20b, LTDC23, LLCK20, MX22,

ML23, MD22, MMRP22, Nic22, PPV+21, QERT20, RSA+20, Sar21a, TBM22, TZ20, Vas23, VT23, WL20, WCZ+20, WZC21, WCM+21, WCZ22, WGU+22, XBH+22, XHS21, XHY23, YHC+22, YCC+22, YZK20, YKFH23, ZYL+23b, ZZW23, ZZW24b, ZR24a, ZLC+20, ZSKN22, dSdCdMC+24]. **medium** [BGSP22, CHN24, CZL20, GS20, HJQ+23, LW20a, LSZ21, LDC23, SWG+20, SGW+23, SDA+21, XH24, ZSQ21]. **meets** [HJK+21, LLSX23]. **melt** [LPJ+23]. **melting** [BTEK22, PGM22]. **member** [Ran22]. **membrane** [DKM+20, KKM21, XC20, ZAMG20]. **membranes** [LWL22, ZW22]. **memory** [DFG+23, DS23b, DS22b, FTPB23, FSB+20, GC23, KNS21, RA21, TEA+23, XG22, ZLC+20]. **Mesh** [Bat20a, CS24b, Der23, GD20, KBB+20, LPS21, MRL+23, AF21, AFP22, ADM+21, BGR20, BB20b, BB20c, BR22b, CDK+23, CAF+22, CHG+20, CL23a, CCAR22, CSS24, CNCM21, CLS24b, DS23b, DT21a, DT22c, DMRB20, DMK+24, FZS+21, FML21, FC21, FCL23, FWG22, Gao22, GMSLC24, GLCS23, HNF+21, HZ22a, HW20b, HLY20, HLQZ23, HSG+22, JZSX20, JZSX24, KKM21, KSK+24, KH20, KRL21, Lév22, LLW20a, tLjTbZ22, LP23b, MN22, MKHI20, MSK+22, MZC+22, ND20, PWXY22, PWX24, DM23b, PBF24, QZZ+24, RMD20, RHC+24, RAZA21, SAB+24, SC22c, Tur24, WZ20, WWN+22, WBH+24, XLZ21, YLNT20, YJK21, ZOG22, ZPW+23, ZDT23, ZJSX22, ZR24a, ZGX24, ZSKN22, dSLdA+22, vGAtTBI24, MRL+23, BDWC23, HZ22a, QLMR24]. **Mesh-Conv** [HZ22a]. **Mesh-free** [CS24b, WZ20]. **mesh-incorporated** [MKHI20]. **Mesh-independent** [Bat20a]. **mesh-refined** [XLZ21]. **meshes** [ACÉ+22, AR20, AWB+21, AE20, BGFB20, Bar21a, BBPR21, BG21, BFI22, BGS22a, BD20a, BCP22, BLBM24, BL21b, CB24, CK20, CP22b, CW22a, CSY20, CRF+21, CCB22, CF20, DBT+20, DS22a, DD21, DNO23, DSZ22, DK21, FADJ20, GBC+20, GYWH20, GHY22a, GK20, HW20b, HLQZ23, IMJ20, JBF21, KKS21a, KKS21b, KLS+20, KSI+23, KFSM21, KRL21, KHM+22, KLB23, KB23, KOS23, LZ24b, LM20a, LS23, LWWH23, LJK+24, LMN20, LWN24, LLQ+24, LHFH20, MYJ+23, MST24, Mar20, Mar23, MRYS20, MW22, ML24, NNL+20, PP22a, PP22b, PBGB21, PD21, PGTS21, RGSR21, SAS+21, SC22b, TNF23, Tso23, VKR+22, VRAM21, WTZZ23, WZL21, XY20b, XM20, YWN20, YWCB22, YCH21, YPX24, YK20b, ZCQ19, ZCQ20a, ZML20, ZL21a, ZL21b, ZJ22, ZLW+22a, ZCCN23, ZS20, vGAtTBI23]. **Meshfree** [GTKA20, AXWF23, GHD24, Oru21, SPdF20, TKR22, TBP20, WQZP20, Nik23]. **meshing** [tH22, RS23a]. **Meshkov** [RS20a]. **Meshless** [BO22, JZK24, TWZG22, Zha22, AuIL20, GQF24, SRV21, SV23, SWF21, WL22, ZP20, ZZY+20, SXZ+23]. **Mesoscale** [POS+20]. **mesoscopic** [YJP23]. **Meta** [CDX22, FFFY20, LCPW23, PKK22, TLB20, CDX22]. **meta-interfaces** [TLB20]. **Meta-learning** [FFFY20, PKK22]. **Meta-MgNet** [CDX22]. **metaball** [ZQC+23]. **metal** [CCER20, HXZ23, KAZS23]. **metal-dielectric** [CCER20]. **metalearning** [PZNK23]. **metallic** [FCGKR23, VCNC+21, VCCN+23]. **metamaterial** [CHG21]. **metamaterials** [Lin21]. **metastable** [ZLS22]. **metasurfaces** [LPM23]. **Method** [BS22a, CMNS21, GA24, KCS21, OLP23, Sel22, ZS21a,

AdS22, AGR23, Abg20, ARR23, AXWF23, ALM23, AHG21, AG24, AF20, ASKH21, ASJ23, ALCZ20, AMGCL21, ACHG+21, ACÉ+22, ALF+22, AMM+20b, AMM20a, AHWZ20, AMM23, AWB+20, AWB+21, ACR23, AS20, BKC22, BFP21, BBC21, BL22a, BBGT21, BCJM20, BFG22, Bat20b, BSR20, BB21, BB23a, BEB+22, BB20a, BDFT23, BHVJ22, BAK22, BV20, BV21, BBD+20, BSVL24, BMBM24, BR23, BPG21, BDWC23, BZB20, BTGA22, BWBT24, BKMM24, BEP+20, BPG23, BSW+22, BWG+20, BBP24, BCR24, BLM22, BL22b, BTKP24, BBKB21, BPJ22, BST23, BT24, BSLM24, BBA22, BFST23, BX20, BR22b, BSP21, CHMP24, CCLL20, CQY21, CBQ21, CCL21, Cai21, CCWX22a, CY23, CCJW24, Cam21, CWW22, CNB+23, CMP+21, CBCT+21, CJSZ23, CLS+20a, CZZ21, CK20, CNMB20]. **method**
[CLC24b, CXZ24, CP22b, CJT+20, CZLC20, CGJM21, CHF21, CS21a, CHZ+21, CW22a, CC22a, CZ22b, CL23a, Che23b, CZCY23, Che23a, CCGC23, CLXS23, CLW+24, CZL20, CLLL20, CLS20b, CW22b, CKLM+23, CFJF23, CAT20, CMSS21, CBBI20, CJK24b, CJK24a, CSM23, CMPZ22, Chi23, CBY23, CHZ22, CCAR22, CKN22b, CF22, CHM24, CVM23, CLP21, CLPP24, Coa21, Coa22, CX22a, Coc20, CA22a, CCB22, CCdS20, CPBB21, CPA+23, CMRR21, CSS24, CLS24b, CMS+22b, CL23b, DHM21a, DLZZ21, DEN22, DKM+20, DY22a, DNW23, DU20, DFJ22, DHK23, DGGL22, DSPB22, DEvW22, DC21, DT22a, DHM21b, DD21, DSS20, DCGQ20, DZC+23, DH20, DPX23, DL21, DN21, DLL22, DLYZ23, DW23, DYMC20, DC22a, DL24, DLY22, DE22, DFJ20, DZGP24, Dup21, DK21, DWM23, Edo22, EG20, EBC+22, EHW21, EM20, Eld22, EH22a, EPL21, EPL22, EMS+21, FTP20]. **method**
[FA22, FTY+22, FDH+24, FH24, FZLL20, FHJ22, Fei23, FZ20b, FLW20a, FCTZ24, FMS21, FFL+23, FBS23, FBG20, FAHA20, FGD+21, FHT21, FZ23, FMJ21, FMOJ22, FM23b, FM23a, FMB20, FGL+22, FPT23, FCM20b, FZ21, FCL21, FX22, GGCvR22, GvR24, GN23a, GJLD20, GMB+22, GHY22a, GLSZ22, Gao22, GQF23, GLF23, GHD24, GTDB22, GGB20, GGB22, GHY22b, GSOM23, GTWJ24, GDAP20, GA20, GU20, GK20, GDB23, GP23, GOF23, Gon24, GH23, GGN+20, GCP24, GBF+24, GF21, GLCS23, GMNY23, GJW24, GLWY22, GFJ+20, GL20, GAC20, GHTC21, GC23, HHAFR21, HPW21a, HT21a, HNS20, HLA20a, HSH20, HLB20, HSXZ21, HDML23, HR22, HYQ20, He22, HPH+23, HKKS21, HKS20, HTL21, HCL22, HPX23, HLPX24, HBF22, Heu21, HST22a, HHL20, HL22b, HF23, HQ22, HMXC23, HM21b, HTV+22, HR20, HKRS23, HPS23, HHRA19]. **method**
[HT21b, HQ20, HXX23, HWZ24, HP22b, HLA20c, HLY20, HWY20, HSS21, HZ22b, HJ23, HX23, HJQ+23, HLQZ23, HJ24a, HYH24, HP21b, dMKJ+22, HJ24b, IKP22, Ish22, JF20, JMM20, Jai22a, JKZS21, Jen20, JHY21, JFH21, JWZ20, JGvR23, JLCT22, JZZ22, JLYH24, JZL+24, JLXZ24, JDB+23, JJ21, JG21, JP22, JH23, KM22a, KYO22, KFSM21, KIHB21, KKM21, KJB+24, KLN20, KL22, KSH22, KNT22, KR23, KBCG20, KBS+21, KWR+23, KH20, KEY20, KdMJ+22, KWDS22, KJdM+22, KCK21, KNP20, KKY+21, KKS+21c, KVQE21, KCX+21, Kus20, KS21d, KB22b, KT20, KKJ21, LS22,

LCL+22b, Lak20, LL20, LLKY21, LZT+23, LCG22a, LCG22b, LCG23, LRVF22, LB24, LG24, LMS23, LTD+21, LG22, LTE23, LL23a, LL21b, LCS22, LCS23, LN23, Lem20, LTD+22, LJ22, LSW20, LWY+20, Li20, LWR20, LZZ21b, LB21, LRW21a, LTT21, LFY21, LZX+22a]. **method** [LQXM22, LL22, LLWX22, LW22a, LYZ22, LLL22, LY22a, tLjTbZ22, LLPL22, LXY23a, LLZ23b, LWF23, LSZ23b, LM23a, LGZC24, LLS24b, LZ20a, LH20, LP23a, LPJ+23, Lin21, LC22, LS23, LZ20b, LSZY20, LSLH20, LT20b, LMZ21b, LNC+21, LFZ21, LMG+21, LZLS21, LSZ21, LPZ22, LYS+22b, LRT+22b, LTK+22, LWWH23, LM23b, LSY+23, LFW23, LR23, LCWH23, LTBM23, LLOL24, LLT+24, LCP21b, LFL+22, LCP23, LMUHR22, LEH+21, LCP+24, LM21c, LA21, LMHL21, LX21, LL24b, LZJ+24, LM20c, LN24, LAN21, LY22c, LL23b, LHFH20, LWZ+21, LZCC22, MWY+20, MZ22, MLL+24, MN22, MACDR24, MMKM24, MCP23, MMZR21, MTK22, MJS23, MÖR24, MJJ21, MJ23, MBDS23, MKHI20, MSK+22, MA21, MDG20, MGL21, MFTZ20, MTW23, MZC+22, MDB24, MRG21, ML24, MM23, MIM20, MBM+22, MFK21, MCF23, MT21, Mon21, MBBV22, MMYT23, MD22, MFS+22, MMZZ22, MWZ23, MS20b, MMPD21, NdlLPL21, NG22]. **method** [NCQ22, NNJ21, NFL+21a, NAZ22, NZ24, NPD20, NT20, NLZ+22, NZRH24, NYY22, NW20, Nis20a, NW23, NWM21, OB20, ÖL23, OL20, OLS21, OSL22, Oru21, Osi20, OCGT22, OA21, OYK+22, PDM23, Pan20a, PHP21, PKC22, PC23, PWX24, PP24, PWbCJ24, PM21a, PBM23, PJW21, Pan20b, PZ24, PJR23, PAA23, PH21, PAGJ23, PMF20, PHX23, PM23, PSRM20, PC21b, PS22b, PBGB21, PL20, PKL+21, PLKM22, PD21, PK20, PGP+23, PGC24, PCA+23, PG20, PPHO22, QG21, QZZ+24, QXYZ23, QKG21, QCWC23, QJL23, QHLL20, QLY21, QC23, RG22, RKA+23, REC+22, RS20c, RSWD21, RFZ22, RZ23, RRN23, RR22, RKRW20, RZH20, RLD24a, RSSK24, RBF+21, RRPSS21, RA21, RRHH+21, RRFK+21, RPDO+21, RMWS21, Sac22, SH23a, SOSM20, Sar21b, SCB20, SMK23, SVW21, SB23, SHM+23a, SHS+20, SGPW21, SW22, Sev21, SRV21]. **method** [SV23, SC22a, SHM23b, SLBH23, SWF21, SYL23, SYC+23, SBL22, SK23a, SRD20, SXZ+23, SY21, SSS20, SPZ22, SSX23, Shi23, SL22c, SL23, SHM24, SMY22, SSTD24, SCdHJ20, SJGC21, SKCM22, SMF20, SST+23, SBCL24, SS22c, SP22, SLNM21, Sti20, SDA+21, SZ21, SMLM23, TTY22, Tak23, TWY22a, TFCH22, TWY23, TJC21, TZ24, TN23, TAWD23, TB23, TV22, TJM23, The21, TZM+20, TPPA22, TKR22, TB21, TVL+22, TRC22, TBP20, TSS+20, TEA+23, TH23, TF20, TWY+22b, UD22, Vab23, VMO21, VTC20, VRK21a, VVL21, VGG23, VVRWT21, VCNC+21, VCCN+23, VBB+23, VK24, Vre17, Vre21a, VFBD23, WBN21, WRBK20, WGY20, WGS+20, WZ20, WW20b, WCZ+20, WQZP20, WDL21b, WZC21, WCF+21, WNB21, WZW21, WZCK21, WXZ22, WH22b, WF23, WZZ23, WJHS23, WGSX23, Wan23, WWJ24, WWZZ24a, WSS22, WJKW20, WVRLG23, WYS20]. **method**
[WZ23a, WK23, WZ23b, WR23c, WTZB23, WGY+21, WK21b, WBH+24, Xia23, XFL21, XMY22, XY20a, XS20, XDLX21, XLS22, Xie22, XSHH20,

XHS21, XJS21, XS22a, XHZ22, XHS23, XC23b, XMZ+23, XM20, XSA+21, XZNZ23, YG24, YS22, YI23, YGW+20, YLNT20, YZdCNS21, YZSD21, YA21, YX22, YLLG24, YFY22, YAX20, YOH+20, YCC+22, YLS21, YMY+21, Yin21, YZW23, Yok24, YK20b, YNT20, YYB23, YB22, YP22, YDC22, YXL22, YP24, Yua21, YL24a, ZSP20, ZP20, ZXMK21, ZB21a, ZB21b, ZS22a, ZA20, ZWY21, ZH23, ZCY23, ZY20b, ZML20, ZY20a, ZCL20, ZZC20, ZJZK20, ZZ20, ZL21a, ZFG21, ZA21, ZRH21, ZHPZ21, ZDW22, ZHY22, ZSsC+22, ZLW+22a, ZC23, ZQC+23, ZSST23, ZZ23a, ZMZY23, ZABP+24, ZWN24, ZH20, ZR20, ZZZ20, ZCY+21, ZR21, ZZN22, ZMG+22, ZMTZ24, ZZY+20, ZSY21, ZDC20, ZB21c, ZQL+22, ZLW22b, ZYY23, ZY24, ZZH22, ZYD20, ZL22, aZWY23, ZOEL20].
method [aKAK20, dKSA21, dSLdA+22, vGAtTBI23, vNGB22, vdEW23, vdWvBAA24, AEGV22, DSG+22, FB22, Nik23, YSN23]. **method-based** [CSM23]. **method-of-moments** [FMJ21, FMOJ22, FM23b, FM23a].
methodology
[AAM20, AP20, AWP23, DGL+22, HSS22, LG24, WTX+21, YWN20].
Methods [JLL20, PMZ+23, RHD+24, STWK21, AFS+23, AMG23b, AuIL20, AC23, ARB+21, Ani21, AFGLM20, AZ22, ADM22, AM22, BL22a, BGNZ22, BRT22, BDHO24, BZSF20, BGGM22, Bel24, BBQ+21, BCF22, BDZ23, BKY21, BGSP22, BVT20, BBMA23, BSV22, BHK+22, BV22, BNT23, BL21b, BY20, BFC23, BE20, BSK+23, CCLL20, CL21, CQW24, CG24, CMPR23, CAG20, CA24, CLW20, CHSS20, CL20d, CLDC20, CYS22, CYYS22, CCE+21, CSLC21, CSY23, CP20, CBCF20, CRPB20, CND22, CDN+22, CLS24b, CCLM22, CdS22, CCH20, CEM20, CH24, DHM21a, DMN22, DGGL22, DR20, DV20, DWZ20, DY22c, DY22d, DSZ22, DS23b, DYZ24, DJID20, DS22b, DFW22, DM23c, DW22, EWN+23, EH22b, EFY23, FCM+20a, FSM+22, FMWK20, FHWK21, FJ21, FGKY22, FHM24, FDP20, FR23, FO22, FY22, FCY+20, GM23a, GCMV23, GC20a, GHHR22, GCV22].
methods
[GNW22, GTKA20, GHS22, GC20b, GLY20, GLL20, HKJ21, HLM+20, Hig20, Hig22, HA21, HPRW20, HHLS22, HJLZ23, HCL20, JAW+23, JLY22, JKJ20, JG21, JLQY21, KP24, KV23a, KS23, Kar22, KBB21, Kem24, KRL21, KLG+22, KNG22, KGN22, KLF22, KF23, KSBG20, KKSY21, KMF20, KV23d, LGZ21, LL21a, LSXC20, LXD+20, LLZ+20a, LZZ21a, LLNL21, Li23, LC24, LNF20, LZX20, LW23, LC23, LsCxL+20, MMS24, MB24, MKB20, MYM+21, MPZ23, MPZ24, MPBG23, MKM23, MPIG23, MYZ22, MFdSS24, MR23b, NG22, NS22, NVPP23, OPHY23, OKTD21, PWL+23, PWK20, PPP21, PZ20, PBN+21, PGM22, PBCL20, PBZ24, PSCK23, PGCC+22, PGMTP23, PO23, RMD20, RS20b, RV22, RWQX23, RWBS21, RB21, RSA+20, RV20, RBD+21, RPA22, RRHCG23, SZN19, SZN20, SL20a, SL22a, San20, SPdF20, SWG+20, SGW+23, SRH21, SDKL21, SS22a, SBVM20].
methods [SOG+22, SMR22, SAH+22, SW23, SX20, SSX22, SNW23, TACO22, TM23, TWZG22, TTP22, Tur24, Vre20, Vre21b, WWG20, WR23a, WKW+22, WKK23, WX24b, WZX24, WT24, WZ21b, XSC21, XGCW+20, XHX22, XSSS22, XCL+21, XS22b, XS23, YJH23, YYX21, YYLY22, YZK23,

YZZ24, YK20b, YGL20, YH22b, YL24b, ZX20, ZZZ22, ZCZ22, ZGLL20, ZOWW20, ZMSX20, ZWZL22, Zha22, ZXY22, ZHR20, ZZYX20, ZMW23, ZTZX24, ZQS+21, ZWR24, ZQS20]. **Methodsl** [BLLL23]. **Metric** [FC21, HEG23, KHM+22, DM23b, PBF24]. **Metric-based** [FC21, DM23b, PBF24]. **metrics** [PMZ+23]. **MFD** [RHD+24]. **MFSH** [GMMS22]. **MgNet** [CDX22]. **MGRIT** [SdSPS24]. **MHD** [BMBM24, BWG+20, CWX23, FZB+23, GGB22, HPW21b, HLX21, KK20b, LHF23, LZZ21b, LL22, LZLS21, LFW23, MSC+20, MD21, PHHJ22, RRHH+21, STC+21, TCK+22, ZHY22]. **MHD-AEPIC** [STC+21]. **MHD-kinetic** [HPW21b]. **micro** [EH22a, HSB20, KV23b, KFP+22, LYL20, SCdHJ20, TUCT24]. **micro-heterogeneities** [SCdHJ20]. **micro-macro** [EH22a, HSB20, KV23b]. **micro-networks** [LYL20]. **micro-region** [TUCT24]. **micro-turbulence** [KFP+22]. **microenvironment** [NE23]. **microinstability** [FGB+20]. **micromagnetics** [XGCW+20]. **micromechanical** [DYGC22]. **micromechanics** [YZH+23]. **microscale** [ML23, SKCM22, ZLW+21]. **microscale-macroscale** [ZLW+21]. **microscopic** [GPL22, HHVM20, HJH+21, YJP23]. **microstructural** [ZOG21a]. **microstructure** [LPS21]. **microstructures** [FSW22, GDAP20, RPA22]. **microvasculature** [DFP+21a]. **microwave** [BAK22, DW20a]. **Midpoint** [dPS24]. **migration** [WZ22]. **Miller** [Sel22]. **Mills** [DOQ23]. **MIM** [LZCC22]. **Mimetic** [RHD+24, AT20, HSG+22, LP20a, PC21b, PGP+23, TBP20, ZFG21, ZA21, ZPGR22, Bat20b]. **mimicking** [MAPS20]. **mimics** [NG22]. **Mindlin** [GQF24]. **minimal** [LZLZ21]. **minimalistic** [Ale23]. **Minimally** [BVR22]. **Minimally-invasive** [BVR22]. **minimax** [YGJ21a, YGJ21b]. **minimization** [Sar21b]. **minimized** [LCR22, LMN20]. **minimizing** [FCM20b, LFP+21, MCP23, PKSH23, PGC24, WXZ22]. **minimum** [BBO+22, YZK23]. **minimum-type** [YZK23]. **misaligned** [RGH+22]. **miscible** [FGKY22, FGTY23, GLY20, PAA21]. **missing** [HJLY21]. **misspecification** [ZMK24]. **Mitigating** [LXCZ24, BF22, BFM23]. **mitigation** [BD20b]. **Mittag** [LSC20a]. **Mittag-Leffler** [LSC20a]. **Mixed** [CdS22, AFS+23, AFL22, BPG21, CCHS20a, CP20, FHM24, FB22, GHD24, GA20, GR24, HRWP22, KSHJ20, KWS22, LP20a, LJK+24, LZCC22, NFA21, NGK+21, PS22b, RLD24b, RSA+20, YK20b, YKFH23]. **mixed-curved** [YK20b]. **mixed-dimension** [KSHJ20, KWS22]. **mixed-dimensional** [GR24]. **mixed-hybrid** [NFA21]. **mixed-order** [GA20]. **Mixed-precision** [CdS22]. **mixing** [AMK+21, JDB+23]. **mixture** [SS23, SDA+21]. **mixtures** [BR22a, CCN21, PAA21]. **ML** [KEML+24]. **MLS** [REC+22]. **mobile** [ZR24b]. **mobile-bed** [ZR24b]. **mobility** [BST23, LZC+23]. **MOC** [FSM+22]. **modal** [CLW22, EM20, dMKJ+22, NdlLPL21, SKCM22, WX20]. **ModalPINN** [RHG22]. **Mode** [KUO23, ASVL23, CCE+22, CS21b, GM23b, GLSZ22, HTRC23, JL22, JZL+24, JP22, LGMV22, LAT+22, LLLL23, LT20c, LT21, MH22a, MFdSS24, NKT21, PA20, RWH+24, WZ22, YhCdJ+23]. **Model** [BW20, CCGC23, Da22, HWDM22, LC20, MZ23, PH22, RHD+24,

SL20b, SM21b, YH22b, ZGLL20, ARR23, AFV20, Aca24, AdDMT21, AEGV22, Ara20, BBH+20, BCC+24, BF22, BFM23, BTT24, BCL+23, BSR20, BVR22, BTZ22, BVRS22, BCPV21, BF24, BTGA22, BCR22, BD20a, BCP22, BCSK21, BTL23, BX20, CCJW24, Cal21, CFS+22, CMH20, CNMB20, CHCC23, CY22b, CZ22b, CYS23, CG23, CPH+22, CKLM+23, CBA+21, CMRR21, CCLM22, DNW23, DA23, DVV22, DSBFN+20, DC21, DD22b, DFP+21a, DYGC22, DMC+23, DCSG22, DFP+21b, EH22a, EAK20, FCP21, FLZ20, FS23b, FHJ22, FQSW23, FTPB23, FTZ22, FM20, Fu20, FS21, FP23, GJLD20, DPI24, GQR21, GQR23, GT21, GHNS21, GFY20, HHK+23, HdB21, HRG+23, HR23, HP23, HZHL22, HLL23, HKS20, HKW24, HSMR20, HBBN24, HKMR20, HPRW20, HSB20, HHRA19, HX21]. **model** [HT20, HT21b, HWZ24, HLA20b, HLA20c, HCL20, HLA21, HLA22a, HABG23, HLQZ23, JM23, JYK22, JO22, JLL22, JRY+20, KTDG22, KB24, KC20a, KAO+20, KUO23, KV20, KMR23, KCWZ22, KBG23, KJ24, KG20, KHS20, KWS22, KCCJ21, KKJ21, Lak20, LP20a, LL21b, LCS22, LLB+23, LSC20b, LYZW21, LZ22a, LCCM22, LZS22a, LZS22b, LZPM22, LLF23, LO23, LZH23, LPH+24, LGZC24, LY20a, LL21c, LRW21b, LHWZ21, LJK+24, LMFV22a, LMFV22b, LYH23, LMPT24, LCJ+20b, LKJL22, MACDR24, MD20a, MR22, MMLL+24, MCBA20, MTT+23, MKM23, MM24, Mis23, MH22b, MYY+23, MRL+23, MMRP22, MWZ23, MAP+20, NAZ22, NP23, NMGR21, NGK+21, NKA+20, OA21, PHP21, Pan20b, PC21a, PR23, PBCL20, PAA21, PAM23, PMH24, Pop20, QJQW22, QWZW23, QXYZ23, QHZ+22, QHLL20, RS20a, RMD20, RSA+22, Rei22, RK21, RB21, RHC+24, RA23, SBH21, SEG21a, SVW21, SS23, Ser23]. **model** [SRTB21, SGT23, SHL+20, SWHJ22, STC+21, SLF23b, SKCM22, STB+21, SBCL24, LF24a, SC22b, SM22, SI22, TT22a, TLD20, TL20, TKR22, TUCT24, VSB+21, VFBD23, WMS21, WW20a, WCC+20, WNZ20, WCL+20, WWYC21, WCF+21, WCM+21, WY22a, WY22b, WSAZ22, WZZ23, WLZ+24b, WCKS24, WZ23a, WLZP21, WLZ21, XZ22, XJL23, XC20, Xie22, XC23a, XY20b, XHY23, YHC+22, Yan21b, Yan21c, YRHN22, YWClL22, YSC23, YTWK23, YLK23, YFY22, YKFH23, YM20, ZH23, ZY20b, ZHL21, ZWZL22, ZMWS22, ZC23, ZYL23a, ZZ23a, ZS24, ZWN24, ZAW+20, ZZN22, ZLB22, ZIMA24, ZCY24, ZAMG20, ZKY+20, ZXD22, ZBP+24, ZAA23, ZMK24, dZBDMC24]. **model-based** [GHNS21]. **model-data** [DCSG22]. **model-form** [HWDM22]. **model-order** [BVR22]. **modeled** [CGL+23, HYP24, KH21a, KS21d, ZB24, vNGB22, DA23]. **Modeling** [CPD+24, CMS+22a, CDL+22, ELL+23, EDLF20, FS23a, GZ20, He22, KSHJ20, PBVC22, ZDC20, AYH+21, ASSZ21, AB23, AAMPR24, AHJ23, BHVJ22, Ben23, BABD21, BBH23, BBMA23, Cha20, CL20b, CHF21, CWHZ21, CCWX22b, CCCH23, CNC21, CCXX23, CMCX23, DSS+22, DJ22, DJ23, DH24, DOL23, EFS+20, EdLCCCO24, FTP20, FW24, FCWS22, FSDB20, GM23a, GdFP+24, GCP24, GLLB20, HHAFR21, HZB+21, HLB20, HDML23, HRR21, HPH+23, HGH20, Hig20, HGZ23, HZ22a, HD23, HTRC23, Ian20, JZB+24, JADS21, KNLB21, KWDS22, KSST21, LN22, LBN21, Le21a,

LRT13, LYL20, LRW21a, LE21b, LJ23, LWY23, LLLL23, LHA+21, LLZL20, Liu20b, LWX24, LAS22, Mar24, MMSW22, MX22, MP21, MCI23, NBR22, POS+20, PPV+21, PJW21, PJR23, PB20b, PZNK22, PCD23, QH23, QERT20, RMJ23, RHSK21, RRBR+23, RBF+21, RIC+22, RE22, SYOS19, SYOS21].
modeling
[SMK23, SWHJ22, SML20, SBJ+23, SLOZ21b, SLOZ21a, TNB21, WCF22, WWFM22, WCZ22, WD23, WA23, WKA+20, XLLH21, XLHB22, XBD+20, XBRL21, XD22, YWN20, YZSD21, YRC+21, YZK20, YQO20, ZX20, ZTS20, ZSL+23, ZWY+23, ZJSX23, ZZK20, ZLW22b, ZLW23, ZPK22, dv23a].
modeling-based [YZSD21]. **Modelling** [LBM20, Abg20, ACR23, BTEK22, BJR22, Cie20, DCHF21, FBD+22, IMJ20, LKvM+22, SSG21, SW22, SDP20, SRM24, VPL20, WR23b, XHLH23, YLLG24, YKH24, ZABP+24]. **models**
[AP21, ASBM20, AMK+21, AMW22, APR22, ACDV24, BHW23, BGR20, BSCG22, BGS+22b, CDBS21, CDT22b, CL20b, CFM22, Che23b, CBA+20, CY21, DS23a, DS21, DEB21, EDEV23, FGTY23, FFGRLS+20, FY22, GPL22, GDBFN+20, GZW20b, GCD20, GWZ22, HdB20, HSK+21, HZX23, HJK+21, HNR23, HNZ23a, HLA22b, HCCR22, HSG+22, IT22, ISM+23, JD23, KP24, KMS20, KRG+23, KC20b, KS22d, KS24a, KV23b, KFP+22, KLPR20, LCH20, LPS21, LSL20, LLM20, LHPS24, LT20c, LT24, MGMV22, MFK21, NFB23, PRKS23, PBJ+22, PS22c, PB22, Poë23, RWdBAG23, RLH22, San20, SKP+21, SBC20, SL20b, SL22b, hSMLS23, SMS23, SM22, SPAC23, TZ20, TBST20, Tow20, TAVD21, VAK+23, WRH20, WLS22, WZSK22, XLLH21, XCL22, YcD20, YcD23, YJP23, YBST24, ZA21, ZOG21a, ZHPZ21, ZXLH23, ZWB21, ZR24b, ZSKN22]. **moderate** [LSC+20c]. **modes**
[CSM20, DNO23, KB24, TWY+22b]. **modification** [FAA20, Gon24].
Modified [Bel24, KK22b, KT20, YTWK23, YLK23, DL21, HCdM23, SHM23b, TPYX22, WNZ20, XJL23, Xie22, ZOWW20]. **modified-energy**
[ZOWW20]. **modulated** [GDAP20]. **modulation** [PM22b]. **mole** [PCF21].
molecular
[ACHG+21, ALL22, BZ21, Cai22, DG23, FLW+23, GLLB20, HX21, Li21, LTK+22, LZC+23, LLZ20b, MR22, NMGR21, PSJ23, Suk23, VK22, XCL+21].
molecular-continuum [MR22]. **molecules** [Cie20]. **Moment**
[Cai21, FCM+20a, ML20, NWM21, BKY21, BKMM24, BT20, BFC23, CLXS23, CBY23, DK21, EdLCCCO24, FLZ20, GK20, HPW21a, HPX23, HLPX24, HCCR22, KV23b, KNP20, Lem20, LSLH20, LM21c, ML24, MMdMB22, Nis22a, PO23, SKT20, Sar21b, SL20b, SL22b, SBVM20, TM23, WGB22, XDLX21, YcD20, YcD23, YZW23, ZWLG23, vdWvBAA24].
moment-closures [YcD23]. **Moment-of-fluid**
[ML20, HPX23, HLPX24, Lem20, LSLH20, ML24]. **Moments**
[SK23b, YGW+20, FSM+22, FMJ21, FMOJ22, FM23b, FM23a, PPHO22, Sha23, VVL21]. **Moments-based** [SK23b, Sha23]. **momentum**
[CV23, DC21, EJ21, KR22, Liu23, MM21c, MM22, SMY22, WLKR23, YK20a, ZJ22, ZOEL20, vdEW23]. **momentum-weighted** [KR22]. **Mondrian**
[SSG21]. **Monge** [TSSOA20]. **monitoring** [CDG+24, DZJ22, HMMO20].

monodomain [CCJW24, WCF+21]. **monolayers** [Cie20]. **Monolithic** [ALMF23, PKC22, CPK22, CMS+22b, HSXZ21, LHXZ22, XC23b]. **monotone** [CA24]. **Monotonicity** [BB20c, LVK+22, YYLY22, GYWH20, OGG20, YM21]. **Monotonicity-Preserving** [LVK+22, BB20c, YM21]. **Monte** [Mar24, NFPSSA24, SXZ+23, ALF+22, BBQ+21, DZC+23, Fei23, GN23a, GP23, HLZ20, HJLZ23, KOM+22, KFP+22, KNP20, KSK21, LT22a, LCPW23, LGL23b, LMG+21, LTK+22, LLT+24, LMUHR22, MRBS22, OGVM22, Osi24, PJW21, PZ20, PV20, PB22, Poë22, RA21, SH23a, SGMT20, SGM21, SSX23, Shi23, SBJ+23, SH22, TT20, TBD+20, VM22, WPBS22, XHC24, YS22, Yan21a, ZS21b]. **Monte-Carlo** [ALF+22, PV20, RA21, SH22]. **MOOD** [BLM22, BL22b]. **Mori** [LL21c, WRH20]. **morphing** [AF24]. **Morphological** [WCA+20]. **morphology** [ZAMG20]. **Morse** [WKK23]. **mortar** [EFR21, ZL21a]. **most** [LLS24a, YR22]. **motion** [Li21, LX21, NTSM20, OSZ21, PSJ23, SB23, Ume23, ZEG20]. **movement** [PKSH23]. **Moving** [GTKA20, GKA22, MKHI20, AR20, BBGT21, BFG22, BSW+22, BR22b, CNB+23, CZZ21, CP22b, CZCY23, Coc20, CBC+23, DT21a, DT22c, GvR24, GBC+20, GLF23, GHD24, GLCS23, HGZ23, HR20, HLQZ23, KH20, KHM+22, LL20, LWL22, LW22a, LMZ21b, LJS+23, LMN20, LAN21, MSK+22, MOMS24, MMZZ22, NGZD22, OB20, PD21, SM21a, SHL+20, TKR22, Vre17, Vre21a, WCF+21, WZL21, XFL21, XS20, XLHB22, XLS22, XLT+20, YWCB22, YYB23, ZY20a, ZPW+23, ZDT23, ZR20, ZCY+21, ZKY+20, vGAtTBI23, vGAtTBI24, vdEW23]. **moving-least-square** [GLF23]. **moving-least-squares** [CZCY23]. **moving-mesh** [BR22b]. **MPAS** [CP22a]. **MPFA** [SWG+20, dSdCdMC+24]. **MPFA-D** [dSdCdMC+24]. **MPI** [LZC+20]. **MPI-based** [LZC+20]. **MPS** [JKZS21]. **MR** [LWZ23]. **MR-WENO** [LWZ23]. **MS** [XHS23]. **MS-XFEM** [XHS23]. **MsRSB** [BKMC21]. **much** [Giv23]. **Multi** [ABH21, BPBM23, CSMH24, CCW20, DZ22, DMK+24, EPL22, GQF23, GKNÖ23, HST22b, KKY22, KS21b, LSQ21, LWZ22, MBK21, MN20, MP21, ODM23, SH22, SSX22, VKR+22, WL24a, WZSK22, YDC22, ZJ22, ZWN24, ZBY+23, AF23, ACR23, Bar21b, BS22b, Bel24, BCJ24, BDB21, CS20, Cha21, CHSS20, CLXS23, CS24a, CDX+21, CSS24, CdS22, DS23a, DFJ22, DhJV+22, DYMC20, DFJ20, DV22, EHW21, FSWA22, FN22, FBCD22, FTK23, GN23a, Gar21, DCC+24, HHK+23, HSM20, HZHL22, HLL23, HVD23, HPX23, Hig20, HHLS22, HWDM22, HD23, HSG+22, Jai22c, JZSX24, JTT23, KYO22, KS21a, KKS21a, KSK+24, KK22a, KFP+22, KD21b, LB24, LVK+22, LPL+22, LLWX22, LLQ+23, LXZ23, LZ24b, LSLH20, LPZ22, LTK+22, LFL+22, LLN22, MZI+23, MLL+24, MS20a, MCP23, MST24, MK20, MVO+22, MD22, NFPSSA24, PZZ+23, PWL+23, PAA23, PAA21, DM23b, QJL23]. **multi** [RS20b, RZH20, Sar21a, Say22, SL22c, SL23, SX20, TWY22a, TYBW23, VSS21, VGG23, VBB+23, WBN21, WWYC21, WZTZ21, WDS22, WZWZ23, WX24a, XF21b, XF21a, XDLX21, XYL22, YLK23, YKdHC20, YZW23, YJK24, ZZML20, ZRH21, ZW22, Zha22, ZYZ+23, ZSST23, ZZ24, ZYY+24,

ZSY24, ZQS20, ZS20, ZPS+21, SAL+20]. **Multi-agent** [DMK+24]. **multi-channel** [ZYY+24]. **Multi-component** [ZWN24, FTK23, KK22a, LVK+22, LLQ+23, MS20a, PAA21, Say22, TWY22a, ZYZ+23, ZSY24]. **Multi-condition** [KKY22]. **multi-continuum** [MCP23]. **multi-core** [LFL+22]. **multi-degree-of-freedom** [PZZ+23]. **Multi-dimensional** [DZ22, GKNÖ23, Bar21b, EHW21, HSG+22, KYO22, LPZ22, YZW23]. **multi-dimensional-aware** [DCC+24]. **Multi-domain** [KS21b, LLN22]. **multi-domains** [Jai22c]. **multi-eigenpairs** [WX24a]. **Multi-element** [EPL22, VGG23]. **Multi-fidelity** [BPBM23, MBK21, BS22b, Cha21, CS24a, KFP+22, MK20, ZYY+24]. **multi-fluid** [DS23a, MST24]. **Multi-frequency** [SH22]. **Multi-GPU** [ZBY+23, SAL+20]. **multi-grid** [RS20b]. **multi-group** [ZSST23]. **Multi-index** [HST22b]. **multi-invariant** [MVO+22]. **multi-layer** [CSS24, Hig20]. **Multi-level** [GQF23, DV22, GN23a, HSM20, KD21b]. **Multi-material** [VKR+22, HLL23, HPX23, KKS21a, LB24, LSLH20, MZI+23, PWL+23, DM23b, QJL23, TYBW23, VSS21, WBN21, WWYC21]. **multi-moment** [CLXS23, XDLX21]. **Multi-objective** [WZSK22, FSWA22, KKY22]. **multi-patch** [FBCD22]. **multi-phase** [BDB21, CDX+21, HZHL22, JTT23, KS21a, PAA23, RZH20, VSS21, YLK23, YJK24, ZW22]. **Multi-physics** [MN20, ZZML20]. **Multi-point** [ZJ22]. **multi-prediction** [PZZ+23]. **multi-rate** [YKdHC20]. **multi-region** [Gar21, Sar21a]. **multi-relaxation** [CW22b, DFJ20]. **Multi-resolution** [LSQ21, YDC22, DYMC20, JZSX24, LZ24b, MLL+24, VBB+23, WZTZ21, WZWZ23, ZRH21, ZZ24, ZBY+23, ZQS20, ZS20]. **Multi-scale** [ABH21, MP21, ODM23, AF23, ACR23, BCJ24, CdS22, DhJV+22, EHW21, HWDM22, HD23, KSK+24, LPL+22, LXZ23, LTK+22, MD22, XF21b, XF21a, ZPS+21]. **multi-space** [HVD23]. **multi-space/time** [HVD23]. **Multi-species** [CSMH24, DS23a, DFJ22, FN22, HHK+23, LLWX22, XYL22]. **Multi-stage** [CCW20, WL24a, NFPSSA24, SL22c, SL23]. **multi-state** [WDS22]. **multi-step** [Bel24]. **Multi-symplectic** [SSX22, CS20, CHSS20, HHLS22, Zha22]. **multi-symplecticity** [SX20]. **Multi-variance** [LWZ22]. **multiblob** [BST23]. **multiblock** [AD20, JLC21]. **Multicomponent** [CSF+24, SvDtTB21, ARR23, BV20, BV21, BPG23, DY22d, FSB+20, FM20, GM23a, LZ20a, PLKM22, Ren21, SBC20, YFY22, ZWY+23]. **multicontinua** [VLC+20]. **Multicontinuum** [EL23, Vas23]. **multicorrector** [LBC23]. **Multidimensional** [BGGM22, CZHY20, FPT20, SGB+21b, BV20, CJK24b, GCLM22, HKKS21, KBCH20, Lep21, LFW23, MD20a, MZ20, MGT+21, SMRW22, TGM23, WZ21a, WZ24b, ZNK23, ZQL+22, vdEW24]. **Multidirectional** [DMRG22]. **Multifidelity** [HPKS23, PGR+23, PZNK22, WPBS22, DSS+22, GGEJ20, JD23, PWB24, RRN23]. **multifluid** [CMS+22b, WHN+20]. **multifluid-Maxwell** [WHN+20]. **multifractional** [GP23]. **Multigrid** [BGGM21, RSO20, ALMF23, Ani21, ACR23, BTGA22, CDX22, Coc20, CMS23, Der23, DC22b, FMWK20, FLW+23, HRG20,

dMKJ+22, KRL21, LR23, MHLR22, MLCM21, PP22a, PWH+22, RAZA21, SLF23a, SMV22, SAL+20, TY24, WGSX23, YM20, MLCM22]. **multigrid/ensemble** [MLCM21]. **Multigroup** [Poë23, GA20]. **Multigroup-like** [Poë23]. **Multilayer** [GDBFN+20, GMMS22, LYS22a, Pop20, ZS21b]. **multilayers** [ZZY21]. **Multilevel** [GA20, MRBS22, BCWD21, BPS23, Bat20b, BBQ+21, CYYS22, HXX23, HJLZ23, KNP20, LSS20, LYY20, LLT+24, MBTS20, TT20, WPBS22, dSLdA+22]. **multimaterial** [JN20, QJQW22]. **Multiphase** [WCA+20, ASJ23, AHJ23, AK22, BDF+23, CHMP24, CFSH20, CYHY23, CBBI20, CI21a, CI21b, DZJ22, DCHF21, DDVO21, DSPB22, DPX23, EFS+20, EAA+22, FTP20, DPI24, GH23, GCP24, HdB20, HPW21a, HYSS22, HLA22b, HJ23, HJ24a, JHJ20, JAW+23, JFH21, JLCT22, JP23, KAO+20, KD21a, LW22b, LZPM22, LMZ21b, LNC+21, LCP21b, LCP23, LW20b, MFRZ22, PBM23, PAA21, PAM23, Rei22, SBH21, SLOZ21b, SLOZ21a, TKGB23, TZM+20, VTC20, WL20, WGY+21, XJN+20, XHX22, YHC+22, YRHN22, Yok24, ZX20, ZSZ23, ZFAA24, ZJ21, ZSY21, ZAA23]. **multiphysics** [CWL+21, HPPZ20, NAZ22]. **Multiple** [MTB22, BEP+20, CMS+22a, CDG+24, CDW23, FVM22, FVM23, GGCvR22, KLA23, KM22b, LRT13, LW22a, LHWZ21, Oru21, SDP20, VBA22, XHS23, YSCM21, YTK22, ZTS20, ZPW+23, ZZW23, ZZW24b, ZHH+24, dv23a, WCP23]. **Multiple-GPU** [WCP23]. **multiple-relaxation-time** [LHWZ21]. **multiple-scale** [Oru21]. **multiplication** [AR21]. **multiplicative** [HHS22, LGYK24]. **multiplier** [AST21, HNZ23a, LSZ23b]. **multipliers** [BHK+22, SGPW21, ZSKN22]. **Multipole** [GA24, Sel22, BS20, GKD23, Kus20, RS20b, WCZ+20, WZC21]. **Multirate** [MDF21, CFSH20, LJW+22]. **Multiresolution** [LPBK23, BGGM22, YLS21]. **Multiscale** [AAMPR24, AEGV22, BSVM23, FCL21, HSXZ21, KM22a, KH21b, LLZ+20a, MCT21, NdlLPL21, Nik23, RSA+20, VACE21, XHS21, ADK+21, AFS+23, AKWY20, BGSP22, BKMC21, CG24, CFSH20, CA24, CHCC23, CCHS20a, CCE+21, CP20, CELV21, CELV22, CPA+23, DCHF21, EPV21, ELLZ22, ELL+23, EAA+22, FGK22, FZLL20, FCTZ24, FCM20b, FZ21, GJW24, HTKT21, HZB+21, HZY22, ISM+23, JLY22, KC20b, KT24, LN23, LLB+23, LLZ22, LJ21, LFY21, LH21, LJ23, LM23a, LZ20b, LZZW24, LXCZ24, MR22, MCP23, ML23, MCI23, PPV+21, PZ22, PMSP23, Pop20, PGC24, QERT20, RS20a, RDAB23, RC20b, SZW+20, THKT21, VLC+20, Vas23, WCC+20, WCC23, XZ22, XHS23, YXL22, YM20, ZDW22, ZG20, dSLdA+22, BLLL23]. **multispecies** [SMAY22]. **multispeed** [CYS23]. **multisymplectic** [CJ21]. **multitask** [PMSP23]. **Multivariate** [SBJ+23, Gao24, RA23, Say22]. **Murdoch** [XLHB22]. **MUSCL** [Nis20c, TYC23, TYC24, vLN21]. **MUSIC** [Par22]. **MUSIC-type** [Par22]. **Mutual** [THKT21]. **MWCAWE** [RA23]. **myocardial** [DFP+21a, MNG+22].

Naghdi [GKPT22, Mar20, TGM23]. **Nagumo** [CCJW24, WCF+21]. **nano**

[BFG23, CCER20, CE21]. **nano-droplets** [BFG23].
nano-droplets/bubbles [BFG23]. **nano-photonics** [CE21].
nano-structures [CCER20]. **nanoscale** [ZZY+20]. **nanosecond** [MAP+20].
nanostructures [VCNC+21, VCCN+23]. **nanotubes** [YB22]. **nanowires**
[FCGKR23]. **narrow** [AD20, Sab20, TLKK23, ZD21]. **narrow-fit** [TLKK23].
narrow-stencil [AD20]. **NAS** [WZ24a]. **NAS-PINN** [WZ24a]. **Natural**
[PO21, EFO19, EFO20, HSS21, LAS22, PKC22]. **nature** [CHZ22]. **Navier**
[CZ20a, GHHR22, HS23, JCLK21, LFT+20, LMFV22a, LMFV22b, SMLM23,
ZH21, ADK+21, AK21, Bal21, BCIT22, BDP23a, BP21, BSZ+23, BSK+23,
Cap23, CB24, CLW22, CLDC20, CJW22, CKLM+23, CQA21, CK21, CPK22,
CS23, Coc20, DY22a, DD22b, DLY22, DGW22, FZQ21, FZQ22a, FH24,
FHWK21, Fei23, FQSW23, FWNT21, GGCvR22, GNZ23, GQR23, GS22,
GCL+22, HBFB20, HKMR20, HMO+20, HR20, HRWP22, JGvR23, JCLK21,
JKJ20, JK20, KS22c, KS22b, KS23, KMR23, KLS+20, KSI+23, KKPB20,
KS24a, LN21a, LN22, LG20, LD20a, Li20, LCSZ21, LLNL21, LLO22b,
LWF23, LNYD20, LCT23, LZ23, LP20b, MRK+20a, MRK+20b, MHLR22,
MOBR22, MDF21, MHY20, NGZD22, NYY22, NMR+22, OY21, OBB22,
PCB21, PCB22, QHLL20, RUG20, RS23b, RRFK+21, Sel22, SP22, UY22,
WZTZ21, WH22b, WJHS23, WZ24b, WHS22, YU22, YLK20, YA21, ZL21b].
Navier [ZPGR22, ZLW+22a, ZT23, aKAK20, dLF23]. **Near**
[LYZ22, BDWC23, CZLC20, GZW20a, GWC+22, Ish22, LWY+20, PN22,
YGJ21a, YGJ21b]. **near-axis** [GWC+22]. **near-boundary** [CZLC20].
Near-field [LYZ22, PN22]. **near-ground** [LWY+20]. **near-minimax**
[YGJ21a, YGJ21b]. **near-wall** [BDWC23]. **nearest** [GLSZ22]. **nearly**
[CCB22, GLK20, LLKY21]. **nearly-conservative** [CCB22]. **necrosis**
[LHL+22]. **neighbors** [GLSZ22]. **neighbour** [Ale23]. **nematic**
[SVW21, WSS22, CY22b]. **neoclassical** [VCPGR20]. **Nernst**
[CXZ24, KKJ21, LWYY22, LM23b, QWZ21, QXYZ23, XC23a, YFLL21,
ZGLL20, RAB23]. **nested** [KKN20, VCNC+21, WZTZ21]. **Net**
[LY22b, TR21]. **nets** [JCLK21]. **Network**
[TR21, BFM23, BSVM23, BZSF20, CCL21, CCL22, CCPS21, CCPS23,
Cha21, CX21, CCWX22b, Coa21, Coa22, DM21, DD22a, GLWZ22, GDLL22,
GDJ24, GWY21, GYC+23, HLL22, HXQL23, HJJL20, HBF21, KCWZ22,
LMS+22, LJH23, LHCK24, LLZ22, LLM20, LY22b, LT22b, LC22, LGL23b,
MLM+21, MHLR22, MX22, MK20, MRBC22, Mül23, NÅ21, QCZ22, SY21,
SMS23, VPL20, WRH20, WWFM22, WXZ22, WCZ22, WZ24a, XJL23, XF23,
XZRW21, XZWH22, YG24, YHC+22, YCC+22, YYL20, YL21b, YYD+22,
ZC22a, ZZZG23, ZYL+23b, ZHRB23, ZTK23]. **network-augmented**
[YG24]. **Networks**
[HTKT21, PZNK22, PZNK23, PJZ+23, RR21a, RHG22, UHZ+24, ALC24,
AHJ23, AF24, AK21, ACD23, Baj23, BS22b, BZ23, BP22, BTK22, BDMT22,
BX20, CWL+21, Cai22, CGL+23, CDX22, CHKL23, CG23, CFS23, CY21,
CDM+23, DDP20, DM23a, DCS23, DHR20, DN21, DW23, EL24, FGK22,
FFFY20, GCVI22, GSW21, GN22, GZ20, GDL23, GCSH22, GYWG23,

HNS20, HLZ20, HBG+21, HPKS23, HLXZ21, HXFD20, HA24, IL23, JKK20, JMAK22, JCLK21, JL23, KTBP20, KV20, KWS22, LCG22a, LYL20, LY22a, LWY23, LHA+21, LMK21, LAS22, MRHR20, MBN23, MBK21, MHQ24, MFK21, MN23, NCC21, PZ21, PMACG21, PDPK20, PZ22, PhSHK24, PGR+23, PMT+22, PHX23, PMSP23, PBVC22, PEL23, QZHD23, SRH21, SEG22, SJK21, SHJ+23, SWY+24, SZKY24, SFDW23, SGLP23, TBW22, TXH+21, TOB+24, WCC23, WX24a, WL24a, WKA+20, WL22, WWZZ24b].
networks
[XF21c, XSF23, XHD21, YMK21, YJP23, YNDH22, ZBYZ20, ZZZ22, ZCZ22, ZNCZ+21, ZLS22, ZZSL24, ZHH+24, ZMK24, dLF23, AM22, BBV23, JADS21].
Neumann [SYOS21, TNB21, AIN20, GR24, KBCH20, KD21b, LM21b, MMZZ22, SYOS19, TPB22, XC20]. **Neural** [AM22, BFM23, BPVE24, DD22a, DLM+23, GDL23, HTKT21, JADS21, LMS+22, LLZ22, MRBC22, MPIG23, NÅ21, ORCVG24, PZNK22, PZNK23, PJZ+23, RR21a, RHG22, TR21, UHZ+24, WZ24a, ALC24, AHJ23, AF24, AK21, ACD23, Baj23, BSVM23, BS22b, BZSF20, BZ23, BP22, BDMT22, CWL+21, CCL21, Cai22, CCL22, CORJ+23, Cha21, CCWX22b, CCGC23, CG23, CDM+23, DDP20, DM21, DM23a, DCS23, DHR20, DN21, DW23, EL24, FW24, FFFY20, GCVI22, GSW21, GLWZ22, GN22, GDJ24, GWY21, GCSH22, GYC+23, GYWG23, HNS20, HLZ20, HZX23, HPH+23, HBG+21, HLL22, HXFD20, HXQL23, HA24, HJJL20, HBF21, IL23, JKK20, JMAK22, JCLK21, JL23, KTBP20, KCWZ22, KGSK23, LCG22a, LJH23, LHCK24, LLM20, LY22b, LT22b, LY22a, LWY23, LDZ24, LC22, LGL23b, LHA+21, LBT+23, LMK21, LAS22, LHW+23, MRHR20, MLM+21, MHLR22, MKB24, MBN23]. **neural** [MK20, MBK21, MHQ24, MFK21, MN23, Mül23, NCC21, OPM22, PZ21, PMACG21, PDPK20, PZ22, PhSHK24, PMT+22, PHX23, PMSP23, QZHD23, QCZ22, SRH21, SEG22, SY21, SJK21, SHJ+23, SMS23, SWY+24, SZKY24, SFDW23, SGLP23, TBW22, TXH+21, WRH20, WXZ22, WCZ22, WYP22, WCC23, WX24a, WL24a, WL22, WWZZ24b, XF21c, XSF23, XF23, XHD21, XZRW21, XZWH22, YG24, YHC+22, YMK21, YJP23, YCC+22, YYL20, YYD+22, YNDH22, ZZZ22, ZCZ22, ZNCZ+21, ZC22a, ZLS22, ZZZG23, ZYL+23b, ZZSL24, ZHH+24, ZHRB23, ZTK23, ZMK24, dLF23].
Neural-network [LMS+22, MRBC22, MLM+21].
Neural-network-augmented [BFM23]. **neuron** [FL21, HLXZ21]. **neutral** [ÅAL+21, GRC+22, KSK21]. **neutron** [DJ22, DJ23, DC22a, GHY22a, Gar20, Gar21, HA21, KWMF22, LKEM21, TOB+24, ZG20]. **neutronics** [CS22].
neutronics-depletion [CS22]. **Neveu** [Lak20]. **Newton** [BE20, CQW24, CYYS22, GDB23, Lee21, LTT21, LCC+23b, hSMLS23, VdGP20].
Newtonian [CY22b, GDF21, HdB21, HKJ21, KAO+20, RRBR+23, SPF21].
NH [LLZ22]. **NH-PINN** [LLZ22]. **nine** [LDM+21]. **nine-dimensional** [LDM+21]. **Nitsche** [JDB+23, LT20b, WR23c]. **NKN** [YYD+22]. **NN** [BSA22, MFK21]. **No** [RS23b, GS22, IKP22, DCS23]. **no-slip** [GS22].
No-U-Turn [DCS23]. **Nodal**
[PBZ24, BWBT24, BWG+20, CCWX22b, DT20, MSC+20, MRK+20c, NW20,

NMR+21, NMR+22, PLKM22, RRHH+21, WVRLG23]. **nodal-gradients** [NW20]. **node** [KDL23]. **node-centered** [KDL23]. **nodes** [CS23, MGRRVR23, RRFK+21]. **Noether** [RN24]. **NoFAS** [WLS22]. **Noise** [EFSH21, ACDV24, AWB+20, CCM+22, CCHS20b, EK21, HHS22, HHSZ24, KP24, LWL+23, SQSS20, SSX22, ZL21c]. **noises** [ZXMK21]. **noisy** [BCSK21, JL22, KTDG22, LWR+24, LMZ23, LLR23, SE24, WF23, XZW21, YMK21, Yin22, ZL21d]. **Non** [AD20, BLLL23, BMG+23, DH24, HR23, HT20, dMKJ+22, JADS21, Jai22c, OA21, San20, SGT23, SM22, ARC22, AKK20, AMGCL21, AZ22, AAKW20, AWB+21, BDT21, BR22a, BBPR21, BGS22a, BSA22, BJL21, BG20c, BM24, CSCL20, CSM20, CZCY23, CSY23, CLPP24, CIMG21, DMRG22, Den23, DSZ20, DSBD24, DFP+21b, EPV21, EM20, EDLF20, EdLCCCO24, EPL21, FBG20, FCBM22, GLF23, GTDB22, GSOM23, GDB23, GCC21, HdB21, HRG+23, HJ22, HQ20, HX23, HXQL23, JZB+24, Jai22b, JTZ22, KAO+20, KMR23, KVQE21, LLSX23, Lee21, LP21, LLW20a, LCWJ20, LGMV22, LOL22, LF24b, LY20a, lLNZ21, Liu23, LWN24, LY22c, MDG20, MZC+22, MGT+21, NFA21, OBB22, PHHJ22, PCF21, PKC22, PZ24, PHX23, Per23, PGCC+22, Pop20, QH23, RWdBAG23, RHR20, RGLN22, RRG24, SSK20, SBL22, SBVM20, Sim23, STB+21, SSS22, TKK22]. **non** [TB23, TMG20, TSTH20, VGG23, WZW21, WY22b, WTZZ23, WKW+22, WLZ21, XLLH21, XMY22, XDLX21, XHY23, Yan23, YZH+23, YhCdJ+23, ZMQ24, ZXBS22, ZY20b, ZQC+23, ZDT23, ZTZX24, ZF20, ZSKN22, dSLdA+22]. **non-black-box** [LLSX23]. **non-canonical** [AKK20]. **non-colloidal** [KVQE21]. **non-conformal** [AMGCL21, XMY22]. **non-conforming** [Jai22c, LOL22, LWN24, WY22b, XHY23, ZSKN22]. **non-conforming-in-space** [ZMQ24]. **non-conservative** [RRG24, TSTH20, WKW+22, Yan23]. **non-cutoff** [HQ20]. **non-decomposing** [FCBM22]. **non-diffusive** [BM24]. **non-dissipative** [SBL22, TKK22]. **non-equilibrium** [CSCL20, EM20, JZB+24, JTZ22, PCF21, Sim23, YhCdJ+23, ZTZX24]. **non-flat** [ZDT23]. **non-Gaussian** [STB+21]. **non-gradient** [PHX23]. **non-homogeneous** [TB23, WZW21]. **non-hydrostatic** [EdLCCCO24, Lee21, LP21, Pop20, RWdBAG23]. **non-ideal** [OBB22]. **Non-intrusive** [BLLL23, DH24, HR23, JADS21, SM22, DFP+21b, HRG+23, PZ24, Poë23, VGG23, XLLH21]. **non-isothermal** [KMR23, WLZ21]. **non-iterative** [CZCY23, ZY20b]. **Non-linear** [Jai22c, AAKW20, BR22a, BBPR21, CLPP24, CIMG21, Den23, EPL21, Jai22b, LLW20a, MGT+21, PHHJ22, RHR20]. **Non-linearly** [San20, FBG20]. **Non-local** [HT20, BDT21, LY20a, lLNZ21, YZH+23]. **non-Markovian** [GCC21]. **Non-modal** [dMKJ+22]. **non-Newtonian** [HdB21, KAO+20]. **non-orthogonality** [HX23]. **non-oscillatory** [BSA22, GLF23, LCWJ20, SSK20, WTZZ23, XDLX21]. **non-overlapping** [BG20c, DMRG22, GTDB22, MDG20, SSS22]. **non-periodic** [EDLF20, Per23, TMG20]. **non-planar** [ZF20]. **non-polynomial** [CSY23, LF24b]. **non-reactive** [ARC22]. **non-realizability** [SBVM20].

non-rectangular [DSZ20]. **non-relativistic** [AZ22]. **non-shallow** [HXQL23]. **non-singular** [Liu23]. **non-smooth** [HJ22]. **non-spherical** [RGLN22, ZQC+23]. **Non-staggered** [SGT23]. **non-stationary** [EPV21, LY22c, QH23]. **Non-stiff** [AD20]. **non-subcycling** [ZXBS22]. **non-symmetric** [NFA21]. **non-thermal** [GDB23]. **Non-uniform** [BMG+23, AWB+21, CSM20, DSBD24, MZC+22, dSLdA+22]. **non-uniformly** [LGMV22]. **non-uniqueness** [BJL21, GSOM23]. **nonadiabatic** [HXZ23]. **nonautonomous** [LJ23, LT24]. **nonclassical** [BSA21, MBBV22, VMBS20]. **nonconforming** [XY20b, ZL21a, ZR24a]. **nonconservative** [ARR23, Don23, SGB+21b]. **nonequilibrium** [FCW21, LHW+23, WZX24]. **nonequispaced** [Per23]. **nonhydrostatic** [CLXS23]. **Nonintrusive** [FCBM22, KCP20]. **nonisothermal** [AHJ23]. **Nonlinear** [Ani21, Ben23, CD23, CYHY23, CSLC21, KWS22, KEML+24, LHL+22, Nor22a, Nor24a, SKP+21, SML20, ALC24, AFK+23, AF24, AST21, AZ22, AMM+20b, BF22, BZB20, BCP22, BE20, CSY21, CL20a, CQY21, CBQ21, Cha20, CNBH23, CM20, Che20, CWHZ21, CHOS21, CG23, CWW20, CTCS22, DDR22, DV20, DV21, DM23c, FLZ20, FCM20b, GLSZ22, GW23, GQR23, GQ22, HMV22, HDML23, HHS22, HL20a, HWY20, HLH21, HSW22, Iij21, JWC20, JW21, JTT23, JP23, JLY23, Kar22, KC20a, KGN22, KCCR22, KKSY21, LC20, LHCK24, LJ21, LFA21, LQXM22, LYS22a, LLZ23b, Liu23, LGYK24, LsCxL+20, MD20a, MKB24, MVK20, MCVF22, MY23, MYL21, MW22, MFdSS24, NPP24, NP23, NW22, OLP23, PPHO22, QH23, QCZ22, RB21, Sac22, STEK17, STEK22, SDKL21, SAL+20, SZKY24, TBW22, TT22a, TZ21, TCR+20, VLC+20, WWG20, Wan22]. **nonlinear** [WABK21, XBH+22, YSCM21, YX22, YSC23, YZK23, YWLL21, YZZZ22, YNDH22, ZQYS20, ZJZK20, ZX22, Zha22, ZZYX20, ZOG21b, ZIMA24, ZHH+24, ZTZX24, ZYY23, ZPS+21, dSdCdMC+24]. **nonlinearities** [KH21a]. **Nonlinearly** [CND22]. **Nonlocal** [ELL+23, PDPK20, YYD+22, ALFN22, ASSZ21, DZ22, DZ23, EL23, FTY+22, GLLM22, HZX23, HM21a, JPAZ21, KS21a, LCS22, LTD+22, NS22, VLC+20, WWZZ24a, ZWY21, ZZY+20]. **nonlocally** [KCK21]. **nonorthogonal** [HNF+21]. **nonparametric** [LWR+24]. **nonphysical** [CW21]. **nonrelativistic** [CY23]. **nonsmooth** [WZBV20]. **Nonstationary** [ADK+21, Vab23]. **nonuniform** [CSY20, lLTZ20, Xie22, ZOG21a]. **Nordheim** [MR23b]. **norm** [An21a, CN21, MZ20, YWClL22]. **normal** [BTCV22, CSM20, GHE+23, KLB23, MLM+21]. **normalized** [Wan22]. **Normalizing** [GWZ22, WLS22, HYCL23]. **note** [CMR21, MM20, PH21, Ran22, TNF23]. **Novel** [HP21a, HHSZ24, RHD+24, YZZ23, ÅAL+21, AKKM23, BCJ24, CZ20a, CA22b, DHM21a, DLWW22, DC22b, FLW20a, HHAFR21, HHLS22, JRD22, KSH22, LWY+20, LSC+20c, MS20b, NFA21, NZRH24, NZXM21, Par22, PM22a, PGS22, QZZ+24, RBPRST20, SBH21, SBVM20, SOBP22, TFWX22, TCW24, TWY+22b, TTP22, Yan21c, ZOG22, ZH23, ZSY21, ZLW22b]. **November**

[Ano20j, Ano20v, Ano21j, Ano21v, Ano22j, Ano22v, Ano23j, Ano23v]. **nozzle** [GPSMH20]. **nozzles** [JCM24]. **nPINNs** [PDPK20]. **NSFnets** [JCLK21]. **nuclear** [CDL+22, DJ22]. **nucleate** [TUCT24]. **null** [TCS22, TBD+20]. **null-collision** [TBD+20]. **number** [ADJ23, BDL+20, CSASS21, GMD22, HTL21, HCdM23, JP22, Kem23, Kem24, KSBG20, Liu20b, LSC+20c, MD20b, MAPS20, OCGT22, RHG22, SYAM23, WC23, YLW21, vNGB22]. **numbers** [BP21, sCpLL+22, CWX23, HZHL22, HXX22, KL20, LPL+22, MM21b, WGY+21, YFY22, ZLG+23]. **Numerical** [AFV20, AP22, AF23, BLF20, BBPR21, BSW24, BKMM24, BGSP22, BBMA23, BJL21, CCL22, CCPS21, CDT22b, CY22a, CKN22a, DS21, DZ23, GC20a, GHH24, GU20, HHK+23, HYSS22, JL21a, KAC22, Kem23, KNT22, KLZ23, Kus20, LSC20b, LCJ+20b, MZC+22, MYZ22, NSS23, NT23, NMGR21, OKTD21, PPV+21, PCD23, RB24, RKVV20, SGB+21a, SVW21, SLOZ21a, SNW23, Uil20, WR23b, WGH23, XGQ+23, YH22a, YK22, YL24b, YQO20, ZX20, ZOWW20, ZLC+20, ASG+23, AWP23, ALF+22, AK22, ABDD20, BBC21, BB23b, BEB+22, BL21a, BPG23, BWG+20, BW20, BD20b, BSZ+23, Bre20, BBL23, CHMP24, CCLL20, Cai21, CCWX22a, CPX22, CHT20, CS21a, CY22b, CCAR22, DC23, DNP23, DWZ20, DOQ23, DMC+23, DS23b, DTB20, EFS+20, EGTC+21, EdLCCCO24, FSWA22, FSWA23, FSB+20, FAA20, FBCD22, FH23, FP23, GHHR22, GdFP+24, GCDT22, GS23, GDB24]. **numerical** [GLY22, HRG+23, HLM+20, HYQ20, HLL23, HKRS23, HL20c, HLXZ21, HP22b, ITK24, JF20, JLRZ20, JRD22, KMS20, KKN20, KIHB21, KSK+24, KJB+24, KWDS22, KV23c, KLPR20, KD20, LLCJ23, LVK+22, Li21, LZ22b, LGL23a, LHPS24, LLS24a, LBM20, LFT+20, LMZ21b, LCWH23, LKG+20, MBDS23, MKHI20, MFTZ20, MSWH22, MTT+23, MHWY21, MBM+22, MBM+23, MP21, MR23b, NNL+20, NVPP23, Nic22, Nis20d, Oru21, PR20, PJR23, PGM22, PA20, PLM23a, PGMTP23, PGTS21, QWZ21, QXYZ23, QAS20, QERT20, Ran22, RKRW20, RB21, RWY21, SEG21a, SL22b, SB23, SS23, SGPW21, Sem21, SSPV20, SEG22, SS22a, SYY23, SAH+22, Suk23, TGM23, TUCT24, TAVD21, UD22, WTX+21, WH22b, WCP23, WS22, XLLH21, XHX22, XLT+20, YZdCNS21, YW22, YL24a, ZMQ24, dKSA21]. **numerical-flux-based** [HYQ20]. **numerically** [BZC+22, Gar20, LRT22a, LR24]. **numerics** [ZCH22]. **Nunziato** [CMRR21, LL21b]. **NURBS** [PD21, TMG20]. **NURBS-based** [TMG20, PD21]. **NVT** [ZYZ+23]. **NySALT** [LLTY23]. **Nyström** [CCH20, LLTY23]. **Nyström-type** [LLTY23].

Oberbeck [PKC22]. **Objective** [PSJ23, FSWA22, KKY22, WZSK22]. **objects** [LL20, LMUHR22, YK22, ZPW+23, ZZY21, ZL22]. **observability** [Bel24]. **observables** [LMR20, RK21]. **observation** [LSL20]. **observations** [CM20, Che20, CLGA24, HXFD20, WLZ+24b, XD22]. **observed** [WPBS22]. **Obstacle** [KTDG20, CGLZ23, DLL22, LW23, ZHRB23]. **obstacles** [LYZ22, YYL20]. **obtain** [TWF+20]. **obtaining** [CDJM21, HBF21]. **ocean**

[Hig20, LL24a]. **October**
[Ano20k, Ano20w, Ano21k, Ano21w, Ano22w, Ano23k, Ano23w, Ano22k].
Octree [EGTC+21, KML23, WSG+24, BWBT24, CW22b, HW23, KLS+20, KSI+23, KSK+24, LKM22, PBF24]. **Octree-based** [WSG+24, KSK+24].
octrees [SGPW21]. **Odd** [BTZ22]. **ODE** [HP23]. **ODENet** [HYZH22]. **off** [HBEK23]. **Ohta** [BCL+23]. **Oldroyd** [PC23]. **Oldroyd-B** [PC23].
On-the-fly [Qia22, ASVL23, WZ23a]. **once** [lLNZ21]. **One**
[IL23, LZ22b, AG21, AB24, BBGT21, CSW+24, CSS20, CJK24a, DC21, JHJ20, JPAZ21, KHS20, LCH20, LSC20b, LWR20, LZS22a, LLQ+23, LC23, MCBA20, PBCL20, PGMTP23, Ran22, Rei22, SBH21, SWM21, SSPV20, Sha23, SDA+21, SNW23, VT23, YNT20, ZCH22, ZT23, ZYD20, CLS20b].
one- [YNT20]. **one-dimension** [ZYD20]. **One-dimensional**
[IL23, AG21, CSS20, CJK24a, JPAZ21, LWR20, LZS22a, LC23, MCBA20, PGMTP23, SBH21, SWM21, SDA+21, ZCH22, CLS20b]. **one-domain** [VT23]. **one-fluid** [DC21, Rei22]. **one-parameter** [Ran22]. **one-phase** [KHS20]. **One-sided** [LZ22b, BBGT21]. **one-stage** [LLQ+23]. **one-way** [JHJ20, ZT23]. **online** [DEB21, SP23]. **Ono** [RWY21]. **Onset** [SSS22]. **Oono** [ZLQS24]. **open** [BDB21, CSM20, CS21b, KRG+23, LY20b, WYHL21].
OpenFOAM [OLP23, Sar21a, TGS+22]. **opening** [KSST21, WBN21].
Operator [LLCJ23, ÅAL+21, AMW22, BCJM20, BDHO24, BGSP22, BTKP24, CWL+21, CORJ+23, CC22b, DLM+23, HZX23, HPH+23, HPKS23, HZ22a, IK23a, JL23, Kho20, LLSX23, LJH23, LST24, LJ21, LWW21, LW23, LXCZ24, LHW+23, MHA23, MTW23, MHQ24, MRG21, PDPK20, PGS22, XF23, XG22, ZWY21, ZZSL24, ZZH22, dSLdA+22, ORCVG24].
operator-split [MTW23]. **operator-splitting** [MHA23]. **operator/finite** [HPH+23]. **operators**
[BFM21, BDP23b, CL20a, CMR21, CW23, CS22, DNO23, Edo24, FFFY20, FFY21, GTWJ24, GKNÖ23, GKNÖ24, HM21a, KGSK23, MLM+21, MZ20, MKB24, MR23a, MOMS24, MRBC22, Ran23, SAM23, WZ21a]. **opPINN** [LJH23]. **Optical** [VCCN+23, CSM20, CS21b, FCGKR23]. **optics** [HKRS23, MKB24, vGAtTBI23, vGAtTBI24]. **Optimal**
[AGR23, BJW20, CHG21, KBCH20, LW21, LM21b, LCC+23b, MKB24, MN23, NYZ21, TBG20, VLV20, AAH+20, BBO+22, BCM24, BS21, CM20, CD23, CHM24, CDW23, FCP21, FVM22, FVM23, FLOL23, HT21a, HKKS21, ID20, IT22, KUO23, KSW22, LGV20, LLLO21, Lév22, MHA23, MDG20, ND23, RE20, SYY23, Yan21a, Tur24]. **optimally** [JJ21].
optimisation [GN23a]. **optimised** [DMC+23]. **Optimization**
[AIN20, GWC+22, LPM23, MZ20, SMS23, WK20, AMG23a, AP23, ABBG23, ACML20a, ACML20b, BGS22a, BPBM23, BS21, BLWL22, CEW23, CSY21, CDK+23, CGL+23, CHG+20, CBA+20, CF22, CHM24, CSdP+22, DLZZ21, DGGL22, DZL+22, DAJ22, DFJ20, DMK+24, ELWY24, EFSH21, FSWA22, FSWA23, FADJ20, FFGRLS+20, FLW+23, FLS23, GCMV23, GDAP20, GMNY23, GLL20, HBEK23, HF23, HTV+22, JLXZ24, KKN20, KKY22, KNS21, KKY+21, LCPW23, LZLZ21, LFZ21, MMLL+24, MQ20, MZ23,

MRT+22, NSS23, Qia22, VRK+21b, WQ20, WSG+24, WZ23a, XMZ+23, YXL22, ZSP20, ZNK23, ZOG22, ZDS+21, ZWR24, ZXD22]. **optimization-based** [MMLL+24, MZ23, ZSP20, ZNK23]. **optimizations** [EAK20]. **Optimized** [CAG20, MLCM22, Ale23, DBD21, FBG20, GHY22a, HSH20, LSZ+23a, MYM+21, RWH+24, RMN+24, SAM23, ZPK22]. **options** [Kem24]. **optoelectronic** [ACML20a, ACML20b]. **orbit** [KCCR22, RC20a, VCPGR20]. **orbit-averaging** [VCPGR20]. **orbital** [DLZZ21]. **orbital-updating** [DLZZ21]. **orbits** [AKK20, SJGC21]. **Order** [CSY23, ARTB20, ADK+21, Abg20, ASG+23, AuIL20, ASKH21, ADP22, AMW22, AP20, ASVL23, AZV23, AMM+20b, AAKW20, ATS24, AKKM23, BAT23, BGFB20, BBH+20, BGH20, BF22, BFM23, BRT22, BVR22, BW23, BMBM24, BBH23, BSA22, BKC23, BG20a, BKMM24, BD20a, BDL+20, BP21, BDP23b, BL22b, BL21b, BBW+21, CBQ21, CCWX22a, CC24, CDK+23, Cam21, CPX21, CPX22, CFS+22, CMP+21, CZZ21, CF21, CBF22, Cha23, Cha20, CSW+24, CZ20a, CWHZ21, CKT21, CY22b, CL23a, CWX23, CD23, CDLX23, CSS20, CLJ+20, CLS24a, CCCH23, CPGD21, CBA+20, CBA+21, CBY23, CKN22b, CP20, CND22, CDN+22, CLP21, CLPP24, CGM+23, CX22a, CCB22, CCdS20, CMRR21, CS22, CNCM21, CA22b, CLS24b, CCLM22, DHM21a, DCA+22, DVS22, DS22a, Den23, DC21, DD22b, DD21, DHR20, DJ22, DJ23, DY22b, DYGC22]. **order** [DY22c, DY22d, DL24, DYZ24, DT20, DT21b, DT22c, DH24, DFGR20, DZGP24, DK21, DFP+21b, DGW22, DWM23, EDEV23, EAK20, EPL21, FPT20, FZQ21, FZQ22a, FMWK20, FHWK21, FZ20a, FZ20b, FGKY22, FGTY23, FHM24, FML21, FX22, FLOL23, FOL23, FL23b, GvR24, GBC+20, GM23a, GLSZ22, GDLL22, Gao22, GLF23, GCDT22, GS23, GA20, GU20, GQR21, GQR23, Gla21, GDB23, GZW20b, GFY20, GLCS23, GGH+23, GPS20, GLY20, GCL+22, Hac21, HMV22, HRG+23, HR23, HEG23, HRRHG21, HSMR20, HGB20, HKRS23, HHRA19, HL20a, HCL20, HPPZ20, HLY20, HSW22, HRWP22, HXX22, HLA22b, HZ22b, HNZ23b, HJQ+23, HD23, HYH24, HTRC23, dMKJ+22, IMJ20, IW23, ISM+23, JADS21, JYY22, JZSX20, JRD22, KSTT22, KCS21, KV23a, KS22c, KS22b, KS23, Kar22, KBB21, KCWZ22, KLN20, KL22, KS24a, KLF22, KdMJ+22, KJdM+22, KF23, KCCJ21, KKSY21]. **order** [KLB23, KB23, KD20, KK21, KdL20, KV23d, LCL22a, LJW+22, LBN21, LVK+22, LMS23, LL21a, LL23a, LCS22, LCS23, LCS24, LD20a, LCJ20a, Li20, LCSZ21, LLQC21, LG21, LYZW21, LZ22a, LCR22, LJ23, LSZ23b, LLZ23a, LLQ+23, LWL+23, LXSF22, LH20, lLTZ20, LRAQ22, LWZ23, LC24, LZ24b, LRW21b, LM20a, LS23, LSZY20, LD20b, LFZ21, LYS+22b, LWYY22, LSY+23, LJS+23, LZ23, LCWH23, LLOL24, LsCxL+20, LT20c, LN24, LY22c, LZCC22, MZ22, MLL+24, MLPR24, MST24, MCGN24, Mar23, MCVF22, MHW21, MHW22, MQ20, MKM23, MM24, Mis23, MGA20, Mon21, MCI23, NS22, NFL+21a, NFL+21b, NZ24, NKT21, NPD20, NT20, NBR22, NP23, Nic22, NGK+21, NKW22, Nis20c, Nis22b, NW23, Oru21, OA21, OGG20, PZX20, Pan20a, PCF21, PP22b, PWbCJ24, PWL+23, Pan20b, PPP21,

PBN+21, PB20b, PM21b, PS22b, PH22, PTT22, PTT24, PSCK23, PD21]. **order** [PMH24, PGCC+22, PGMTP23, PGTS21, PPB23, PGC24, QG21, QZHD23, QLY21, RMA20, RUG20, RSWD21, RFZ22, RZ23, RWQX23, Ren21, RLH22, RRBR+23, RBF+21, RIC+22, RCSS24, RA23, RMWS21, SZN19, SZN20, SMSAGG22, San20, Say22, SL20b, SL22b, SEG21b, SEG22, SRV21, SWF21, SBL22, SAP22, SY21, SKCM22, SS22c, SZ21, TFWX22, TCS22, TJC21, TJM23, TPK20, Toh23, TEA+23, TSM24, Uil20, Unf21, UY22, VVL21, VVRWT21, VPDD22, VOL23, VBA22, VK22, WW20a, WMTQ20, WGY20, WW20b, WRH20, WCL+20, WTX+21, WLH21, WCF22, WTZZ23, WCP23, WLZ+24b, WABK21, WZBV20, WWLZ21, WHS22, XBH+22, XLLH21, XY20a, XGCW+20, XDLX21, XH24, XSSS22, XBRL21, XS22a, XS22b, XHLH23, XM20, YU22, YYX21, YSCM21, Yan21c, YZSD21, YJSX22, YYLY22, YH22a, YZZ23, YPX24, YKH24, YOH+20, Yin21, YK20b, YGL20, YH22b, YM20, ZSP20, ZEG20, ZEG21]. **order** [ZB21b, ZWY21, ZCY23, ZCQ19, ZCQ20a, ZML20, ZL21a, ZL21b, ZHY22, ZX22, ZLW+22a, ZC23, ZZ23b, ZDT23, ZZ24, ZHR20, ZZZ20, ZH21, ZJSX22, ZJSX23, ZZ23c, ZGX24, ZCY24, ZSQ21, ZTZX24, ZWQG23, ZQS+21, ZQL+22, ZQS20, ZS20, ZF20, ZL22, aZWY23, ZWB21, dLF23, vHP22, vLN21, Der23, NV22]. **order-adaptive** [CMP+21]. **order/low** [PM21b]. **ordinary** [GHNS21, GLT+20, JLY23, LWR+24, LBT+23, OPM22]. **ordinate** [PM23]. **ordinates** [BO22, KSK21, MBBV22]. **orientation** [LFP+21]. **oriented** [AF21, AN21b, FC21, FRW+24, GDAP20, JO22, LRVF22]. **orography** [YWCB22]. **Orthogonal** [JADS21, ADK+21, BHP24, CP22b, DV20, GCP24, KCCJ21, LL23a, MSWH22, NS23, NR23, ZMG+22]. **orthogonal/bi** [ZMG+22]. **orthogonality** [HX23]. **orthonormality** [WCKS24]. **orthonormality-preserving** [WCKS24]. **oscillating** [ACR23, Vre20, Vre21b]. **Oscillation** [PLKM22, ZZL24]. **Oscillation-free** [PLKM22, ZZL24]. **oscillations** [DHR20, MQ20, SRH21, SKTK21, XLS22]. **oscillators** [WF23]. **oscillatory** [BSA22, CEMO21, CLC24a, GLF23, Gao24, GHH24, GHNS21, LCWJ20, LLZ23a, MHW21, SSK20, WTZZ23, XDLX21]. **OSG** [CW23]. **OSRC** [van22]. **Ostwald** [MX22]. **other** [EdLCCCO24, JRY+20, TPPA22]. **outflow** [LYL20]. **outlet** [HP21a, HPS23]. **outliers** [ZL21c]. **output** [BS21, GJF20]. **output-weighted** [BS21]. **outputs** [KNP20, ZMQ24]. **over-parameterization** [KGSK23]. **overburden** [ZC22b, ZC22c]. **overcome** [SBVM20]. **Overcoming** [LLS20]. **overhang** [MQ20]. **Overlapping** [LGYK24, BG20c, DMRG22, DGS20, GTDB22, MDG20, MDF21, SSS22]. **Overset** [LL20, SAS+21, BHNS23, BCIT22, HM21b, KR23, KNG22, KGN22, LW22a, Vre17, Vre20, Vre21b, Vre21a]. **overview** [DM23c].

p [NMR+21]. **p-adaptive** [NMR+21]. **paced** [GYZ21]. **packed** [KKM21]. **packet** [JLRZ20]. **packets** [EGN23]. **pair** [VLV20]. **Paired** [NV22, Ver23]. **pairing** [DFW22]. **paper** [Pan20b]. **papers** [DSA23]. **Parabolic** [RV22, AFV20, BBPR21, CHM24, CPA+23, GN20, GEvWD22, HVD23,

HKMR20, JLQY21, KBB21, LH21, MVK20, MMPD21, OWHN22, PA20, PGC24, SSMA21, WZZ23, ZCZ22, ZC22a, ZX22, ZLL23]. **paradigm** [DhJV+22]. **Parallel** [AFL22, BDS23, CYS22, CSdP+22, DS22a, HSM20, KKL+23, LYL20, LYY20, LR22, OSZ21, SJK21, SdSPS24, TTSP21, WZ21b, WK21b, YYM+22, AFS+23, AAH+20, ARGK22, ARB+21, BZC+22, CEMO21, CPX22, CYHY23, DLZZ21, DGL+22, EGTC+21, FVM22, FADJ20, FH23, GNF22, GW20, JGM+22, JDB+23, KLS+20, LZC+20, lLNZ21, LMUHR22, MYL21, MHY20, MRdB21, QCWC23, RMA20, RAZA21, SAL+20, SES21, SMW+22, Suk23, SSS22, SBVW20, TZNHD20, TSP22, TEA+23, VRAM21, WGY20, WY22b, XMY22, ZXBS22, ZLC+20, ZO21]. **parallel-friendly** [BZC+22]. **Parallel-in-time** [CSdP+22, HSM20, LR22, SdSPS24, CYHY23, FVM22, GW20, lLNZ21, SES21]. **parallelism** [RA21]. **parallelization** [DFG+23]. **Parallelized** [MVK20, BB23a, HZTN21, MD20a]. **Parameter** [BHK+22, BTT24, BGH21, HSH20, JO22, JJ21, LT20a, LT23, POS+20, Ran22, RSA+22, WPBS22, Xu24, ZHL21]. **parameter-free** [JJ21, Xu24]. **Parameter-robust** [BHK+22]. **parameterization** [HWZ24, KGSK23]. **parameterized** [ABY23, BTT24, CDX22, FTZ22, GSW21, GLSZ22, IT22, LC23, PZNK23]. **parameters** [AP21, ABDD20, BCPV21, CCWX22a, DWWZ21, GCMV23, LSL20, LZ20b, MNG+22, PK23, VLC+20, XLLH21]. **Parametric** [HCF+23, HTRC23, LZ24a, TGS+22, YZSD21, AK21, BGNZ22, BVR22, BBH23, CJW22, DW23, HR23, JL23, LB21, LMZ23, MLCM22, ORCVG24, OA21, RA23, SBCL24, VAK+23, VK24, WRH20, WP23, ZXMK21]. **Parametrically** [ZOG21a, BLWL22]. **parametrizations** [TSSOA20]. **parametrized** [DDP20, DH24, HRG+23, HNZ23b, PDPK20, PMH24, RRBR+23]. **Parareal** [BM24, GHNS21, LH21, NT20, SdSPS24]. **parareal-like** [NT20]. **paraxial** [AF23, JCM24]. **parcel** [MZC+22]. **part** [ZPGR22, BWG+20, CEL+20, CKLM+23, CJK24b, CJK24a, CBRY21a, CBRY21b, DBT+20, Den23, KNP20, LQX22b, LQX22a, RRHH+21, SGT23, SLOZ21b, SLOZ21a, vL24]. **Partial** [Lév22, AAMPR24, BM21, CDK+23, CM20, Che20, CCWX22b, CDX22, CS24a, CCXX23, DM21, EL24, GLSZ22, GW23, GMA23, GW20, GYZ21, HNS20, HDML23, HHLS22, JLY22, JL23, JLY23, JLLY24, KB24, KTBP20, KCD+23, LZCC22, MB21, MZ23, NPP24, OWHN22, PB20b, PHX23, SX20, TL20, TWY23, TZ24, TBST20, VBB+23, WX20, XZW21, YGL20, ZBYZ20, ZZZ22, ZCZ22, ZZZG23]. **Partially** [DGW22, CELV21, CELV22, PAA21, PLX24, RR21a, WPBS22]. **Partially-averaged** [DGW22]. **Particle** [BZC+22, FQSW23, HP21a, KEY20, LZPM22, LFL+22, MPZ24, MVO+22, RA21, STC+21, TCA21, Ale23, AWP23, ALF+22, AFF+23, AF23, BLL19, BLL20, BOB21b, BOB21a, BFS23, BBW+21, BTL23, BPT+20, BFG23, CLB23, CCY+20, CCN21, CC23, CW22b, CI21a, CKN22a, CCAR22, CBCF20, CFGJ23, DES23, DFJ22, DSS20, Ere22, EASA23, EFSH21, FCM+20a,

FJG+20, FZLL20, FJ21, FHJ22, FCTZ24, FGZ20, FFL+23, FR23, GQF23, GLF23, HHL20, HL22b, HPRW20, HW20a, JKZS21, JRY+20, JCM24, JLL20, KP24, KS21c, KCCR22, KSK21, KVQE21, Kus20, LCPW23, LLZ+20a, LDLW21, LAT+22, LLF23, LXY23a, Li23, LLS24b, LZX20, LMZ21b, LMG+21, LMZ+21a, LKG+20, LMHL21, LKJL22, MKHI20, MSK+22, MOMS24, MPZ23, MZC+22, MRBS22, MRdB21, OB20, OYK+22, PEA20, PA21, PWK20, PM22a, Puk20, RSWD21, RR22, RC20a, RE20, SH23b]. **particle** [SPdF20, SGPW21, SSS20, SBJ+23, SCL20, SDA+21, SC22d, TACO22, TZM+20, TRC22, WXZ22, WF23, WZX24, WK23, WBH+24, XLT+20, XCL+21, YKLL21, YRHN22, YLLG24, YJP23, ZRH20, ZQC+23, ZZZH23, ZAA23, BDWC23, DFG+23, EC20, GHS22, LPH+24, PTZ+24]. **particle-based** [EFSH21]. **particle-grid** [YLLG24]. **Particle-in-Cell** [STC+21, ALF+22, BBW+21, CCY+20, CCN21, CC23, CKN22a, CBCF20, Ere22, FCM+20a, HHL20, HL22b, HPRW20, JCM24, KS21c, LAT+22, LXY23a, Li23, LKG+20, SCL20, SC22d, TCA21, TZM+20, TRC22, WBH+24, DFG+23, LPH+24, PTZ+24, EC20, GHS22]. **particle-laden** [CW22b, EASA23, FJG+20, PA21, RR22, RE20, SGPW21]. **Particle-Mesh** [BDWC23]. **particle-resolved** [CW22b]. **particles** [BT24, CMS+22a, DHM21b, HPW21b, Ish22, KG20, KDB+20, KCK21, LT22a, LDM+21, LZX+22b, RPA22, RGLN22, SGM21, SLBH23, SK23a, SWHJ22, SDA+21, Ume23, WLH21, WDK22, YLLG24]. **particles-in-cell** [HPW21b]. **particulate** [OLP23, OYK+22, YCM+20]. **partition** [BSVL24, KP24]. **partitioned** [ASS21, BFST23, HPPZ20, LOL22, NAZ22, ZAA23]. **Parts** [LNF20, ÅAL+21, CT22, DFW22, GN20, GKNÖ23, GKNÖ24, LLN22, LWN24, MRK+20b, MRK+20c, MZ20, MR23a, PBN+21, Ran23, RRG24, SGT23, SAM23, WZ21a, WZ24b]. **Pascal** [Oru21]. **Pass** [DJID20]. **Pass-efficient** [DJID20]. **passage** [GKA22, KAC22, ZXMK21]. **passive** [MNG+22, STWK21]. **past** [ACR23]. **patch** [FBCD22]. **patched** [YG21]. **patches** [BG20c]. **Path** [JH23, CKLZ23, CNMB20, CKN22b, DZC+23, KLX23, LLZ20b, PGCC+22, XGQ+23, XDCF21, YR22, ZXMK21]. **Path-conservative** [JH23, CKLZ23, CKN22b, KLX23, PGCC+22]. **paths** [LTDC23]. **patient** [LC23, QCWC23]. **patient-specific** [LC23, QCWC23]. **Patlak** [HS23]. **pattern** [CLC24b, TZM+20, ZBB21]. **patterns** [LLS24a]. **PDE** [BBH23, DSBD24, DW23, FVM22, FVM23, GZ20, GKA22, HWZ24, LLSX23, MK20, PMACG21, SMF20, SMS23, Ste22, SE24, WL22, XCZ20, YMK21]. **PDE-constrained** [FVM22, FVM23, SMS23]. **PDEs** [AXWF23, BTT24, CCLL20, CS20, CCL22, CEMO21, CJ21, CHOS21, CA22a, DDP20, DV20, DV21, DY22b, DE22, GSW21, GC23, HVD23, KEML+24, LSS20, LZY22a, LY22a, LXZ23, LMZ23, LN21b, MVK20, MY23, MM23, MRZ21, MN23, PZNK23, PMH24, QZHD23, QCZ22, RR21a, RV20, SHJ+23, SE24, TTY22, TB21, VAK+23, WZ24a, WD23, Xia23, XCZ20, YJH23, ZL21d, ZC22a, ZLS22, ZMG+22, ZY24]. **PDF** [PJW21]. **PEC**

[ZL22]. **pEDFM** [RHD+24]. **penalised** [HVB21]. **penalization** [KdMJ+22, KJdM+22, KF23, MPBG23, SYOS19, SYOS21, TNB21, TPB22]. **penalization/selective** [KF23]. **penalized** [TKGB23]. **penalties** [AD20]. **Penalty** [FCL21, SCdHJ20, HNZ23a, KMF23, SY21, aZWY23]. **penalty-free** [SY21]. **Peng** [FCWS22, LYY20]. **pentadiagonal** [WK24b]. **percolation** [CY21]. **Peregrine** [KMS20]. **perfect** [LL23a, XYL22]. **Perfectly** [DZ22, MBAG21, DZ23, KLP22, LZS22b, MF24, USRH20, XHLH23]. **Performance** [PV22, PO23, ADP22, KSW22, KD20, RBD+21, YJSX22]. **performing** [FTPB23]. **perfusion** [DFP+21a, KSHJ20]. **peridynamic** [ZHPZ21, ZLB22]. **Peridynamics** [BM21, KAO+20, KBG23, PJA22]. **perimeter** [JL21b]. **perimeter-decreasing** [JL21b]. **Periodic** [AFP22, BZ21, ZPGR22, BFS23, BFL20, CEW23, CHN24, CHM24, DG23, DN21, EDLF20, GDAP20, GXY24, GLT+20, HL20b, LPS21, LHC22, LZLZ21, MBE21, MD20c, PR24, PAGJ23, Per23, PLM23a, RHG22, SWM21, SJGC21, TMG20, WNB21, WZ23b, WC23, XL24]. **periodically** [LNYD20]. **periodicity** [BT23]. **permanents** [LM22]. **Permeability** [WCA+20, AT20, KNLB21, XY20b, YZK20]. **permeable** [QHZ+22, WKKB21]. **perspective** [WYP22]. **perturbation** [ACD23, GCVI22, Liu23]. **perturbations** [AHG21, CHN24, DS23c]. **perturbative** [PLM+23b]. **perturbed** [CZ22a, CHT20, GHNS21, YZZ23, ZG21]. **Peshkov** [MMM23]. **petroleum** [TH23, dSLdA+22]. **Petrov** [LTD+22, WTX+21, ZR24a]. **PFNN** [SY21]. **Phase** [CY21, HHAFR21, HLA20c, HLA22b, HJ23, VPL20, Abg20, Aca24, AdDMT21, ASKH21, BL22a, BBV23, BDTU24, BDMP22, BSV22, BDB21, BMQ20, BDMT22, BE20, BR22b, Cal21, CSCL20, CZHY20, CY22b, Che23b, CDX+21, CK21, CLP22, CMRR21, DC21, DLYZ23, DLY22, EAA+22, FQSW23, FMS21, FZ23, Fu20, FY22, FS21, GJLD20, GNZ23, GDBFN+20, GdFP+24, GQS20, GNF22, GPSMH20, GCL+22, HZHL22, HKS20, HCL22, HJH+21, HGZ23, HHRA19, HNZ23a, HT21b, HLA20b, HLA21, HLA22a, HJ24a, HJ24b, IKP22, JMM20, Jai22a, JM22, JM23, JHT23, JTK22, JTT23, JLXZ24, JGR22, KS21a, KLS+20, KSW22, KHS20, KWDS22, LZT+23, LHC22, LL21b, LOL20, LLW20a, LDM+21, LYS22a, LLPL22, LNC+21, LRT+22b, LTBM23, LCP23, LYH23, LLCK20, MXL+24, MMZR21, MJJ21, MJ23, MA21, MCBA20, MIM20, MM21c, MM22, MKM23, MM24, MYY+23, MRL+23, MD22]. **phase** [PM21a, Pan20b, PAA23, PPHO22, QWZW23, QERT20, QHZ+22, QW22, QLMR24, RHD+24, RMJ23, RZH20, RSSK24, RSA+20, SCB20, SHM+23a, SRTB21, SRD20, SHL+20, SWHJ22, SFP+20, SDA+21, TWY22a, TH23, UBT22, VSS21, WLW+20, WZCK21, WZ22, WCZ22, WJHS23, WLKR23, WLZ24a, WA23, XJL23, XS20, XZRW21, XHZ22, XHY23, XDCF21, Yan21b, Yan21c, YA21, YTK22, YH22a, YK22, YLK23, YR22, YJK24, YZK20, YXL22, YQO20, ZEG20, ZXBS22, ZLG+23, ZY20b, ZMWS22, ZW22, ZSsC+22, ZWLG23, ZYZ+23, ZYL+23b, ZS24, ZWN24, ZSY24, ZR20, ZMTZ24, ZCY24, ZKY+20, ZF20, ZGK+22, ZOEL20, dSdCdMC+24,

dSLdA+22, vdEW23, HLA22a]. **Phase-change** [HHAFR21, LYH23]. **phase-changing** [SCB20]. **Phase-Field** [HLA20c, HLA22b, HJ23, VPL20, Abg20, Fu20, FY22, GNF22, HHAFR21, HGZ23, HNZ23a, HJ24a, HJ24b, Jai22a, JTK22, JLXZ24, KSW22, LNC+21, LRT+22b, MJJ21, MJ23, QW22, RMJ23, SHM+23a, SHL+20, TWY22a, WZCK21, WLZ24a, XHZ22, Yan21b, Yan21c, YTK22, YK22, ZY20b, ZSsC+22, ZWN24, ZCY24, ZKY+20, HLA22a]. **phase-flows** [BDTU24]. **phase-space** [PPHO22]. **phaseless** [YYL20]. **phases** [SDA+21]. **PHCDM** [ZOG21a]. **phenomena** [Abg20, BBMA23, GFPO22, KSK+24, LT20c, ZWY+23]. **phenomenon** [CPD+24, CS21b, RS20c]. **phonon** [LZY+22b]. **phononic** [CMSS21, FGD+21, ZZY+20]. **photoacoustic** [RB22]. **photon** [Ani21, LLZ+20a]. **photonic** [WL24b]. **photonics** [CE21, PV20, Poë22]. **photons** [FCY+20]. **photovoltaic** [ACML20a, ACML20b]. **PhyGeoNet** [GSW21]. **Phys** [Abg20, ACML20a, BLL20, EFO20, GRT21, HPA22, LMFV22a, MM22, SZN20, SYOS21, STEK22, SS22b, Vre21b, Vre21a, YGJ21a, ZCQ20a, ZC22b]. **Physical** [CG23, AB23, Ben23, CQW24, CW22a, EdLCCCO24, GQS20, Gin21, JLLY24, KK20a, KS22d, LLM20, RK21, ZC23]. **physical-constraint-preserving** [CQW24, CW22a, ZC23]. **Physically** [MGT+21, GJF20, KTDG22, RWH+24]. **physically-informed** [KTDG22]. **Physics** [AB23, BS22b, BP22, Cai22, CWHZ21, CDM+23, DCA+22, GSW21, HBBN24, JMAK22, JCLK21, KM22b, LJH23, LT22b, LMK21, NSS24, PDM23, Pan20b, PZ22, QZHD23, RR21a, RRL+23, SC23, SGLP23, TBSH21, TZ24, TC23, XD22, ZZW24b, ZZK20, Ale23, AFK+23, AHJ23, AK21, ACD23, BSA21, BT22, Cha21, CZ23, CS24a, DJ22, Dup21, GN22, GZ20, GDB23, GCC21, GDL23, GYC+23, GWZ22, GYWG23, HTKT21, HCF+23, HPKS23, HXQL23, HA24, HP21b, IL23, JKK20, KRG+23, KH21a, KCWZ22, LST24, LLZ22, LO23, LWY23, LC22, LMHL21, LAS22, MBN23, MYM+22, MN20, MN23, OPM22, ODM23, PMACG21, PDPK20, PR23, PMT+22, PMSP23, RHG22, SKP+21, SLF23b, SJK21, SWY+24, SZKY24, TBW22, THH22, WCM+21, WP23, WZ24a, WWZZ24b, YMK21, YNDH22, ZZML20, ZZZG23, ZYL+23b, ZHH+24, ZMK24, PZNK22, PZNK23, PJZ+23]. **Physics-** [HBBN24]. **physics-aware** [PMACG21]. **Physics-based** [PDM23, RR21a, GDB23, KRG+23, LO23, PR23, SKP+21]. **physics-constrained** [GZ20]. **Physics-informed** [AB23, BP22, Cai22, CWHZ21, CDM+23, DCA+22, GSW21, JMAK22, JCLK21, KM22b, LJH23, LT22b, LMK21, NSS24, PZ22, QZHD23, RRL+23, SC23, TBSH21, TZ24, ZZK20, Ale23, AFK+23, AHJ23, AK21, ACD23, BSA21, BT22, CS24a, GN22, GDL23, GYC+23, GWZ22, GYWG23, HCF+23, HPKS23, HXQL23, HA24, IL23, JKK20, KH21a, KCWZ22, LST24, LLZ22, LWY23, LC22, LAS22, MBN23, MN23, OPM22, ODM23, PDPK20, PMT+22, RHG22, SLF23b, SJK21, SWY+24, SZKY24, TBW22, WCM+21, WP23, WZ24a, WWZZ24b, YMK21, ZZZG23, ZYL+23b, ZHH+24, ZMK24, PZNK22, PZNK23, PJZ+23].

physics-optimized [Ale23]. **PhySR** [RRL+23]. **Pi** [ODM23]. **PIC** [Bar22, BD20b, Gon24, PP22c, SS22a, SC22b, TZM+20, XLT+20]. **piece** [RGSR21]. **piece-wise** [RGSR21]. **Piecewise** [BSP21, TJC21]. **piezoelectric** [FGD+21]. **PIMC** [DZC+23]. **PINN** [HBEK23, HXQL23, LLZ22, LWZ22, LLY+23, PKK22, TLHL23, WZ24a, YNDH22]. **pinning** [PJR23]. **PINNs** [PZNK22, PZNK23, PJZ+23, ZMK24, TWY23, WYP22, YMK21]. **pipeline** [BGR20]. **pipelines** [ZSZ23]. **Pitaevskii** [AST21, BSZ+23, HSW21]. **pitch** [FZQ22b]. **pitch-angle** [FZQ22b]. **Pitfalls** [vLN21, Nis23]. **pitting** [GJLD20]. **pixel** [FML21]. **pixel-exact** [FML21]. **planar** [DHM21b, ZF20]. **Planck** [KJ24, LJH23, LRW21a, NGK+21, QWZ21, RHC+24, ZWS+24, AC23, BSW24, BF24, CXZ24, CH22, FN22, GT21, HGH20, HLXZ21, HJJL20, KKJ21, Le21a, LWYY22, LM23b, LWX24, MPZ24, QXYZ23, RAB23, RB24, SH23b, SS22a, SMAY22, TWL22, XC23a, YFLL21]. **plane** [BBDT21, CDL21, DHMT21, FPT23, GJL20, GNW22, Sha23]. **plane-wave** [BBDT21, CDL21]. **planes** [GD21, Sha23]. **Plank** [ZGLL20]. **planning** [FLOL23]. **plaque** [FH23]. **Plasma** [CHS20, BKC23, BMG+23, CHDB23, CB23, CBCF20, CFGJ23, CIMG21, CMS+22b, DS23a, EFR21, EFSH21, FGB+20, GRC+22, GDB23, GT23, HHL20, HL22b, HSB20, KC20b, KFP+22, LSC20b, LRW21a, Li23, LHPS24, LPH+24, LCC+23a, MAP+20, NNL+20, NKT21, NWM21, DAGL23, PLX24, Puk20, SH23b, SEG21a, SWM21, LF24a, SC22b, SZ21, TCA21, TM23, VSB+21, VSB+22, XF21b, ZWS+24]. **plasma-based** [Puk20]. **Plasma-material** [CHS20, LCC+23a]. **plasmas** [AFF+23, CC23, Ere22, FR23, FZQ22b, HSK+21, Heu21, HABG23, LPM+20, MPZ23, SvDtTB21, SW22]. **plasmon** [DLZ23]. **plasmonic** [DHM21b, LPM23]. **plasmonics** [Suk23]. **plastic** [CLJ+20, JAW+23, LZS22b, LGL23a, hSMLS23]. **plasticity** [DL21]. **plate** [BNN20, Kar22]. **plates** [BGNY22, TAWD23, YL24b]. **platform** [YCM+20]. **plating** [FSW22]. **plume** [CB23]. **PML** [AZ22, BDT21, HCL20, HYH24, LZ22a]. **pneumatic** [LRW21b]. **PNP** [XC20]. **POD** [ARR21, FRW+24, GQR21, HSMR20, PR23, SFGNMGN22, SPGG23, WRH20]. **POD-based** [FRW+24, SFGNMGN22]. **POD-Galerkin** [WRH20]. **PODFS** [TSS+20]. **Point** [BCIR22, AG21, ACR23, BBC21, BLL19, BLL20, BSA22, CB23, CCGC23, Coc20, CMS23, DY22c, tH22, HCL22, ID20, JL21a, LL23a, LZZ21a, LL23b, MNG+22, MD22, NLZ+22, PEA20, PA21, PLYZN23, PBZ24, PCA+23, RHD+24, RtTBI20, SHM23b, WGB22, XM20, ZJ22, ZL22]. **point-particle** [BLL19, BLL20, PEA20, PA21]. **point-source** [JL21a]. **point-value** [XM20]. **point-wise** [DY22c]. **PointNet** [KM22b]. **points** [DEB21, NPD20, YH23]. **pointwise** [BMBM24]. **Poisson** [BF24, EH22a, SS22a, WZC21, ABÁFTO23, AKKM23, BCF22, BBP24, BZ20, BLK+23, CTG23, CSA21, CCdS20, Der23, ELWY24, EH22b, FZ20a, GHS22, KML23, KKJ21, LM21b, LGZ21, LKM22, LSC20b, LHM20, LWYY22, LM23b, MHW22, MWZ23, Nis20b, Nis21, PDM23, QWZ21, RS20b, RS20c, SWM21, SST+23, TPYX22, WSAZ22,

WK23, Xie22, XC23a, YM21, YFLL21, ZGLL20, ZIMA24, ZYY23, ZO21]. **Poisson-drift** [MWZ23]. **Poisson-like** [BLK+23]. **polar** [BNP+22, BG20c, HP22a, WWZZ24a]. **polarizable** [ACHG+21]. **polarization** [CGLZ23]. **polarized** [BRZ+23]. **pollution** [HMMO20]. **polyatomic** [DWM23, FHJ22, WLZP21, vdWvBAA24]. **polycrystalline** [JTK22]. **polydisperse** [BFC23, SDA+21]. **polygonal** [AM22, BD20a, BLBM24, CP22b, Hac21, HW20b, LS23, MW22, SM21a]. **polygons** [LCL22a, PC21b]. **polyhedra** [KB22a]. **polyhedral** [ADM22, CNCM21, CA22b, DD21, DOQ23, HX23, KLB23, KB23, LM20a, Nis22b, VKR+22]. **polyhedron** [CD22]. **polyhedrons** [Lem20]. **polymer** [XDCF21, ZLC+20]. **polymeric** [BSW24]. **Polynomial** [RB21, ST24, TPSN20, Bha20, BKON23, CGC21, CSY23, DHMT21, EJV22, KP23b, LCS23, LT20a, Li22, LF24b, LZ23, MRYS20, NDH20, NSS24, Poë23, RGSR21, SCS22, TJC21, WL24b, WBH+24, YZZ23, PB22, Poë22, RBBD22, VGG23]. **Polynomial-chaos-based** [ST24]. **polynomials** [EJ23a, GFF20, Oru21, Say22]. **polynya** [LSW20]. **polytopic** [LGZC24]. **ponderomotive** [LAT+22]. **PoPe** [CMGGS23]. **population** [LT22a, PPHO22, Sin21, WF23]. **Pore** [MX22, LM23a, MCT21, WR23b]. **pore-level** [LM23a]. **Pore-network** [MX22]. **Poroelastic** [PN22, AYH+21, BVRS22, BGSP22, BBMA23, HdB20, HdB21, SCdHJ20, WGU+22, ZZML20, ZXY22]. **poroelastic/elastic/fluid** [ZZML20]. **Poroelasticity** [TV22, ASW21, FCM20b, KNLB21, SP23]. **poromechanics** [AHJ23, LW20b]. **porosity** [NAZ22, RHR20]. **porous** [AFV20, ABH21, AdDMT21, ASJ23, BHVJ22, BDMP22, BKMC21, BMQ20, BE20, BR22b, CFSH20, CA24, CYS22, CYYS22, CYHY23, CCW20, DT22a, EAK20, FGKY22, FS21, FP23, GM23a, GQS20, GSFH22, GS20, GLY20, GN23c, HP21a, JHT23, JFH21, JTT23, JH23, KNLB21, KAO+20, KHS20, KWDS22, KWCS23, KLPR20, LZLZ21, LCCM22, LM23a, LZ20a, LFT+20, LW20a, LDC23, LW20b, LLCK20, MX22, ML23, MD22, MMRP22, PPV+21, QERT20, RSA+20, SGW+23, TZ20, Vas23, VT23, WGS+20, WCM+21, WCZ22, XHS21, YHC+22, YZK20, YKFH23, YXL22, ZYL+23b, ZR24a, ZLC+20, ZSKN22]. **porous-medium** [SWG+20, SGW+23]. **porousc** [WL20]. **port** [BRS22]. **port-Hamiltonian** [BRS22]. **posedness** [FP23, KNG22]. **position** [HPS23]. **positioning** [GEvWD22, KB22a]. **Positive** [LM20b, DS22b, DCC+24, MP21, PCF21, QWZ21, Sar21b, SRM24, Toh23, XHD21, XJS21]. **Positivity** [CJK24b, CJK24a, DW22, FZQ21, FZQ22a, GQS20, JTW22, LWYY22, UY22, YU22, BL22b, BMQ20, DWZ23, DWWZ21, DYZ24, DWM23, FX22, GCLM22, GLCS23, GGH+23, HSW22, HS23, HJQ+23, JH23, KBB21, KKS21b, KJB+24, LCS22, LCS23, LCT23, LZLS21, LZ23, MGP+22, PBCL20, QLY21, RWQX23, WABK21, XS22a, XS22b, XS23, YD20, ZCQ19, ZCQ20a, ZYD20, ZZL24]. **Positivity-preserving** [CJK24b, CJK24a, DW22, FZQ21, FZQ22a, GQS20, JTW22, LWYY22, UY22, YU22, BL22b, DWWZ21, DYZ24, DWM23, GLCS23, GGH+23,

HJQ+23, JH23, KKS21b, KJB+24, LCS22, LCS23, LZLS21, LZ23, MGP+22, QLY21, RWQX23, WABK21, XS22a, XS22b, XS23, ZCQ19, ZCQ20a, ZYD20]. **possibly** [RGH+22]. **post** [DM23c, EHL+20]. **post-processing** [DM23c, EHL+20]. **poster** [vL24]. **posterior** [BBO+22]. **posteriori** [JO22, MLPR24, RHSK21, BAT23, DM23c, GCSH22, HMV22]. **posteriors** [MYM+22]. **postprocessed** [AGR23]. **potential** [BLF20, Bre20, Dup21, FLOL23, GKD23, LL22, LKJL22, PAA21, PGS22, RA21, Sac22, SVW21, TWZG22, ZIMA24]. **potentially** [HBF22]. **potentials** [AZV23, DHMT21, KKL+23, KKCC20, LM20b, NR23, PTT22, PTT24, SAH+22, TJ22, Xia23, YW22, Yin21]. **power** [KWMF22]. **Poynting** [WZ22]. **Practical** [FBCD22, WLW+20, TWY22a, YLK20]. **practically** [FM22]. **Pradras** [Abg20]. **Prandtl** [BRT22, LPL+22]. **Pre** [GYWG23, DL21]. **Pre-training** [GYWG23, DL21]. **precision** [CdS22, HL20c, WL24a]. **preconditioned** [AMG23b, Bat20b, LLZ20b, OPHY23, WDL21c]. **Preconditioner** [BS20, BEP+20, GGM+23, HV20, LXY23a, LY20b, LC23, ML23, NFA21, SBVW20, TZNHD20, TY24, YFLL21, YM20]. **preconditioners** [BL20, BPS23, BDS23, BGGM21, CCW20, DMRG22, LM21b, LYY20, PT23a, PS22c]. **Preconditioning** [KS21a, ASKH21, BKMC21, CC22a, DV22, FJH20, FGF22, FCWT22, GDB23, GMD22, JBF21, KBH+22, LHF23, LL22, lLNZ21, LGYK24, TKGB23, TTP22, YFY22, vHG+22]. **Predicting** [IK23a, MLM+21, SFDW23, XSF23, AMK+21, WCM+21, YhCdJ+23]. **Prediction** [EMS+21, AAM20, BJW20, DLM+23, DYGC22, HJLY21, KUO23, NKT21, PZZ+23, RLH22, SFGNMGN22, SPGG23, SM21b, YI23, ZYL+23b, vdBSB20]. **predictions** [Nor24b, STI24]. **Predictive** [HD23, LHA+21]. **predictor** [LBC23]. **predictor/multicorrector** [LBC23]. **Preface** [AACX21]. **preferential** [TACO22]. **presence** [DSSSP20, WLZ24a, ZHL21]. **preservation** [XMZ+23]. **preserve** [HRY+22]. **preserves** [GGB22]. **Preserving** [LVK+22, ÅAL+21, AÖR22, AHH+24, APR22, ACÉ+22, AKKM23, Baj23, BGNZ22, BTZ22, BJC23, BF24, BB20c, BDI+21, BDP23b, BL22b, BMQ20, BRS22, BBA22, CS20, CQW24, CDT22a, CZZ21, CP22b, CHSS20, CW22a, CWX23, CC23, CYS22, CJK24b, CJK24a, CDW23, DDR22, DEN22, DC23, DC21, DWZ20, DWZ23, DWWZ21, DY22d, DYZ24, DW22, DWM23, Edo22, EHW21, FCM+20a, FZQ21, FZQ22a, FH24, Fei23, FGKY22, FGTY23, FR23, FX22, FTK23, GCLM22, GNZ23, GQS20, GEvWD22, GS20, GLCS23, GGH+23, GPS20, GLWY22, GLY20, HBG+21, HPRW20, HPW21b, HHS22, HHSZ24, HL20a, HLXZ21, HSW22, HXX22, HWDM22, HS23, HJQ+23, JM22, JWC20, JTW22, JTZ22, JLQY21, JH23, KBCH20, KBB21, KKS21b, KJB+24, KZC23, KS21c, KCCR22, KWCS23, KK21, KOS23, LHF23, LPM+20, LLCJ23, LW21, LCS22, LCS23, LCSZ21, LYZW21, LY22b, Li22, LXY23a]. **preserving** [LLZ23a, lLTZ20, LCT23, Liu20a, LZLS21, LWW21, LRT+22b, LWYY22, LZ23, LKJL22, MSC+20, MGP+22, MJJ21, MJ23, MHW21,

MHW22, MRBS22, NS22, NFB23, ÖL23, PCF21, PWXY22, PWbCJ24, PBCL20, PM21b, QXYZ23, QLY21, RMJ23, RWQX23, RC20a, RN24, SL22b, SAS+21, SSS20, SSX23, Shi23, SX20, SZQS23, The21, Toh23, TYC23, TYC24, UY22, VTC20, WLH21, WCKS24, WT24, WABK21, WBH+24, XF23, XLZ21, XSSS22, XJS21, XS22a, XS22b, XS23, XGQ+23, YU22, YM21, YYX21, YWLL21, ZNK23, ZNCZ+21, ZCQ19, ZCQ20a, ZC23, ZSST23, ZXX23, ZLQS24, ZWQG23, ZYD20, ZGK+22, ZZL24, ZOEL20, vdEW23]. **Pressure** [ISM+23, AFV20, AF20, ASS21, ASJ23, Bat20b, BJC23, BP21, BBL23, sCpLL+22, CG23, DSPB22, DEvW20, DTB20, FGKY22, FTK23, GMRS20, HPW21a, HTL21, Hig22, HP21a, HTLY23, KS22c, KS22b, LPM+20, LO23, LRT+22b, LLZ23c, LCDS23, MD20b, MS20b, NFL+21a, NFL+21b, RS23b, SLF23a, SBH21, SW22, SKTK21, VMO21, WKK24, XLS22, YA21, YZK23, YZK20, ZSY24]. **pressure-based** [BP21, DSPB22, DEvW20, HPW21a, HTL21, VMO21, WKK24]. **pressure-correction** [AF20, LRT+22b]. **pressure-equilibrium** [FTK23]. **pressure-equilibrium-preserving** [BJC23]. **pressure-free** [SBH21]. **pressure-temperature** [SLF23a]. **pressures** [GQS20, KS22b]. **prestrained** [BGNY22]. **prestressed** [YKdHC20]. **Preventing** [SKTK21, GF21]. **primal** [CWW22, LOLS23, LLOL24, NG20, Nor22a, hSMLS23, WW20b]. **primal-dual** [CWW22, LOLS23, LLOL24, hSMLS23, WW20b]. **primary** [FGL+22, MMdMB22]. **primitive** [CQW24, LJW+22, PCB21, Sel22]. **Prince** [NNJ21]. **principle** [ABY23, JLQY21, LPL+22, lLTZ20, NS22, Shi23, Tot23, XS22b]. **Principles** [Coa21, Cap23, GB22a]. **printing** [OYK+22]. **prior** [LSL20]. **priori** [DCA+22, GZ21, AHR20]. **priors** [BKON23, MYM+22]. **probabilistic** [FTY+22, KK20a, LG20, RK21, ST24, VAK+23]. **probability** [BJW20, CW21, CL20c, YZdCNS21, ZJ23]. **probable** [YR22]. **probe** [CSA21]. **probing** [GWY21]. **Problem** [ZS21a, AN21b, BCL+23, BCIR22, BST23, CEL+20, CZ20b, DLL22, DT22b, ELSV22, FS23b, FCWT22, FZ21, GGM+23, HLB20, HSXZ21, HHVM20, HJH+21, HNF+21, HSS21, Hua21, ILX22, JLCT22, KS22a, KBCH20, KKPB20, KLZ23, LSW20, LDLW21, Lin21, LLT+24, MNG+22, MBM+22, OKTD21, Par22, SS22a, SBVM20, SCL20, UHZ+24, WJKW20, YL24a, YL24b, ZXMK21, ZML20, ZS24, ZHRB23]. **problems** [AHG21, ASW21, AuIL20, Ale23, ARB+21, ACDV24, ACD23, AL21, AS20, BFG22, BS22b, BBPR21, BB21, BEB+22, BDFT23, BFI22, BCJ24, BBH23, BZB20, BEP+20, BG20b, BB20c, BHP24, BY20, BFST23, CQY21, Cai21, CG24, CWW22, CORJ+23, CZ22a, CWHZ21, CL23a, CYS23, CBA+21, CELV21, CELV22, CHM24, Coa22, CMNS21, CPA+23, CNCM21, CEM20, DMRG22, DJ23, DW23, DH24, DM23c, EPV21, ELLZ22, EdCC+23, ESJ23, FTY+22, FVM22, FVM23, FZ20b, FHM24, FCL21, FLS23, GYWH20, GLWZ22, GQF23, Gar21, GHD24, GSOM23, GN20, GA20, GW20, GMNY23, GJW24, GL20, GZ21, Hac21, HLA20a, HLZ20, HKKS21, HNR23, HHN+21, HP21a, HQ22, HPKS23, HLL22, HPPZ20, HLY20, HWY20, HSS22,

HWDM22, HD23, HXQL23, HBF21, ID20, JMAK22, JWZ20, JF24, KC20a, KKA24, KSW22, KBH+22, KNS21, KSHJ20, KLG+22]. **problems** [KNG22, KGN22, KWMF22, LCL+22b, LPL+22, LTD+22, LLZ22, LWY+20, LLW20a, LJ21, LT22b, LY22a, LWY23, LPJ+23, LHM20, LRAQ22, LWZ22, LY20b, LSZ21, LW23, LMK21, LT21, LL24b, MWY+20, MZ22, MZI+23, MRHR20, MST24, MDG20, MK20, MRG21, MW22, MPIG23, MCF23, MBBV22, MRT+22, MFdSS24, MMPD21, MTWBT21, NNJ21, Nis23, Nor22a, Nor24a, Nor24b, OSL22, Oru21, PZ21, PMACG21, PWXY22, PZ24, PMSP23, PH22, PK20, PGC24, PBF24, RMA20, Ran23, RFZ22, RZ23, RN23, RN24, RB22, Sab20, SPdS+21, SM21a, STEK17, STEK22, SWG+20, SGW+23, SRV21, SY21, SSTD24, SFGNMGN22, SSG+20, SML20, SGLP23, SLOZ21b, SNW23, SBVW20, Tak23, TCW24, TLD20, TV22, TJM23, TPPA22, TWF+20, TLHL23, Vab23, VAK+23, VACE21, Vas23, VK22, VK24, WBN21, WBN22, WZ20, WW20b, WP21, WZW21, WCF22, WZZ23, WCC23]. **problems** [WX24a, WZ21a, WL22, WLL+23, WC23, WWZZ24b, XZ22, XFL21, Xu24, YS22, YMK21, YZdCNS21, YYLY22, YAX20, YK20a, YBST24, YZZ24, YZZZ22, YNDH22, ZP20, ZOWW20, ZMSX20, ZG21, ZFG21, ZDW22, ZXY22, ZZZG23, ZYL23a, ZSL+23, ZLL23, ZS21b, ZHH+24, ZTZX24, ZR24b, ZPK22, dSdCdMC+24, vHP22]. **procedure** [ASKH21, LSTZ21]. **procedures** [Edo24, LMN20]. **Process** [STG20, XCL22, ABOS22, BBH23, BGH21, CZ23, CL20b, CDL+22, CSLC21, GTDB22, HNR23, HWZ24, LT20a, MRT+22, OYK+22, SDP20, Wan23, YBST24, ZLC+20]. **process-state** [GTDB22]. **processes** [ABH21, AFMP24, BTEK22, CHOS21, DES23, Li21, MY23, MYZ22, RHR20, RBC+23, WPBS22, ZMWS22, ZLS22]. **processing** [AG21, BEP+20, DM23c, EHL+20, MTB22, Sem21]. **processors** [LFL+22]. **product** [AMG23b, CN21, Don23, HKKS21, KAZS23]. **production** [LO23]. **products** [PR23]. **profust** [FLW20a]. **programming** [Kiv21, YOH+20, RHSK21]. **Progress** [LRT13, dv23a]. **Projected** [HKL+23]. **Projection** [MTK22, RIC+22, ASS21, Ani21, BF22, BFM23, BBD+20, BZB20, BWBT24, BTKP24, CHZ+21, CI21b, GQR23, GFY20, tH22, HBBN24, KS22c, KS23, KAC22, KSI+23, LMS23, LL21b, LCS23, LLF+22, LXD+20, LHXZ22, LCBW23, NFL+21a, OL20, OLS21, OSL22, PKC22, TN23, WH24, XGCW+20, XC23b, YA21, YP24, aZWY23, ZWB21, RHD+24]. **projection-based** [BF22, BFM23, GFY20, HBBN24, KS22c, KSI+23, LMS23, PKC22, TN23, ZWB21, RHD+24]. **Projection-tree** [RIC+22]. **projection/data** [GQR23]. **projection/data-driven** [GQR23]. **projections** [HWDM22, HD23, LL21c]. **Projective** [BR22a]. **projector** [Dup21, EOP20]. **projector-augmented** [Dup21]. **projector-splitting** [EOP20]. **prolate** [SK23a]. **Prony** [DS22b]. **propagation** [ALM23, AD21, AP20, BBMA23, CC22a, DGS20, FGD+21, GHE+23, GC20b, GAC20, KYO22, KS21c, LHCK24, LLLL23, MD20b, MMRP22, NT23, Poë22, Poë23, PCD23, STEK17, STEK22, SM21b, TAWD23, TLB20, XHS23,

YZK23, ZZZ20, ZDC20, ZPK22]. **propagators** [JL21a]. **Proper** [NR23, SL20a, ADK+21, BCG+20, KCCJ21, MSWH22, NS23, TGS+22, DJ22, DJ23, JADS21]. **Properties** [LNF20, LPS21, LJ20, LN21a, LBM20, MHWY21, MIM20, NDH20, PGMTP23, Ran23, SMSAGG22, Yan23]. **property** [FX22, MRK+20b, MRK+20c, PBN+21, QCD21, TKK22, XS23]. **proposition** [MVO+22]. **propulsion** [AP23]. **protection** [DR20, PGM22]. **protein** [HST22a, KSST21, ZAMG20]. **protein-membrane** [ZAMG20]. **protocol** [VdGP20]. **Provable** [GLY22, MIM20]. **Provably** [AAH+20, CQW24, CDN+22, HRRHG21]. **proxy** [EFY23]. **PSE** [ZT23]. **PSE-like** [ZT23]. **Pseudo** [EL24, AFV20, FFFY20, GFG22, KS22b, PAA21, RHR20, VLV20, WWG20, YYM+22]. **pseudo-differential** [FFFY20]. **Pseudo-Hamiltonian** [EL24]. **pseudo-parabolic** [AFV20]. **pseudo-potential** [PAA21]. **pseudo-pressures** [KS22b]. **pseudo-spectral** [GFG22, WWG20]. **pseudo-time** [VLV20]. **pseudo-transient** [RHR20]. **pseudo-vacuum** [YYM+22]. **Pseudodifferential** [PA20]. **Pseudospectral** [AFGLM20, AZ22, AST21, tLjTbZ22]. **PSI** [LD22]. **PSTs** [MVO+22]. **PU** [MM23]. **Puiseux** [NPD20]. **Pulliam** [PJBB20]. **pulse** [CMS+22a, MAP+20, NTSM20]. **pure** [GMSLC24]. **purely** [GLT+20, PM22a, SLWRG21]. **purification** [AR21]. **purpose** [AT20, Sha21]. **pursuit** [HKL+23]. **push** [BJW20]. **push-forward** [BJW20]. **pyroclastic** [MFRZ22].

QCD [RSO20]. **QMA** [Hua21]. **QMA-complete** [Hua21]. **QP** [FSM+22]. **QSV** [SS22b, SS22d]. **QTT** [MTO21]. **QTT-isogeometric** [MTO21]. **quad** [PBF24, SGPW21, WWN+22]. **quad/octree** [PBF24]. **quad/octrees** [SGPW21]. **QuadConv** [DSBD24]. **Quadratic** [BF22, CHSS20, ID20, NW23, Sac22, YOH+20]. **Quadratization** [Yan21b]. **Quadrature** [DHMT21, DSBD24, GN23b, TM23, WK20, AKK20, BT20, DY22c, FCY+20, GB22a, KKN20, LYS+22b, LSY+23, MÖR24, PPHO22, PO23, Say22, SBVM20, SLQW22, VVL21, vdBSB20]. **Quadrature-based** [DSBD24, TM23, PO23, SBVM20]. **quadrature-finite** [LYS+22b, LSY+23]. **quadratures** [CWT24]. **quadrilateral** [BW23, GYWH20, KRL21, PP22b, PWX24]. **quads** [MN22]. **quadtree** [BFI22, HLPX24]. **quadtree-based** [HLPX24]. **quadtrees** [CPK22, PPV+21]. **quality** [HW20b]. **quantification** [AB23, BBO+22, BCPV21, CDT22b, CZ23, CCMC20, EPL22, FJG+20, GN22, GGEJ20, KP23b, KLG+22, KWF20, LLT+24, NYZ21, PMZ+23, STI24, SSG21, SC23, SBJ+23, TBST20, XF21b, XF21a, ZBB21]. **Quantifying** [KNP20]. **Quantitative** [FS23b, MM21a, LTK+22]. **quantities** [LC22, YL21b, VGG23]. **Quantum** [JLLY24, Le21a, TS20, ÅAL+21, AFL22, BCG23, BSZ+23, CZ20b, HKRS23, HXZ23, JLY22, JLY23, LHW+23, MR23b, PLM+23b, RMN+24, SM24, VCCN+23, WLZP21]. **Quasi** [BFS23, PLM23a, SS22b, AB24, BFL20, CSW+24, CHT20, CCE+21, CF20, GWC+22, GCL+22, Lee21, LAT+22, MDG20, NTSM20, SHL+20, WZ23b, SS22d]. **quasi-gas**

[CCE+21]. **quasi-geostrophic** [CHT20]. **quasi-incompressible** [GCL+22, SHL+20]. **quasi-Newton** [Lee21]. **quasi-one-dimensional** [AB24, CSW+24]. **quasi-optimal** [MDG20]. **Quasi-periodic** [BFS23, PLM23a, BFL20, WZ23b]. **quasi-similarity** [NTSM20]. **Quasi-Spectral** [SS22b, SS22d]. **quasi-static** [LAT+22]. **quasi-symmetry** [GWC+22]. **quasi-uniform** [CF20]. **quasidiffusion** [GA20]. **quasilinear** [Bre20, HABG23, ZC22a]. **Quasiperiodic** [DS23c]. **quasiperiodicity** [CSX21]. **quasistatic** [AR22, KC20a]. **quiescent** [NTSM20].

R [Pan20b]. **Race** [BABD21]. **radar** [MTB22]. **radial** [BSVL24, DW20b, FZS+21, JYY22, KEY20, LLLL23, LYS+22b, TVL+22, WQZP20, WCC23]. **radially** [Bre20, SOBP22]. **radiation** [BOB21b, BOB21a, BVR22, BRZ+23, BR23, BD20b, CSS20, CLS24a, CIMG21, CCH20, DDR22, DW20a, HR23, HNF+21, JTZ22, KKL+23, LCS24, LSW20, LLS24b, MH22a, PM22a, PMF20, TR21, TLWM20, TYBW23, Yan21a, YAX20, ZTZX24]. **radiation-moment** [LM21c]. **Radiative** [GHP+23, ASBM20, Ani21, BOB21a, BTGA22, DS23b, FLZ20, GA20, GP23, HCCR22, JBF21, LHWZ21, LM21c, PT23b, SSS20, SSX23, Shi23, SH22, TZ21, XSSS22, XJS21, ZCQ19, ZCQ20a, ZSST23, ZCCN23]. **Radiosity** [Ara20]. **RAM** [KNS21]. **RAMSES** [SC22c]. **Random** [ALFN22, DFJ22, ZS21a, CLY21, CKLM+23, CC20, CY21, DL21, DW23, FZ21, FCY+20, GXY24, JLRZ20, LSS20, LZ20b, LPZ22, LM22, NDH20, TL20, WD23, ZZH22, JLL20]. **Random-batch** [DFJ22]. **random-choice** [ZZH22]. **random-weight** [DW23]. **Randomized** [SPdS+21]. **randomly** [FTY+22, KT20]. **Range** [Kho20, BCG23, HMMO20, MCBA20, MM21b, PLYZN23, SH23a, ZDC20]. **Range-separated** [Kho20]. **Rank** [TL20, ARGK22, CH22, DV23b, DCSG22, EOP20, EHW21, EJ21, EOS23, Ein24, EMP24, EMS+21, GQ22, KWMF22, Osi20, Osi24, PMF20, PM21b, PM23, PEL23, ZOG21b, ZG24]. **Rankine** [GKL21]. **RANS** [AF21, AFP22, BPJ22, DR20, EDEV23, HTDL24, PBJ23, ZDS+21, ZAW+20]. **RANS-based** [BPJ22]. **RANS/LES** [DR20, HTDL24]. **Raphson** [CQW24, VdGP20]. **rapidly** [TPPA22]. **rare** [DSS+22, SFDW23, ZSM22]. **rarefaction** [SH23a]. **rarefied** [BKMM24, GMNY23, KJ24, LSC+20c, LZX20, LZZW24, SH23b, SKT20, SKCM22, SZW+20, XLXC20, XMZ+23, YGW+20, YZSD21, ZZX20, ZPS+21]. **Rascle** [BX20]. **rate** [CSASS21, LYZW21, LO23, MLM+21, YKdHC20]. **ratio** [CPGD20, DC21, GQF23, HRWP22, RZH20, WLKR23, WGY+21, ZWLG23, ZOEL20]. **rational** [CEMO21, HLM+20]. **ratios** [HPW21a, HZHL22, LRT13, LTBM23, ZLG+23, dv23a]. **Raviart** [BW23]. **Ray** [ZZX20, CIMG21, DSSSP20, LTDC23, SHM23b, WCBQ24, YCC+22]. **ray-based** [YCC+22]. **ray-effects** [DSSSP20]. **Rayleigh** [BFL20, CCCH23, RS20a, SSS22]. **rays** [YCC+22]. **RBF** [MM23, AMG23a, CS23, GFF20, LSY+23, MFG22, TB21, ZP20, Zha22].

RBF-based [LSY+23]. **RBF-FD** [CS23, MFG22, TB21, ZP20, GFF20]. **RBM** [JLL20]. **Rd** [CE21]. **RDFM** [XHY23]. **re** [LHFH20, SAB+24, SBJ+23, GCSH22]. **re-** [SBJ+23]. **re-initialisation** [LHFH20]. **re-redistribution** [SAB+24]. **reacting** [BB20a, CAF+22, CJK24b, CJK24a, DY22d, FCW21, JK20, KCD+23, OCGT22]. **reaction** [AdS22, AAKW20, ARR21, BFP21, BHP24, CCL21, CC24, CZ22a, CLPP24, Coa22, FGK22, FOL23, KV20, LLO22a, LWW21, LLOL24, LY23, PEL23, SSPV20, SMR22, TZ20, Yua21, ZJZK20, ZZ20]. **reaction-advection-diffusion** [CZ22a]. **reaction-diffusion** [AAKW20, FOL23, LWW21, LLOL24, Yua21, ZJZK20]. **reactions** [HZY22, XYL22]. **Reactive** [DFJ20, ARC22, AMK+21, CYYS22, CCW20, DT22a, FS21, HKS20, MRdB21, PCF21, PJW21, VACE21, YYB23, ZZL24]. **reactivity** [LLB+23]. **reactor** [DJ22]. **Real** [PB20b, RLH22, BJC23, DS22a, DEvW20, GTDB22, HPA22, HP21a, LVK+22, MHWY21, PSCK23, UBT22, WKK24]. **real-fluid** [MHWY21]. **real-gas** [BJC23, DEvW20]. **real-space** [HPA22]. **Real-time** [PB20b, RLH22, GTDB22]. **realistic** [ZMQ24]. **Realizability** [NFB23, SL22b, SL20b, SBVM20]. **Realizability-preserving** [NFB23, SL22b]. **realizable** [CBY23, LJK+24]. **realizing** [Sha21]. **Recasting** [BTKP24]. **receptivity** [HBFB20]. **recognition** [CLC24b]. **Reconstructed** [LLNL21, LLL22, WLL+23, ZCL20]. **Reconstructing** [LHW+23, Cam21]. **Reconstruction** [CD22, CBRY21a, PLV20, ASKH21, BKC22, BBA22, CSCL20, Cha23, CZLC20, CN22, CZLC22, CNC21, CN21, CND22, CDN+22, CCH20, DBT+20, Den23, Don23, DW21, DGPP22, DGW22, DWM23, HSH20, HLPX24, HJQ+23, JZSX20, JZSX24, KYO22, KJdM+22, KLB23, LsCxL+20, LLD+22, ML20, ML24, MM20, MT21, PZX20, PV22, PKL+21, PGCC+22, RS20c, RHG22, RV22, SEG22, Sha23, SK23b, SLF23b, SS22c, VOL23, WDL+21a, WGY20, WL24b, WWJ24, Xia21, YZZ23, YK20b, ZCY23, ZX22, ZFAA24, ZCY24, ZQS+21, ZC22b, ZC22c, vdEW24, dMKJ+22]. **reconstruction-based** [JZSX24, RS20c]. **reconstructions** [BMBM24, DLZ23]. **recording** [AL20]. **recovered** [LLSD20]. **Recovering** [CGLZ23, EG20, GLL20, CQW24, CHZ22, YYL20]. **Recovery** [JKJ20, BZ20, CZHY20, LGZ21, Nis20c, TL20, WBH+24]. **Recovery-assisted** [JKJ20]. **rectangular** [BG20c, CJLL21, DSZ20, ML20, YL24a]. **rectangular-polar** [BG20c]. **Recurrent** [WRH20]. **Recursive** [AFS+23, GKD23, ZT23, SI22]. **recycling** [CC22a]. **red** [RE22]. **redatuming** [AN21b, AL21, ZC22b, ZC22c]. **redefined** [TKK22]. **redistanciation** [MSIM21]. **Redistancing** [PhSHK24]. **redistribution** [BG21, GAB+22a, SAB+24]. **Reduced** [DJ22, DJ23, GHNS21, RRBR+23, WCL+20, ADK+21, AHR20, AMW22, BVRS22, BBH23, BHP24, CFS+22, Cha20, CGJM21, CWHZ21, CJW22, CCCH23, CBA+20, CBA+21, DDP20, DCA+22, DY22c, DH24, DFP+21b, EFY23, EMS+21, FFRT+21, FAA20, GLSZ22, GQR21, GQR23, GS21,

HRG+23, HSMR20, HBBN24, HD23, HTRC23, ISM+23, JADS21, KCWZ22, KS24a, KCCJ21, LJ23, LP23a, LT20c, LY22c, MCI23, NKT21, NGK+21, PZ24, PB20b, PB22, Poë23, RLH22, RBF+21, RIC+22, SH23a, SH23b, San20, TCK+22, WW20a, WRH20, WCF22, WLZ+24b, XLLH21, XLS22, YSCM21, YZSD21, YKH24, YM20, ZWB21]. **reduced-dissipation** [FFRT+21]. **Reduced-order** [DJ22, DJ23, WCL+20, ADK+21, CWHZ21, CCCH23, CBA+20, DCA+22, DH24, JADS21, KCCJ21, LJ23, LT20c, LY22c, NKT21, PB20b, RLH22, RBF+21, RIC+22, San20, WW20a, WRH20, WLZ+24b, YKH24, ZWB21]. **reducibility** [BFM23]. **Reducing** [CSASS21, GEvWD22]. **reduction** [ASBM20, An21a, AWB+20, BF22, BFM23, BTT24, BVR22, Ben23, BW20, CGJM21, CCGC23, CDZ23, Da22, DV23b, DFGR20, EMP24, EAK20, FTZ22, GHE+23, GFY20, HR23, HBBN24, HWDM22, HJ24a, KB24, KC20a, KV20, KS24a, KEML+24, KSK21, LT22a, LCPW23, LC20, LL21c, LT23, MZ23, Mis23, NP23, OA21, PC21a, PR23, PBZ24, PMH24, PBJ23, Qia22, RA23, SBCL24, TL20, VACE21, WCL+20, WDH+21, WZZ23, YH22b, ZGLL20]. **reduction-based** [CGJM21, ZGLL20]. **reduction-consistent** [HJ24a]. **reentrant** [PH21]. **reentry** [NPL+24]. **reference** [MNG+22, The21, Yan21a]. **refined** [HdB21, LKEM21, MSWH22, XLZ21]. **Refinement** [AM22, ADM22, AWB+20, BB20c, CAF+22, DS23b, DMRB20, FCL23, FWG22, GQF23, KSK+24, KRL21, LLW20a, tLjTbZ22, MZC+22, NGZD22, PBF24, QZZ+24, RAZA21, SAB+24, SC22c, ZPW+23, Der23]. **refinements** [GGM+23]. **reflection** [RB24]. **Reflective** [PT23b]. **reflectivities** [ZC22b, ZC22c]. **reflector** [BCIR22, RtTBI20]. **reformulation** [DD22b]. **regeneration** [LZPM22]. **regime** [BJC23, CY23, GMD22, LSC+20c, PLX24, SZ21, ZGK+22]. **regimes** [AZ22, KOM+22, KDB+20]. **region** [AMG23b, Gar21, MP21, Sar21a, TUCT24]. **regions** [RGH+22]. **Registration** [BTT24, FTZ22]. **Registration-based** [BTT24, FTZ22]. **Regression** [STG20, ABOS22, BBH23, CZ23, GLSZ22, HNR23, LT20a, LZJ+24, MRT+22, YBST24]. **regressive** [GZ20]. **regret** [TAVD21]. **Regular** [CBCF20, CY21, KDL23]. **regularisation** [van22]. **regularity** [CWW22]. **Regularization** [LGZ21, BCIR22, DD22a, ESJ23, HYCL23, JKZS21, LLW20b, NVPP23, PBJ23, WSAZ22, ZLL23]. **Regularized** [BY20, GJW24, ZMSX20, ZXY22, LY20a, NCC21, SL22a, WCM+21, YP24]. **reinforced** [LLZL20]. **reinforcement** [ABY23, BPBM23, DMK+24, FSWA23, FCL23, HGV+21, KKY22, ND23, PS22a, VRK+21b]. **reinitialization** [AAM20, HCL22, SYC+23, XSA+21]. **Reinterpretation** [AÖR22, XY20b]. **reinterpreted** [XHY23]. **Reissner** [GQF24]. **rejections** [CSASS21]. **related** [ABH21, HNR23, tLjTbZ22, WZ22]. **relation** [EL23, NG20, WL24b]. **relations** [HXFD20, XHD21]. **relationships** [YH23]. **Relative** [WCA+20, TAVD21, YZK20]. **relativistic** [AZ22, BMBM24, BKC23, CQW24, CDT22a, CCY+20, CKT21, CW22a, DT20, DT21a, DT22b, DT22c, Gon24, LDM+21, Li23, LKG+20, NNL+20,

RHC+24, Ume23, WNZ20, WLH21]. **relativistically** [XLT+20]. **relaxation** [ADP22, AKKM23, CW22b, CHM24, DFJ20, FBG20, GKPT22, HKMR20, HRG20, JZZ22, KMR23, LLZ23a, LHWZ21, LZY+22b, LY23, MTB22, TPK20, ZMWS22, ZS22b, ZZH22, GM23b]. **relaxation-learning** [LY23]. **relaxed** [Fei23]. **RelaxNet** [XF23]. **release** [GMMS22]. **relevance** [TPSN20]. **reliability** [FLW20a, RRN23]. **reliable** [SPdF20]. **ReLU** [CCL21]. **remap** [LCWJ20, LM20a, SK23b]. **remapping** [GLCS23, KKS21a, KKS21b, LCS23, PWbCJ24, RGH+22, VKR+22]. **remeshed** [BPG21]. **removal** [DE22]. **rendering** [FML21]. **renormalization** [JWH20]. **Rényi** [CY21]. **reordering** [LWWH23]. **reorganization** [CDL+22]. **repair** [dSdCdMC+24]. **reparametrization** [ÅAL+21, BGR20]. **reparametrization-neutral** [ÅAL+21]. **repetitive** [DS20]. **replica** [LWZ22, LMZ23]. **represent** [DM21]. **Representation** [SW23, BBW+21, CLC24a, CCGC23, GQ22, The21, WD23, XY20b]. **representations** [AR22, BMV22, ER22, JLY23, LDZ24]. **Representing** [LBN21, DN21]. **reproducibility** [DSA23]. **requirements** [CB23]. **resampling** [FCM+20a, IL23]. **ReSDF** [PhSHK24]. **research** [DSA23, SI22]. **reservoir** [AT20, EAK20, FMS21, LFP+21, LTD+21, LTE23, LO23, WLW+20, WR23b]. **reservoirs** [RHR20, TH23, ZA21, dSLdA+22]. **residence** [AWP23]. **Residual** [CORJ+23, ZCCN23, AÖR22, AR20, CGJM21, CX21, GB22b, HBEK23, LKEM21, LRAQ22, LN24, LZCC22, RMJ23, SLNM21, TL21, VM22, WTX+21, YZK23]. **Residual-based** [CORJ+23, LN24, RMJ23, SLNM21]. **resistance** [BVRS22, Da22]. **resistive** [BWG+20, LL22, RRHH+21, TCK+22]. **resolution** [AFV20, CCB22, DS22a, DT22a, DYMC20, HKS20, HZ22a, JZSX24, KIHB21, LSQ21, LZ24b, MLL+24, PAA23, PB22, Poë23, RRL+23, SST+23, SFNMF+21, VBB+23, WZTZ21, WZWZ23, WSG+24, YKLL21, YYD+22, YDC22, ZRH21, ZZ24, ZBY+23, ZB21c, ZQS20, ZS20, dSLdA+22]. **resolution-independent** [YYD+22]. **resolved** [CZ22b, CW22b, CEBG22, FSW22, KMF23, KSBG20, LWWH23, LYH23, LHW+23, MMZR21, PBM23, RR22, RGLN22, RE22, SCB20, SWHJ22, SFNMF+21, Vre17, Vre21a, WGY20, WA23, YRHN22]. **resolvent** [HKJ21]. **Resolving** [CS21b, DhJV+22, DEB21, FB22, HPX23, HYZ22, LXSF22, WGS23]. **resonance** [CE21]. **resonances** [CCER20, DHM21b, DLZ23]. **resonant** [DGL+23, TLB20]. **resonators** [AH21, CSM20]. **resource** [PWB24]. **respect** [HEG23]. **response** [EDLF20, LE21b, MMSW22, NDH20, VCCN+23, XZWH22, ZHL21]. **restart** [CCN21]. **restricted** [LYY20, SMV22]. **restriction** [BKMC21, GHE+23]. **restriction-smoothed** [BKMC21]. **results** [CSASS21, GJF20, LPG+20, RA21]. **retrieving** [ABDD20, WDH+21]. **reveal** [LZJ+24]. **Revealing** [HYZH22]. **reversal** [AL20, AL21, DW21, KTDG22]. **reverse** [WZ22]. **reversible** [AG21]. **review**

[LPG+20, MKB20, WR23b]. **Reynolds** [LMFV22a, BSCG22, HRWP22, KL20, LMFV22b, MAPS20, NFB23, PBJ+22, WGY+21, YLW21, ZLG+23]. **Reynolds-stress** [BSCG22]. **Rham** [DD21, DOQ23]. **rheology** [BFNK+21, YYJ+23]. **Richards** [MCP23, QZZ+24]. **Richardson** [PS22c]. **Richtmyer** [RS20a]. **Richtmyer-Meshkov** [RS20a]. **Riemann** [AMB22a, CSCL20, CLJ+20, CKPP24, FAA20, HKS20, HHVM20, HJH+21, KBCH20, LVK+22, LZS22b, LLS20, LCDS23, MZI+23, MRHR20, MOBR22, MM21b, QSZB20, SGB+21b, Ser23, WDS22, WH22a, WGS23, ZZML20, ZS21a, ZS24, ZQS+21, ZQL+22]. **Riesz** [BZB20]. **Riesz-projection-based** [BZB20]. **right** [GJL20, HJ22]. **right-hand** [HJ22]. **rigid** [BPG21, CCM+22, KBS+21, LHT21, LT20b, MMRP22, OSL22, WNB21, WDK22]. **rigid-body** [KBS+21, LT20b]. **rigid/soft** [BPG21]. **ringing** [LLF+22]. **Ripa** [HLQZ23]. **ripening** [MX22]. **risk** [GN23a]. **risks** [HL20c]. **Ritz** [LCL+22b]. **RK** [NCQ22, Mar20]. **RK-DG** [Mar20]. **RKDG** [GZW20a]. **RKDG-FEM** [GZW20a]. **roadmap** [YD20]. **Robin** [BFG22, CLS+20a, CHM24, TPB22]. **Robinson** [FCWS22, LYY20]. **Robust** [CG24, CKPP24, CMCX23, CGM+23, GCMV23, HX21, MNG+22, Nis20d, RMM+22, SPF21, hSMLS23, TAVD21, WC23, YZK20, BAT23, BZC+22, BHK+22, CK20, CD22, DLWW22, DS22b, EOS23, HV20, HL22a, HNZ23a, HTLY23, HZ22b, HTDL24, HJ24b, KCT+23, MRZ21, PAA23, RUG20, Ren21, TYC23, USRH20, WGS23, XMY22, YLW21, ZZC20, ZL21d, vHG+22]. **robustness** [FA22, RBD+21, SLQW22]. **rock** [HP21b]. **rocks** [KH21b]. **rods** [CGL+23, RW22]. **Roe** [CKPP24, HCdM23, Kem23, LVK+22]. **Roe-type** [CKPP24, HCdM23]. **RoeM** [CKPP24]. **Roland** [AFP24]. **Role** [JKZS21, PGTS21, QCD21]. **ROM** [FRW+24, SFGNMGN22]. **Romenski** [MMM23]. **ROMs** [RS23b]. **Roohi** [Pan20b]. **root** [JF24, KWS22]. **root-finding** [JF24]. **Rosenblatt** [CDZ23]. **Rosenbluth** [SMAY22, SAH+22]. **Rotated** [CKPP24, GCDT22, XH24]. **Rotated-RoeM** [CKPP24]. **rotated-staggered-grid** [XH24]. **rotating** [AFP22, CKLZ23, CDLX23, HSM20, Ian20, KLZ20, SdSPS24, WWZZ24a, WCB20, WHS22]. **Rotation** [GDLL22]. **Rotation-equivariant** [GDLL22]. **rotational** [Edo22, WZX24]. **RotEqNet** [GDLL22]. **rough** [KT20, LH21, LYZ22]. **roughness** [GD21]. **routing** [CEW23]. **RSIR** [CSCL20]. **rule** [FL23a, GN23b]. **rules** [IRT22, KKN20, vdBSB20]. **runaway** [CDT22a]. **Runge** [BD20a, NCQ22, NV22, ALMF23, ADP22, AC23, BM24, CBQ21, CdS22, FY22, GMA23, JLQY21, KBCH20, KSS21, KS22b, LNF20, Mar20, MYM+21, NS22, NNJ21, SMR22, SW23, SZQS23, VLV20, VN21, Ver23, YYX21, ZQYS20, ZHR20, ZH20, ZQS20]. **ruptures** [YKdHC20].

S [Abg20, Yan21b]. **S-IEQ** [Yan21b]. **SAAF** [LKEM21]. **saddle** [YH23, ZYZ+23]. **safe** [MLPR24, SM24]. **sample** [CGIL+21]. **sampled** [HD23, LGMV22]. **Samplets** [HM22]. **sampling** [AAMPR24, AMM23, BS21, CHG+20, CZ20b, CM20, CHZ22, EKPS23, GW23, Gri20, HR22, HGSK22, KFP+22, LYZ22, LLZ20b, LM22, PR21, RA23,

Sha21, SNW23, TWY23, TT20, WW20a, WSG+24, vdBSB20, DCS23, HXZ23]. **sampling-based** [vdBSB20]. **SARS** [KSST21]. **SARS-CoV-2** [KSST21]. **SAT** [CWL+23, LCN24]. **satisfying** [LM20b, XS22b]. **saturation** [MR23b]. **Saupe** [SVW21]. **SAV** [HX21, HS23, JZZ22, LL21d, MMS24, ZOWW20, ZS22b]. **SAV-based** [MMS24]. **SAV-type** [ZOWW20]. **Savart** [YSTK20]. **SBP** [CWL+23, LCN24, OP20]. **SBP-SAT** [CWL+23, LCN24]. **Scalable** [AMB22b, BRZ+23, CYYS22, CDZ23, DBSS+20, DV22, FCWT22, PBN+21, RHC+24, SMW+22, AF24, BPS23, DCSG22, FGF22, GdFP+24, GMA23, KKM21, LGV20, MBE21, MRdB21, NVK+22, PJZ+23, RAB23, TCK+22, TBM22, TZNHD20, TBP20, XMY22, YCM+20]. **Scalar** [LQX22a, ASSZ21, JZZ22, Kiv21, KdL20, KV23d, LL21d, SYOS19, SYOS21, SLNM21, TNB21, YX22, ZLW22b, AST21]. **scalars** [JM23]. **scale** [AP21, ABH21, ASSZ21, AF23, ACR23, BCJ24, Bri22, CMH20, CBA+21, CBC+23, CdS22, DS22a, DhJV+22, DLWW22, DYGC22, DEB21, DFW22, EHW21, FVM22, FVM23, FLW+23, GQF23, GCD20, GGH+23, HdB21, HWDM22, HD23, KSK+24, LPL+22, LLB+23, LWY+20, LXZ23, LTK+22, MCT21, MH22b, MP21, MD22, ODM23, Oru21, PS22c, PBO20, QJQW22, QCWC23, TTSP21, WDL+21a, WLPK20, WR23b, WZ23a, XF21b, XF21a, YSCM21, ZJQ+24, ZPS+21, ZO21]. **scale-adaptive** [ZJQ+24]. **scale-bridging** [LLB+23]. **scale-invariant** [DLWW22, GGH+23]. **scale-resolving** [DEB21]. **scales** [GCP24, HVD23]. **scaling** [DHM21b, KCX+21, LPZ22, PCQL20, SYAM23, TPYX22, WZBV20]. **scarce** [LHW+23]. **scattered** [CS23, HM22]. **scatterer** [AL20, ABDD20]. **Scattering** [KKL+23, AHG21, AL21, BGH20, BB21, BDFT23, Bre20, BG20c, BFL20, BY20, CCER20, CE21, CAG20, CGLZ23, CMS+22a, CJLL21, DLL22, DLMZ22, FZQ22b, FCY+20, GLWZ22, GXY24, HR22, HHL20, HL22b, JWH20, KFSM21, LL23a, LY20b, LMUHR22, MTW23, MGA20, Par22, PTT22, PTT24, PN22, Tak23, TLWM20, TPPA22, USRH20, VBA22, WRBK20, WC23, YYL20, YZZ24, YL24a, YL24b, ZZW23, ZZW24b, ZHRB23]. **Scharfetter** [Kan20, NBR22]. **Scharfetter-Gummel** [Kan20]. **Scheme** [SLOZ21b, SLOZ21a, ARC22, AT20, APR22, AZV23, AAKW20, AKKM23, BL22a, Bal21, BBH+20, BTZ22, BCIT22, BSA21, BSA22, BF24, BDF+23, BDI+21, BCP22, BLBM24, BGQ+23, BFG23, CPX21, CPX22, CKLZ23, CF21, CHT20, CZ20a, CWY21, CJW22, CY22b, CN22, CGZ23, CLJ+20, CWW20, CTCS22, CWL+23, CLS24a, CCH+23, CKPP24, CSY20, CFGJ23, CNCM21, DDR22, DVS22, DLP21, DNO23, DLWW22, DWWZ21, DOQ23, DMC+23, EJ21, EC20, FZB+23, FCWS22, FFRT+21, FLW20b, Fu20, FTK23, FP23, GCVI22, GYWH20, GLF23, GdFP+24, GS23, GQS20, GBLT20, GMSLC24, DCC+24, GGH+23, GLLM22, GMJ24, HPA22, HZTN21, HZD21, HYM20, HLXZ21, HYZ22, HTLY23, HLA20b, HLA21, HSS21, HLH21, IMJ20, JM22, Jai22b, JYY22, JZSX20, JZSX24, JLRZ20, JTZ22, JGR22, KSTT22, KKPB20, KKL24, KK22a, KDL23, KJ22, KLZ20, KWMF22, KOS23, LPM+20, LVK+22]. **scheme** [LCJ20a, LOL20, LCSZ21, LLQC21, LDLW21, LZ22a, LY22b,

LZY22a, LLQ+23, LWL+23, LLS24a, LXSF22, LF24b, lLTZ20, LNYD20, LRAQ22, LRW21b, LCN24, LM20a, LD20b, Liu20a, LZLS21, Liu21, LWW21, LZY+22b, LCC+23a, LCCL23, LZ23, LKG+20, LL24b, LBM+23, LpW21, LY22c, LLQ+24, MLPR24, MGP+22, MN21, MA21, MDB24, MYL21, MW22, MMZZ22, MPMD20, NKW22, NW23, NVK+22, PEA20, PZX20, PWXY22, PWH+22, PZZ+23, PCB21, PKSH23, PJR23, PLL+21, PP22c, PV20, PLX24, PC22, QWZ21, RS23a, RE20, SAB+24, SOV21, SL22b, SHL+20, SBVM20, SMAY22, SSG+20, SC22b, SSS22, TFWX22, TTY22, TKK22, TPK20, Toh23, VOL23, WX22, WNZ20, WZTZ21, WDS22, WZWZ23, WTZZ23, WCP23, WCKS24, WDK22, WGU+22, WABK21, WZBV20, WZL21, XLXC20, Xia21, XF21b, XF21a, XDLX21, XH24, XG22, XHLH23, Xu24, YLK20, YGJ21a, Yan21b, YGJ21b, YM21, Yan21c, YRHN22, YWClL22, YTK22, YH22a]. **scheme** [YW22, YKdHC20, YYL20, YWLL21, ZB21a, ZCYS20, ZL21b, ZQC+23, ZWLG23, ZZ23b, ZZW24a, ZJQ+24, ZS24, ZFAA24, ZCQ20b, ZQ20, ZJSX22, ZJSX23, ZZ23c, ZGX24, ZSQ21, ZWQG23, ZG20, ZPS+21, ZZL24, dSdCdMC+24, vdEW24]. **schemes** [AÖR22, ADP22, An21a, ADJ23, AST21, BAT23, BGFB20, BHNS23, Bar21b, BBF20, BG21, BJC23, BKC23, BB20c, BCR22, BD20a, BP21, BDP23b, BPVE24, CQW24, CB24, CBF22, CT22, CLW22, CSW+24, CKT21, sCpLL+22, CWX23, CD23, CSS20, CDX+21, CBBI20, CPGD21, CBRY21a, CBRY21b, CKN22b, CN21, CS21c, CS22, CA22b, CDW23, DhJV+22, Den23, DBD21, DJ20, DSZ20, DWZ23, DHR20, Don23, DGW20, DT20, DT21a, DT21b, DT22c, DVB20, FZQ21, FZQ22a, FZ20a, FSWA22, FSWA23, FOL23, FL23b, GBC+20, GCLM22, GKL21, Gin21, DPI24, GSFH22, GZW20b, GPHAPR+22, GMA23, GMD22, GS21, GLK20, GS20, GFF20, HHK+23, HMV22, HEG23, HRY+22, HHS22, HHSZ24, HCdM23, HL20a, HX21, HSW22, HRWP22, HXX22, HS23, dMKJ+22, Iij21, IK23b, JTW22, JRD22, Kan20, KBCH20, Kem24, KLN20, KZC23, KdMJ+22, KF23, KMF23]. **schemes** [KCX+21, KD20, KD21b, KLX23, KK21, LJW+22, LLCJ23, LFP+21, LCS24, LD20a, LLW20b, LSQ21, LG21, LYZW21, LCR22, LSZ+23a, LLZ23a, LLTY23, LHPS24, LH20, LWZ23, LZ24b, LCN20, LBM20, LW20a, LM20b, LWYY22, LLZ23c, Mar23, MGMV22, MRYS20, MSIM21, MTB22, MD21, MM20, MT21, MAPS20, NFPSSA24, NV22, NME23, NBR22, PCF21, PWK20, PCQL20, PV22, PGTS21, QCD21, QW22, SMSAGG22, SBC20, SEG22, SBL22, SAP22, SSMA21, SFNMF+21, SQSS20, SS22c, SCL20, SZQS23, SN21, TKK22, TT22b, TCS22, TT23, TZ21, TCR+20, TYC23, TYC24, TSTH20, Tso23, Uil20, UY22, Vas23, VLV20, VN21, Ver23, Vev21, VK24, WZSC22, WCB20, WS22, WWLZ21, WHS22, WK24b, XBH+22, XLZ21, XGQ+23, YU22, YD20, YJSX22, YZZ23, YPX24, ZEG20, ZEG21, ZCQ19, ZCQ20a, ZQYS20, ZOWW20, ZX22, ZDT23, ZCCN23, ZXX23, ZZ24, ZZZ20]. **schemes** [ZH21, ZS20, ZR24b]. **Schmidt** [LPL+22]. **Schrödinger** [AB24, AST21, AKKM23, BLF20, BCJM20, BG20a, CLY21, GMB+22, GR21, GLLM22, HHSZ24, JL21a, JPAZ21, JLRZ20, LSZ23b, MCVF22, MWZ23,

RMWS21, Sac22, STEK17, STEK22, SDKL21, Suk23, WWG20, Wan22, WWZZ24a, YWLL21, Zha22]. **Schrödinger/Gross** [AST21]. **Schur** [HV20, RWdBAG23]. **Schwarz** [CHM24, GM23b, LYY20, LC23, LGYK24, LY23]. **scientific** [BSVM23, CHZ+21, EDC+23, PMZ+23, THH22, WSG+24]. **Score** [LWX24]. **Score-based** [LWX24]. **SDE** [AB22]. **SDEs** [CY22a]. **SDIRK** [WZ21b]. **Sea** [MK21, BABD21, CPTR23, CFM22, LGL23a, hSMLS23]. **Sea-ice** [MK21, hSMLS23]. **search** [HL22a, WZ24a]. **search-guided** [WZ24a]. **Second** [CKT21, CDLX23, GPS20, GCL+22, KLB23, LYZW21, LD20b, LCWH23, PCF21, PWbCJ24, PGCC+22, XGCW+20, ZEG20, ZZZ20, ZH21, ZCY24, Abg20, AuIL20, AAKW20, AKKM23, BDL+20, CCWX22a, CC24, CZZ21, CZ20a, CY22b, CLJ+20, CBY23, CGM+23, CX22a, Den23, FGKY22, FGTY23, GKNÖ24, HJ22, HLA22b, HYH24, KS11, KBB21, LL23a, lLTZ20, Mar23, MR23a, MQ20, MKM23, MM24, Mon21, NT20, Nis20c, Nis22b, Oru21, PSL20, PGC24, QZHD23, RSWD21, SY21, SKCM22, SAM23, TPK20, TEA+23, VCNC+21, XHLH23, Yan21c, YYLY22, YH22a, ZHY22, ZL22, aZWY23]. **second-harmonic** [VCNC+21]. **second-kind** [HJ22, KS11, PSL20]. **Second-order** [CKT21, CDLX23, GPS20, KLB23, LD20b, LCWH23, PCF21, PGCC+22, XGCW+20, ZZZ20, ZH21, ZCY24, Abg20, AAKW20, CCWX22a, CZ20a, CY22b, CLJ+20, CBY23, CGM+23, CX22a, FGKY22, FGTY23, HLA22b, HYH24, KBB21, lLTZ20, Mar23, MQ20, MKM23, Nis20c, Nis22b, PGC24, RSWD21, SY21, SKCM22, TEA+23, XHLH23, Yan21c, YH22a, ZHY22, aZWY23]. **second-order-in-time** [AKKM23]. **Secondary** [DS23c, CHS20]. **section** [CCAR22, DC22a]. **sediment** [MACDR24]. **Seebeck** [Kan20]. **sEFVM** [BHVJ22]. **Segel** [HS23, QLY21, WZSC22]. **segmentation** [KTDG20]. **segregated** [FH24, ZZC20]. **segregation** [SS23]. **Seidel** [BEP+20, LXD+20]. **seismic** [DW21, HRMY20, HYH24, LRW21b, MMSW22, WGU+22, XBRL21, YKdHC20]. **seismicity** [ZJ21]. **selected** [TPYX22]. **selection** [ACDV24, BKON23, Tso23, YWClL22]. **selective** [KF23, WBH+24]. **SelectNet** [GYZ21]. **Self** [BLL19, BLL20, CCL22, GYZ21, HRY+22, MBN23, QSZB20, AS20, BCC+24, CS21a, DES23, GRC+22, HL22a, LCC+23b, Mar24, MPSP22, SLWRG21, TPYX22, XDCF21]. **Self-adaptive** [CCL22, MBN23]. **self-adjoint** [AS20]. **Self-adjusting** [HRY+22]. **self-assembly** [BCC+24, LCC+23b]. **self-consistent** [GRC+22, HL22a, Mar24, MPSP22, XDCF21]. **self-diffusion** [DES23]. **self-gravitating** [SLWRG21]. **Self-induced** [BLL19, BLL20]. **Self-paced** [GYZ21]. **Self-similar** [QSZB20, CS21a]. **semantic** [HBF21, ZZK20]. **Semi** [BE20, GKL21, GS23, Poë22, STEK17, STEK22, TZ21, YM21, ZA20, AAH+20, BFG22, BB20a, BBD+20, BZC+22, BGH21, BCR22, BCR24, BP21, BDI+21, BMG+23, BBL23, CBQ21, CCY+20, CZ22b, CGZ23, CBRY21a, CBRY21b, DCGQ20, FZB+23, GQF24, JPAZ21, JLRZ20, KBB21, KSI+23, KEY20, LCG22a, LMZ21b, LL21d, LCC+23a, LCCL23, LBM+23, MACDR24, PK20, DM23b, PP22c, PS22c, QHZ+22, RK21, SV23, SH22, UBT22, WKK24,

XGCW+20, YI23, ZEG21, ZJZK20, ZX22, vGAtTBI24]. **semi-adapted** [YI23]. **Semi-analog** [Poë22, SH22]. **semi-analytical** [KEY20]. **semi-automatic** [BGH21]. **semi-classical** [JLRZ20]. **Semi-conservative** [GS23]. **Semi-discrete** [GKL21, BBL23]. **semi-discretized** [JPAZ21]. **Semi-global** [STEK17, STEK22]. **Semi-implicit** [TZ21, BB20a, BBD+20, BZC+22, BP21, BDI+21, CCY+20, FZB+23, KBB21, KSI+23, LMZ21b, LL21d, LBM+23, MACDR24, PP22c, PS22c, SV23, WKK24, XGCW+20, ZEG21, ZJZK20, ZX22]. **Semi-Lagrangian** [YM21, ZA20, BFG22, BCR22, BCR24, BMG+23, CBQ21, CGZ23, CBRY21a, CBRY21b, DCGQ20, LCG22a, LCC+23a, LCCL23, PK20, DM23b, vGAtTBI24]. **semi-meshless** [GQF24]. **semi-permeable** [QHZ+22]. **semi-resolved** [CZ22b]. **Semi-smooth** [BE20]. **semi-structured** [AAH+20]. **semi-supervised** [RK21]. **semiclassical** [BG20a]. **semiconductor** [LCH20, ZWZL22]. **semiconductors** [Kan20]. **semigeostrophic** [BCM24]. **semigroup** [CW23, LY22a]. **semilinear** [AHWZ20, JLQY21, TTY22, WK21a]. **semismooth** [CYYS22]. **Sensitivity** [FGB+20, KP23a, KP23b, ZB24, Bha20, CHDB23, CBCF20, DLZ23, FJG+20, KCP20, LAMC24, SJGC21, YS22]. **Sensitivity-driven** [FGB+20]. **Sensitivity-enhanced** [KP23b]. **sensor** [ACDV24, KK22a, WTZZ23]. **sensors** [CLGA24, KTDG22, KBC22, RHG22]. **separate** [LLW20a, QCZ22]. **separated** [DJ22, DJ23, DOL23, EGN23, Kho20, ZB24]. **separation** [BJ21, WZ22, YQO20]. **separations** [KKM21]. **September** [Ano20l, Ano21l, Ano21x, Ano22l, Ano22x, Ano23l, Ano23x, Ano20x]. **sequence** [DD21]. **sequences** [GGN+20]. **Sequential** [GR24, LLW20a, LTT21, MTWBT21, FMT23, LTD+21, LTE23, MH22a]. **series** [DS22b, HYZH22, JWH20, Mon21, NPD20, TXH+21]. **Serre** [GKPT22, TGM23, ZZYX20]. **set** [AAM20, BSW+22, BTEK22, BBA22, CSM23, Coc20, CSS24, DKM+20, DPX23, DW21, DFJ20, EdCC+23, HRR21, HCL22, HPS23, HT21b, JGM+22, JFH21, KKY+21, KCX+21, KB22b, LCG22a, LCG22b, LCG23, LZC+23, LTBM23, LCP+24, LHFH20, MMdMB22, PBGB21, SYL23, SYC+23, SDP20, SSTD24, The21, VTC20, XSHH20, XSA+21, YYB23, ZXBS22, ZLG+23, ZY20a, ZLQS24, ZMW23, FFL+23]. **set-based** [KKY+21]. **set-implicit** [CSS24]. **set/embedded** [LPJ+23]. **set/finite** [ZB21a]. **set/front** [LTBM23]. **Set/VOF** [ZOEL20]. **set/volume** [SYL23]. **set/volume-of-fluid/ghost** [SYL23]. **sets** [KM22b, WDL+21a, WGH23]. **setting** [EMS+21, TB21]. **settling** [PC23]. **seven** [PBM23, QWZW23]. **seven-equation** [PBM23, QWZW23]. **seventh** [LWL+23]. **seventh-order** [LWL+23]. **several** [MVK20]. **SGLD** [LMZ23]. **SGMCMC** [LWZ22]. **Shabat** [MCVF22]. **shadowing** [CW21, KP23a]. **Shafranov** [ELSV22]. **Shallow** [DS22a, DVB20, AG21, AMB22a, AR20, Bal20, BGGM21, BP22, BCC+20, CKLZ23, CP22a, CSW+24, CNMB20, CN22, CTCS22, DEN22, DSBFN+20, Don23, DT21b, DFP+21b, GDBFN+20, GdFP+24, GCDT22, DCC+24,

GLWY22, HMV22, HSM20, Hig22, HLL22, HXX22, HXQL23, JH23, KGBT20, KCWZ22, KLZ20, LCL+22b, LM21a, LP23a, Liu20a, Liu21, LL24a, LM20c, MÖR24, NW22, RHR20, RLD24a, SGB+21b, SGT23, SFP+20, SdSPS24, TAWD23, WCB20, YYX21, ZDT23, ZXX23, ZZ23c, ZGX24, ZR24b]. **shallow-flow** [ZR24b]. **Shallow-water** [DS22a, AG21, Bal20, BP22, BCC+20, GCDT22, DCC+24, HMV22, HSM20]. **Sham** [GMB+22, HXX23, TMG20, VGK21, WCKS24, ZNCZ+21, ZH23]. **Shape** [CEW23, DLZ23, DW21, AMG23a, AF24, Bar21a, BPBM23, CGLZ23, GEvWD22, GKA22, GLL20, HF23, MHA23, NSS23, TBG20, VRK+21b, WZ23a, WDK22]. **shape-morphing** [AF24]. **shaped** [PA21, PR20, PAGJ23, QAS20, SWHJ22, ZZW23, ZZW24b]. **shapes** [MSIM21, PTT22, TWY22a, ZQC+23, vdEW24]. **Shared** [DFG+23, RA21]. **Sharp** [BCL+23, AuIL20, ALL22, BL22a, BEB+22, BPG23, BSW+22, BSV22, CSM23, DU20, EdCC+23, JGvR23, KSH22, KBS+21, KWR+23, LCP21b, LCP23, MR22, MMM23, PR20, PJR23, PG20, QLMR24, RKA+23, RSWD21, SRD20, TSM24, VFBD23, XZNZ23, ZQC+23, ZZN22, ZGK+22]. **Sharp-interface** [BCL+23, BL22a, BPG23, BSW+22, DU20, EdCC+23, KSH22, LCP21b, LCP23, TSM24]. **sharpening** [CNC21, LLPL22, LLQ+23]. **Shaw** [CY22b]. **shear** [AP22, CNMB20, Ein24, PWK20]. **shearing** [WNB21]. **sheath** [BBC21, BMG+23]. **sheet** [GH23, HPH+23]. **sheets** [AR22, CLT21, CMPZ22]. **shelf** [IL23]. **shell** [BBKB21, GQF24, Gar20, LLS24a, YYM+22]. **shell-structured** [LLS24a]. **shells** [MJS23]. **shift** [LST24, LKJL22]. **Shifted** [CMNS21, CNB+23, IK23a, TY24, XSA+21]. **Shifting** [MVO+22, LLF23, YRHN22]. **Shock** [CRPB20, KR23, AK22, ATS24, BBB23, BZSF20, Cai21, CF21, CLC24b, CD23, DHM21a, DU20, FL21, FAHA20, FAA20, HRRHG21, HHVM20, HJH+21, HYZ22, HZ22b, HNZ23b, ITK24, JRD22, KK22a, LFA21, LWL+23, LLS20, MLM+21, MGMV22, MDB24, MM20, NZ24, NLZ+22, PB20a, PS22b, PL20, PPB23, RRHH+21, SPZ22, SS22b, SS22c, SS22d, VEC21, ZSP20, ZJSX22]. **shock-associated** [LWL+23]. **shock-boundary** [PPB23]. **shock-capturing** [ITK24, LFA21, PB20a]. **shock-dominated** [BBB23, NZ24]. **shock-fitting** [CRPB20]. **shock-induced** [DU20]. **shock-stable** [AK22, FAA20, HYZ22]. **shock-structure** [NLZ+22]. **shocks** [BSA21, HJ23, HNZ23b, OGG20, PSCK23, RSWD21, Uil20]. **shooting** [FVM22, FVM23]. **short** [KLP22, MM20, Nor24b, PH21, SFDW23, TNF23, XG22]. **short-memory** [XG22]. **short-trajectory** [SFDW23]. **shortening** [SM21a]. **sided** [BBGT21, LZ22b, lLNZ21]. **sides** [HJ22]. **Sign** [FGTY23, YYX21]. **Sign-preserving** [FGTY23, YYX21]. **signature** [CMPZ22]. **signed** [WZ23b]. **similar** [CS21a, QSZB20]. **similarity** [NTSM20]. **Simple** [DG23, LG21, LAS22, SPdF20, BV21, DSZ22, GF21, JJ21, LDLW21, LFY21, LLQ+24, MMZZ22, GOF23]. **simplex** [Bar21a, CLS24b]. **simplices** [GKD23, LD22, MZ20]. **simplicial** [MDB24]. **simplified** [BV20]. **simulate**

[BFG23, HM21b, JDB+23, LYS+22b, PGM22, SDA+21, ZLW+21].
Simulating [BL22a, HPS23, KLS+20, ZMW23, CBBI20, DS20, EM20, EPL21, FCTZ24, FBS23, JGM+22, JLCT22, KCT+23, KD21a, LS22, LZT+23, LDM+21, LZX+22a, LLF23, LFL+22, MMdMB22, OB20, OL20, PC23, PBGB21, SLBH23, SS22a, SZKY24, WLZ24a, XSHH20, YHC+22, YKdHC20, ZYL23a, ZMZY23]. **Simulation**
[AR22, MMM23, RHD+24, RSWD21, SXZ+23, TAWD23, VSB+22, WCA+20, AGR23, AT20, ACHG+21, ACML20a, ACML20b, AMB22b, BBC21, BEB+22, BSW24, BBV23, BDWC23, BKMM24, BGSP22, BSV22, BSZ+23, Bre20, BTL23, CHMP24, CPX22, CFSH20, CPD+24, CB23, CC22a, CG23, CLW+24, CZL20, CW22b, CDL+22, CKLM+23, CKN22a, CCAR22, CV23, CL23b, DZJ22, DU20, DVS22, DDVO21, DSS+22, DSS20, DG23, DGS20, DEB21, EGTC+21, Ein24, EASA23, FMS21, FBG20, FH23, GRC+22, GPSMH20, GDB23, GDF21, HYSS22, HKRS23, HYP24, HZ22b, HJQ+23, IW23, IKP22, Jai22a, JZK24, JW21, JLLY24, KOM+22, KFSM21, KSK+24, KKSY21, KVQE21, KH21b, KT24, KS21d, LCP21a, LFP+21, LMS23, LTD+21, LHC22, LTE23, LLD20, LYY20, LYS22a, LHXZ22, LW22a, LXSF22, LY20a, LGL23b, LSZY20, LSC+20c, LMZ21b, LR22, LZC+23, LZZW24, LHL+22, LCJ+20b, LWZ+21, MXL+24, MKHI20]. **simulation**
[MSK+22, MA21, MFTZ20, MMSW22, MPZ24, MBE21, MTT+23, MHWY21, MKM23, MM24, MD20b, NIT21, NMN23, ND20, Nic22, NWM21, NVK+22, OGVM22, OLP23, PSJ23, Pan20a, DAGL23, PLL+21, PLKM22, PPB23, PLM+23b, QCWC23, QLMR24, RMM+22, RKRW20, RKVV20, RGLN22, Sab20, SH23a, SGB+21a, SS23, SGPW21, SDKL21, SYL23, SRD20, SAL+20, SOG+22, SMF20, SS22b, SS22d, SOBP22, TFCH22, TZ20, TTSP21, TUCT24, TLB20, VBB+23, Vre17, Vre21a, WGY20, WL20, WYHL21, WNB21, WF23, WLKR23, WCP23, WA23, WGU+22, WWN+22, WBH+24, XKZ21, XBD+20, XHS23, XMZ+23, XZNZ23, YWN20, YZSD21, YYJ+23, YYM+22, ZXBS22, ZSM22, ZYL+23b, ZZW24a, ZR20, ZWS+24, ZZY+20, ZB24, ZZX20, ZPS+21, ZF20, ZBP+24, dKSA21, dSLdA+22, vNGB22, RBBD22].
simulation-based [XKZ21]. **Simulations**
[HSK+21, ARC22, ADP22, AWP23, AK22, AP22, BAT23, BLL19, BLL20, BZ21, BBF20, BV20, BSVL24, BZ23, BPG23, BW20, BD20b, BMG+23, BDB21, BPJ22, BBW+21, CHS20, CMGGS23, CDT22a, CCM+22, CDJM21, CCN21, CGZ23, CYHY23, CI21a, CI21b, CLP22, CSMH24, CFGJ23, CBC+23, CPBB21, CA22b, DS23a, DC22b, DTB20, DFW22, DGW22, EC20, Ere22, EAK20, EFSH21, FSWA23, FSB+20, FGL+22, GDJ24, GHNS21, HRG+23, HR23, HZTN21, HHL20, HL22b, HGB20, HT20, HL20c, HB21, HTDL24, JTK22, KSS21, KBSF22, KL22, KS24b, KSK21, KD20, LM21a, LWL22, LSC20b, Li21, LMG+21, LWWH23, LFW23, LCP21b, LKG+20, LMHL21, LCDS23, MZI+23, MSWH22, MN20, MM21c, MM22, MMYT23, MRBS22, NNL+20, NFA21, NKT21, NPL+24, OLS21, PEA20, PHHJ22, PBJ23, PRPK23, PBO20, QAS20, RR22, RE20, SGMT20, SGM21].
simulations [SCB20, SYC+23, SBJ+23, SC22d, SI22, SLOZ21b, TCA21,

TJ22, TM23, TVL+22, VLC+20, VdGP20, WX22, WLW+20, WY22b, XGCW+20, YM21, YA21, YJP23, YKH24, ZNK23, ZOG22, ZGLL20, ZL21a, ZWZL22, ZJQ+24, ZJSX23, ZBY+23, ZLC+20, ZO21, Svä22]. **Simulator** [KTBP20, LZC+20, YZK23]. **Simulator-free** [KTBP20]. **Simultaneous** [SKT20, WZ21a, ZC22b, ZC22c, SZ21].
Simultaneous-approximation-term [SKT20]. **simultaneously** [CHZ22]. **SINDy** [MB21]. **sine** [WWZ20]. **Single** [GWC+22, HPA22, BDB21, CSCL20, CDX+21, CdS22, FS21, HKRS23, LL21a, LZX+22b, LMPT24, MS20a, MBM+22, XC23a, XZRW21, XHY23, ZW22, dSdCdMC+24]. **single-** [BDB21, CdS22, XZRW21, ZW22]. **Single-cone** [HPA22]. **single-excitation** [HKRS23]. **single-field** [MS20a]. **single-layer** [LZX+22b, MBM+22]. **single-phase** [CSCL20, FS21, XHY23, dSdCdMC+24]. **Single-stage** [GWC+22]. **single-step** [LL21a]. **single-temperature** [LMPT24]. **singular** [ACD23, CCPS23, CY22a, CLT21, DWWZ21, FM22, GCVI22, GP23, GW20, HJ22, HBF22, IRT22, LCL+22b, lLNZ21, Liu23, MH22a, RBPRST20, WZ23b, ZXY22]. **singularities** [BNP+22, Sem21, ZDW22]. **Singularity** [LP23b]. **singularly** [CZ22a, CHT20, GHNS21]. **sink** [KAC22]. **SISC** [DSA23]. **Sitter** [MPMD20]. **situ}** [AMB22b, ZSY24]. **six** [ARGK22]. **six-dimensional** [ARGK22]. **Sixth** [FHM24, MCVF22]. **Sixth-order** [FHM24, MCVF22]. **size** [SCL20, Xie22, XL24]. **sizes** [CDJM21]. **skeleton** [DAGL23]. **sketching** [HB21]. **skew** [BCC+20, CDL21, Nor22b]. **skew-symmetric** [BCC+20, Nor22b]. **skewness** [Nis20a]. **slab** [FLZ20, MBBV22]. **SLAU2** [AK22]. **slender** [MB24, MBM+22, TF20]. **SLIC** [ZA20]. **slice** [EBC+22]. **slide** [WBN21]. **sliding** [Gao22, LHC22, XMY22, ZL21a]. **sliding-mesh** [Gao22]. **slightly** [LCWH23]. **slip** [BVRS22, CLB23, GS22, GF21, NVK+22, ZJ21]. **slippery** [FS23a]. **slit** [PLM23a]. **slope** [YWClL22]. **Slower** [AFMP24]. **small** [GLJB20, Par22, VEC21, WDL+21a]. **small-scale** [WDL+21a]. **Smoluchowski** [Osi20, Osi24]. **Smoluchowski-class** [Osi24]. **Smooth** [HSS21, JW21, BE20, CLT21, HJ22, HP22a, QG21, RS23a, Ree23, Ste22, YP24]. **Smoothed** [BHVJ22, YKLL21, BOB21b, BOB21a, BKMC21, BTL23, CLB23, FGZ20, GLF23, He22, LMZ+21a, LJK+24, OYK+22, SDA+21, ZRH20, ZZZH23, ZXD22, ZAA23, BZC+22, FQSW23, HP21a, KEY20, LZPM22, LFL+22]. **smoother** [SMV22]. **smoothing** [CM20, CLT21, CMS23]. **smoothness** [FPT20, Vev21, WWZ20, WWLZ21, ZWQG23, PTZ+24].
Smoothness-Increasing [PTZ+24]. **Sn** [GHY22a]. **snapping** [SB23]. **snapshots** [YKH24]. **Sobolev** [Kar22]. **sodium** [FSDB20]. **soft** [BPG21, XLHB22]. **solar** [ACML20a, ACML20b, IK23a, MFG22]. **solid** [AAM20, CLB23, DDVO21, Dup21, FTP20, HRR21, HVB21, HBBN24, HLA22a, IK23b, JLCT22, LZT+23, LQXM22, LP23b, PG20, QERT20, RDAB23, YLK23]. **solid-liquid** [LZT+23]. **solid-state** [Dup21]. **solid-wall** [IK23b]. **solidification** [BPG23, BTEK22, JTK22, LPJ+23, XZNZ23]. **solidification-melt** [LPJ+23]. **solids** [AD21, BB20b, HLA20a, JAW+23].

solitary [SZKY24]. **solubility** [LCCM22]. **soluble** [SLBH23, ZKY+20]. **solute** [LZC+23]. **Solution** [AB24, JHJ20, PKG20, WZBV20, ASG+23, ASS21, ARR21, BB21, BEP+20, CCPS21, CYS22, CCCH23, DT22b, EdLCCCO24, EJ23b, FML21, GHY22a, Gar20, HKKS21, HA21, HRG20, JWH20, KV23a, Kar22, KTBP20, KLZ23, LPL+22, LLM20, LCN20, MZI+23, MRG21, MBM+23, MBBV22, MS20b, MPMD20, NVPP23, Oru21, Osi20, PM22a, Per23, PA20, SH23b, SHS+20, Sel22, Sem21, SRV21, SBVW20, Tlu22, TBD+20, Vab23, VRK21a, WMTQ20, XZ22, XF21c, YCH21, YZZZ22, YL24b, ZZML20, ZLL23]. **solution-adaptive** [LCN20]. **solutions** [ARB+21, AF24, AK21, BCM24, BZ20, CE21, CW21, CS21a, DM21, DZ23, EGN23, FMJ21, FCBM22, Gar21, GCDT22, Gin21, GLT+20, GQ22, Hac21, HHVM20, HJH+21, HBF21, JL21a, KNT22, LJH23, LC22, LP23b, MHW21, PB20a, RWY21, Ste22, SZW+20, Svä22, TRC22, TGS+22, ZSY24, ZHH+24]. **solvability** [LP20b, ZCY24]. **solvable** [Che20, FZQ22b]. **solvation** [DWZ23]. **solve** [BBP24, GHD24, OWHN22, PEL23, RA21, TWY+22b, WWZZ24b]. **solved** [YH22b, ZP20]. **solvent** [LZC+23]. **Solver** [BLK+23, ASG+23, AMB22a, ARGK22, ATCS20, Bal20, BRZ+23, BDTU24, BDWC23, BDL+20, BTKP24, BG20c, Cai21, CSCL20, CDT22a, CSM20, CS21b, CTG23, CLJ+20, CQA21, CKPP24, CCN23, DDVO21, Der23, EEG22, FAA20, Gao22, GRT18, GRT21, GB22b, GPSMH20, GT23, GDL23, GLCS23, GA24, HBFB20, HM21a, HKS20, HTL21, HP22a, HABG23, HW23, JTT23, JP23, JBF21, KM22b, KML23, KS21c, KCCR22, KAZS23, KCD+23, LCH20, LLSX23, LVK+22, LLW20a, LL22, LZS22b, LW22a, LZ22b, LHM20, LSZY20, LSC+20c, LFW23, LLD+22, LMPT24, MXL+24, MHLR22, MTO21, MOBR22, MBE21, MM21b, MRZ21, NPP24, Nis20b, Nis21, OGVM20, OBB22, PWH+22, PBN+21, Puk20, RMA20, RS20b, RBPRST20, RAB23, RB22, RAZA21, RE22, SLF23a, SL22a, SAL+20, SMW+22, SACT21, SH22, TTY22, TBM22, TSP22, TSM24, UBT22, VMO21]. **solver** [WKK24, WDS22, WGS23, WLL+23, WC23, XJN+20, XC20, XHX22, XC23a, YLW21, YA21, YFLL21, YM20, ZQS+21, ZQL+22, ZO21, ZGK+22, dSLdA+22, vGAtTBI24, vHP22]. **solvers** [Cap23, CSA21, CC22b, FH24, GMRS20, DPI24, GMA23, GKA22, HP23, HPPZ20, KBCH20, KS22c, KS22b, KS23, Kem23, LKM22, LLS20, OPHY23, PP22a, PK23, QSZB20, RUG20, RHR20, RHC+24, SGMT20, SGB+21b, SPF21, Ser23, hSMLS23, TKGB23, WHN+20, WH22a, dLF23]. **solves** [TR21]. **Solving** [AL21, BG20b, CHOS21, CPK22, FY20, GZ21, GWZ22, HLZ20, HJ22, HXQL23, MVK20, MFG22, PZ21, PMACG21, WCC23, ZLS22, ADK+21, ABÁFTO23, BRT22, Bat20b, BAK22, BLM22, CCLL20, CCE+22, CLDC20, CDX22, Chi23, CEM20, DCGQ20, DSZ22, EBC+22, EDEV23, EFO19, EFO20, FZ20b, GSW21, GSOM23, GDL23, GKPT22, GDB24, GAB22b, GYWG23, HNS20, HLA20a, HSS21, HRWP22, HYH24, JL23, KKPB20, KNS21, LSS20, LM21b, LCR22, LZY22a, LT22b, LMZ23, LFT+20, LOLS23, LMUHR22, LMK21, LL24b, LpW21, LLZ23c, LZCC22, MHW22,

MY23, MM23, NCQ22, OSL22, OGG20, PKC22, PWX24, PHX23, PK20, PBF24, QG21, QZZ+24, RZ23, Sab20, SH23a, SB23, SAP22, SY21, TTY22, TWY23, TOB+24, TC23, UHZ+24, VVL21, VMBS20, WWG20, WSAZ22, WZWZ23, WZ24a, WL22, Xie22, YJH23, YAX20, YNT20, ZA20, ZGLL20, ZWZL22, ZC23, ZZZG23, ZHH+24]. **solving** [ZL22]. **some** [CSASS21, DM21, FBCD22, TPPA22, YL21b]. **Sommerfeld** [KS21b]. **SONets** [JL23]. **sonic** [AG21, CWX23, YWN20, YI23]. **sorption** [ACR23]. **sound** [AMM+20b, PCD23, TWY+22b]. **source** [BCIR22, CGLZ23, Don23, ER22, FZ21, GBLT20, HLB20, JL21a, KTDG22, KHS20, RtTBI20, SHM23b, TWY+22b, WHN+20, WZZ23, YS22, ZLL23, ZH20]. **sources** [Ara20, ADM+21, BS20, KSHJ20, LCL+22b, LLS24a, LRW21b, WGB22]. **Space** [BBQ+21, CBA+21, FRW+24, KSW22, Mis23, PZ20, TCR+20, dZBDMC24, An21a, AMM20a, BDP23a, BTEK22, CCJW24, CCWX22b, DGW20, EDC+23, EMS+21, GJLD20, HPA22, HLB20, HCF+23, HR20, HCL20, KSTT22, LCH20, LDM+21, Liu20b, LT23, LN21b, LY22c, MFS+22, MPMD20, NZ24, OGVM20, PDM23, PS22b, PTT24, PM22b, PPHO22, SPGG23, TZ24, VRK21a, WX20, XLXC20, XLLH21, XY20a, YI23, YLNT20, YWLL21, YZZ24, YZZZ22, ZMQ24, ZJZK20, ZLW22b, ZLW23, BDFT23]. **Space-dependent** [dZBDMC24]. **space-fractional** [DGW20, YWLL21, YZZZ22, ZJZK20]. **Space-homogeneous** [PZ20]. **Space-time** [BBQ+21, CBA+21, FRW+24, KSW22, Mis23, TCR+20, AMM20a, BDP23a, BTEK22, CCJW24, GJLD20, HR20, LY22c, MPMD20, NZ24, PM22b, SPGG23, TZ24, VRK21a]. **space/time** [HVD23]. **spaces** [AFGLM20, CLS24b, FBCD22, GKNÖ23, GKNÖ24, HW20a]. **spacetimes** [BL21a]. **Spalart** [LMFV22a, LMFV22b]. **Spalart-Allmaras** [LMFV22a]. **spanwise** [FWNT21]. **spanwise-averaged** [FWNT21]. **Sparse** [AR21, MY23, RR21a, BPJ22, BKON23, CLC24a, CLGA24, DFG+23, ELSV22, FGB+20, GHTC21, GC23, HBF21, KTDG22, KKN20, LSL20, PBJ23, PRPK23, SKP+21, SSW22, TJC21, WDL21c, WCC23, WLZ+24b, XZW21, XD22, ZXLH23, TPSN20]. **sparsely** [WLPK20]. **sparsity** [HR22]. **sparsity-constrained** [HR22]. **Spatial** [LKEM21, MAPS20, XH24, ABÁFTO23, BL20, FOL23, JTZ22, LP21, LLW20a, LZ22a, LM21c, Mon21, TRC22, XKZ21, XBRL21, YKLL21, ZLW22b, ZLW23]. **Spatial-temporal** [XH24, JTZ22, XKZ21]. **Spatially** [WZ23b, BBB23, BB23b, FSW22, LSL20, YSC23]. **spatially-filtered** [BBB23, BB23b]. **spatially-homogeneous** [YSC23]. **spatio** [BTT24, HL20c, KLF22, LSZ+23a, ZB21c]. **spatio-parameter** [BTT24]. **spatio-temporal** [HL20c, KLF22, LSZ+23a, ZB21c]. **spatiotemporal** [FCTZ24, KH21a, RRL+23]. **Special** [EFS+20, ZX20, BMBM24, CKT21, CW22a, DT20, DT21a, DT22b, DT22c]. **species** [ATCS20, CSMH24, DS23a, DFJ22, FN22, HHK+23, LLWX22, RWDG22, XYL22]. **specific** [LVK+22, LC23, QCWC23, WK20]. **spectra** [KKL+23]. **Spectral** [CMSS21, GB22a, GT23, HB21, LN21a, LN21b, MDB24, MFS+22, NdlLPL21,

Sac22, SS22b, VVRWT21, YJH23, YNT20, ZZ23a, ARR23, AS20, BCJM20, BCF22, CMRR21, DLL22, DMC+23, DW22, EDLF20, EPL21, EPL22, FDP20, FBS23, FHT21, Gao22, GFG22, GLLM22, GMJ24, GC23, HBFB20, HKJ21, HLM+20, HP23, HQ20, HPPZ20, KS21b, KD21b, LP20a, LRW21a, LLWX22, LC24, LXCZ24, MÖR24, MGMV22, MBE21, MAPS20, NS23, Nic22, PDM23, Pan20a, PP24, PKL+21, PLKM22, RMA20, RRFK+21, SRH21, SHS+20, SW22, SSPV20, SS22c, Sti20, TH23, TNF23, TWY+22b, VMBS20, WMS21, WWG20, Wan23, WWZZ24a, WD23, XSC21, XHLH23, Yua21, ZB21b, ZWY21, ZH23, ZJZK20, ZFG21, ZMG+22, SS22d, VPDD22]. **spectral-element** [XHLH23]. **spectral-Galerkin** [Yua21]. **spectral/** [MAPS20]. **Spectral/hp** [MFS+22]. **Spectrally** [Ste22, MR23b]. **specular** [RB24]. **speed** [Bar21b, DLM+23, HBFB20, HZ22b, KS24b, LTK+22, NKA+20, PTZ+24, TPK20, TSM24, ZBY+23]. **speed-up** [LTK+22]. **speeds** [DEvW20]. **SPEM** [ZSL+23]. **SPH** [HZHL22, LBSR20, LKJL22, NFL+21a, NFL+21b, PRO22, REC+22, RZH20, SLOZ21b, SLOZ21a, SPAC23, VOL23, WKKB21, YKLL21, YRHN22, YJK24, ZRH21, ZYL23a, ZMZY23, ZBY+23, ZSY21, ZZH22]. **SPH-ASR** [YKLL21]. **SPH-MLS** [REC+22]. **sphere** [Bal20, BP22, CLXS23, CVM23, EJV22, GCDT22, GLWY22, HT21a, HSM20, tH22, LP20a, SGT23, SdSPS24, TN23, Vre20, Vre21b]. **spheres** [Vre17, Vre21a]. **spherical** [AR20, BR23, BFG23, CMS+22a, DW20a, Gar20, Gar21, GFF20, LS22, LLS24a, LHM20, MJS23, RLD24a, RGLN22, SL20a, SOV21, SBC20, YYM+22, ZQC+23]. **spheroidal** [SK23a]. **spike** [KSST21]. **spin** [KVQE21]. **SPINN** [RR21a]. **spinor** [CL21]. **spline** [BBF20, FBCD22, GFF20, LBSR20, MMKM24]. **spline-based** [GFF20]. **splines** [BMG+23, FBCD22, HP22a, KV23a]. **Split** [KSBG20, CC24, CND22, GMRS20, GU20, HRRHG21, KK22b, Lak20, LJW+22, Li20, MKB20, MTW23, MD20b, RRG24, SDKL21, SBL22, SKTK21, WZ24b, ZDC20]. **split-form** [RRG24]. **split-step** [Lak20, Li20, SDKL21, ZDC20]. **splitting** [ARB+21, AAKW20, BCWD21, BL20, BGSP22, BTKP24, CQA21, DS22b, EPV21, EOP20, EK21, GPHAPR+22, HTLY23, LLSX23, LLCJ23, LQX22b, LQX22a, LZ20a, LWW21, Liu23, LW23, MHA23, OGVM22, Sac22, SL22b, Tow20, WWZZ24a, XLZ21, XG22, XMZ+23, Yin21, ZWY21, ZZ23a, ZOG21b, ZG24, ZZH22]. **splitting-based** [GPHAPR+22]. **splittings** [BS22a, BG20a]. **SPOD** [LMS+22]. **spray** [TTSP21]. **spreading** [HRR21]. **Spurious** [Gin21, AWB+20, CE21, DNO23, IKP22, JP22, KB24, SKTK21, XLS22]. **SQP** [FVM23]. **SQP-based** [FVM23]. **square** [GLF23, LSZY20, YK22]. **square-based** [LSZY20]. **Squares** [GTKA20, GKA22, LKEM21, BBGT21, CCLL20, CCL21, CZCY23, DVS22, GHD24, HWDM22, JRY+20, LCWJ20, PC21a, PR23, SMSAGG22, TB21, WGSX23, ZC22b, ZC22c]. **SRS** [WNZ20]. **SSDC** [PBN+21]. **stabilisation** [MAPS20]. **stabilised** [DPX23, NYY22, SPF21]. **Stability** [CS22, KD21b, LQX22b, LQX22a, PCQL20, RV20, RC20b, TCS22, BCF22, CMR21, CS24b, CN21, DZJ22, DBC+22, DS23c, FDH+24, GS22, GFY20, GLT+20, HBFB20, HP22b, IK23b,

KBCH20, LW22b, Mar23, MD20c, OY21, RUG20, RWBS21, RLD24a, SW23, SPGG23, WMTQ20, ZHY22, ZLL23, aZWY23]. **Stability-enhanced** [PCQL20]. **stabilization** [CMS+22b, DHM21a, GQR23, HKW24, KSK+24, KMF23, KV23d, TT22a, XBD+20]. **stabilize** [ZOG22]. **Stabilized** [LBT+23, Wan23, AGR23, AC23, CdS22, EJ23b, FGF22, FCWT22, GCP24, LT20b, TCK+22, WT24, WGY+21, YG24, Yan21b, ZJZK20]. **stabilized-Invariant** [Yan21b]. **Stable** [BFM21, BWBT24, BL21b, Gla21, GCSH22, LCDS23, MBAG21, van22, Abg20, AD21, AP20, AK22, BBC21, BGH20, BKC23, BKY21, BWG+20, BDMP22, BBCD22, BGQ+23, CMR21, Cha20, CT22, CLW22, CSW+24, CWW20, CWL+23, CSY20, CND22, CDN+22, CMRR21, DMN22, DWWZ21, DW20b, DMC+23, DT20, DT21a, DT21b, DT22c, DVB20, EWN+23, FCWS22, FQSW23, FSB+20, FAA20, GCLM22, GHHR22, Gar20, GMSLC24, GZW20b, GMD22, DCC+24, HZHL22, HRRHG21, HX21, HYZ22, HSS21, HSW22, Jai22b, JRD22, KLS+20, KWDS22, KWCS23, LBSR20, LS22, LN22, LCS22, LB21, LDLW21, LLZ23b, LNYD20, LCT23, LC24, LBM20, Liu20b, LMFV22a, LMFV22b, LsCxL+20, MMS24, MWS24, MRK+20a, MRK+20b, MRK+20c, MGMV22, MPSP22, NT20, Nor22b, NMR+21, NMR+22, PHP21, PWL+23, PBN+21, PRPK23, QWZ21, QW22, RWH+24, Ren21, RBD+21, RRHH+21, RRHCG23, San20, Sar21b]. **stable** [SHL+20, SN21, Svä21, TT22b, TT23, TAWD23, UY22, VRK21a, VPDD22, WTX+21, WH22b, WZSC22, WCKS24, WKW+22, WLZ21, WK24b, YU22, YD20, Yan21b, Yan21c, YTWK23, YYD+22, ZEG21, ZY20b, ZOWW20, ZDT23, ZZW24a, ZR20, ZH21, ZCY24, ZZL24]. **stage** [BJ21, CCW20, DL24, FLW20a, GWC+22, KS22b, LLQ+23, LC22, NFPSSA24, SL22c, SL23, SZKY24, WL24a, WZ21b, ZLW+22a]. **staggered** [BBD+20, BDF+23, BDI+21, CS23, DNO23, DLYZ23, DVB20, FZB+23, GS21, KKS21a, KKS21b, LPP+20, LL21b, LD20a, LP23a, OP20, PKC22, QPW21, SWG+20, SGW+23, SGT23, Vre17, Vre21a, WY22b, XH24, XZC21, Xu24, ZLW22b]. **staggered-grid** [SWG+20, SGW+23, Xu24, ZLW22b]. **staggered-projection** [LL21b]. **standard** [BTKP24, HPRW20, SC22c]. **standpoint** [AFMP24]. **start** [ZHRB23]. **State** [KBC22, MOBR22, AHG21, AMK+21, BG21, CL20a, CKT21, CGM+23, Dup21, GSW21, GTDB22, GAB+22a, HLB20, HKS20, KM22b, LYY20, LZZ21a, LZS22a, LRAQ22, Liu20a, LHW+23, MCGN24, PSRM20, RA21, SAB+24, SZW+20, WX22, WDS22, Wan22, ZCH22]. **state-resolved** [LHW+23]. **state-space** [HLB20]. **states** [AFL22, CL21, CDLX23, DGL+23, GLJB20, HKRS23, LXY23b, NKT21, Nis20d]. **static** [AFGLM20, BTCV22, ER22, GC23, LAT+22]. **statically** [RRFK+21]. **Stationary** [CL20a, CSA21, EPV21, LY22c, MP21, NG22, QH23, XS22a, XS23]. **statistical** [BT22, DCSG22, QH23, WKA+20]. **statistical-stochastic** [QH23]. **statistically** [CFM22]. **statistics** [BCJM20, CDJM21, Che20, GKA22, KAC22, ST24, ZTK23].

statistics-informed [ZTK23]. **Steady** [JP22, YPX24, BSVL24, GSW21, GLK20, JLL22, KM22b, LZZ21a, LRAQ22, Liu20a, LFZ21, MD20c, PSRM20, RA21, SZW+20, WX22, YZSD21, ZCCN23, ZG20]. **steady-state** [GSW21, KM22b, PSRM20, SZW+20, WX22]. **steady-state-preserving** [Liu20a]. **steepest** [GHH24]. **steepness** [HRY+22, NZRH24]. **steepness-adjustable** [NZRH24]. **steepness-based** [HRY+22]. **Stefan** [BEB+22, FM20, FLS23, HSS21, MRL+23, SSTD24, WP21]. **Stein** [PT23a]. **Stein-based** [PT23a]. **Steklov** [AIN20]. **Steklov-Neumann** [AIN20]. **stella** [SOBP22]. **stellar** [BRZ+23]. **stellarator** [GWC+22, LCPW23, VCPGR20]. **stellarators** [MND+20]. **Stencil** [Tso23, AD20, CKPP24, Den23, LCN24, XBRL21]. **stencil-adaptive** [LCN24]. **stencils** [ID20]. **stents** [CGL+23]. **step** [AN21b, BHNS23, Bel24, CC22b, DEvW22, HTV+22, JZSX24, Lak20, LL21a, Li20, LD20b, LKG+20, LHFH20, PCB21, PCB22, PSRM20, SDKL21, SYAM23, SW23, WH24, YWClL22, ZDC20]. **stepping** [ARC22, CP22a, DGGL22, DL24, FH23, GLLM22, KS22a, KV23a, KSI+23, LJW+22, LWF23, LLTY23, lLTZ20, NAZ22, NFB23, Sev21, SSMA21, SP22, VLV20, WGU+22, ZRH20, ZY20b, ZLQS24]. **steps** [LOL22]. **steric** [DWZ23, QWZ21]. **stiff** [AD20, BFM21, BB20a, CMR21, GCVI22, NV22, SMR22, VN21]. **stiffness** [DE22]. **stir** [CFS+22]. **Stochastic** [AKWY20, CKLM+23, DYGC22, EH22b, FGK22, GFPO22, Mar24, MPZ23, OPM22, Sab20, SRM24, SQSS20, WK21a, ACHG+21, ABY23, BTZ22, BGH21, BJR22, CGC21, CL20b, CL20c, CHF21, Che23a, CFGJ23, CCHS20b, DEN22, DFJ22, ELSV22, EPL21, FGB+20, FZLL20, FJ21, FHJ22, FCTZ24, GCMV23, GWZ22, HHS22, HHLS22, HHSZ24, KTBP20, KJ24, KKSY21, KMF20, LSS20, LJ20, LPZ22, LZJ+24, MCI23, PZ20, PB20b, QH23, RMM+22, SSK20, SC23, SP22, SSX22, TC23, WMS21, WDL+21a, WDL21b, WDL21c, WCF22, WPBS22, XF21b, XF21a, ZXMK21, ZSM22, ZMG+22, ZJ23, ZTK23]. **stochastic-extended** [ACHG+21]. **stoichiometry** [SvDtTB21]. **Stokes** [FQSW23, GHHR22, HKMR20, LMFV22a, MRK+20b, NYY22, NMR+22, PSL20, QHLL20, Vre21b, ADK+21, AKWY20, AK21, BT23, Bal21, BCIT22, BDP23a, BHK+22, BP21, BSZ+23, BST23, BT24, BSK+23, Cap23, CB24, CZZ21, CLW22, CZ20a, CLDC20, CJW22, CKLM+23, CQA21, CK21, CPK22, CS23, Coc20, DY22a, DD22b, DS20, DLYZ23, DLY22, DS23c, DGW22, EJ23b, FZQ21, FZQ22a, FH24, FHWK21, Fei23, FB23, FWNT21, GGCvR22, GNZ23, GQR23, GS22, GCL+22, HBFB20, HMO+20, HR20, HRWP22, HS23, JGvR23, JCLK21, JKJ20, JK20, KS22c, KS22b, KS23, KS11, KMR23, KLS+20, KSI+23, KKPB20, KS24a, LN21a, LN22, LHC22, LG20, LD20a, Li20, LCSZ21, LLNL21, LLO22b, LWF23, LGZC24, LNYD20, LCT23, LFT+20, LZ23, LC23, LMFV22b, LP20b, MRK+20a, MHLR22, MOBR22, MBE21, MDF21, MHY20, NAZ22, NGZD22, OY21, OBB22, PCB21]. **Stokes** [PCB22, RUG20, RS23b, RRFK+21, Sel22, SP22, SMLM23, Tlu22, UY22, Vre20, WZTZ21, WJHS23, WZ24b, WZBV20, WHS22, YU22, YCM+20,

YLK20, YA21, ZML20, ZL21b, ZPGR22, ZLW+22a, ZH21, ZT23, aKAK20, dLF23]. **Stokes-cloud** [CKLM+23]. **Stokes-Korteweg** [DD22b, KMR23]. **Stokes/Cahn** [MRK+20b, NMR+22]. **Stokesian** [OSZ21]. **storage** [GMA23]. **strain** [FB22, LBC23, ZJ21]. **Strang** [LQX22b, LQX22a]. **strategies**
[ADM22, BBDT21, KRL21, KR22, KWF20, LAS22, PJZ+23, SYAM23]. **strategy** [ABDD20, CZLC20, CMS23, CBC+23, ESJ23, FO22, FLW+23, GDB24, GYWG23, KD21a, LSS20, LCT23, MLCM21, QH23, RA23, Sha21, SFGNMGN22, Suk23, SBVW20, TKGB23, TRC22, ZYY+24, ZZH22]. **stratified** [TT20]. **stream** [ZZZH23]. **streamer** [LZC+20, Mar24, SW22]. **streamline** [Bat20a]. **streams** [IK23a]. **strength**
[DYGC22, FMT23, KLA23]. **strengths** [KAC22]. **stress**
[BSCG22, CDL21, EFO19, EFO20, NFB23, PBJ+22, ZAA23]. **stress-free** [CDL21]. **stresses** [HPW21a]. **stretching** [PO21, SL20a]. **strike** [MN20]. **stripping** [FSW22]. **Strong**
[FDP20, CEW23, CHMP24, GS22, LDM+21, PSCK23]. **Strongly**
[ZHPZ21, CWW20, FR23, NG22, SLOZ21b, SLOZ21a].
strongly-compressible [SLOZ21b, SLOZ21a]. **structural**
[ABBG23, JLXZ24, LQXM22, NDH20, ZHPZ21]. **structurally**
[SFP+20, WH22a]. **Structure**
[DWZ20, GNZ23, GWY21, HBG+21, HPRW20, LHF23, QXYZ23, WT24, ZXX23, AÖR22, AHH+24, ASW21, ASS21, AKKM23, BCG23, BFI22, BPG21, BF24, BDI+21, BDP23b, BBKB21, BRS22, BGQ+23, BFST23, Cai21, CFJF23, CMSS21, CPGD20, DLZZ21, Dup21, FW24, FADJ20, GQF23, HLA20a, HSXZ21, He22, HPW21b, HGZ23, HHSZ24, HLXZ21, KBG23, KBS+21, KWR+23, KZC23, KS21c, LLCJ23, LLD20, LSW20, LSC20b, LOL22, LRW21b, LT20b, LWW21, LCF+23, MWY+20, MJ23, NG22, NLZ+22, NZXM21, PBVC22, QKG21, RMJ23, RB21, SX20, SZQS23, TF20, VSS21, WCF+21, WLL+23, XF23, YH22a, YK20a, YWLL21, ZNK23, ZRH21, ZSL+23, ZZY+20].
Structure-preserving [DWZ20, GNZ23, HBG+21, HPRW20, LHF23, QXYZ23, ZXX23, AHH+24, AKKM23, BDI+21, BDP23b, BRS22, HPW21b, HHSZ24, KZC23, KS21c, LLCJ23, LWW21, SX20, SZQS23, XF23, ZNK23].
structured [AAH+20, APR22, LLS24a, LLQ+24, MRYS20, MSWH22, NGZD22, RAZA21, vdEW24]. **structures** [BBKB21, BFST23, CCER20, DAJ22, DYGC22, FCP21, GZW20a, GXY24, HYSS22, HRY+22, HPX23, IT22, LZLZ21, LR23, MMSW22, NZXM21, QSZB20, TF20, YK20a, YXL22].
studies [AFF+23, KSW22, QWZ+23, SES21, SNW23]. **Study**
[AMGCL21, Lak20, AMK+21, BPS23, BJL21, CPGD20, DS21, FCY+20, GB22a, LTK+22, MHW22, NMN23, POS+20, Par22, RWY21, SGLP23, TZ20, TGM23, VGG23, YJK24, ZQS+21, ZQL+22]. **studying** [GM23b, MH22b].
Sub [HdB20, JL23, MH22b, MCBA20, OLP23, PS22b, QJQW22, ZB21b].
sub-cell [ZB21b]. **sub-cooled** [MCBA20]. **Sub-grid**
[HdB20, OLP23, PS22b]. **Sub-grid-scale** [MH22b]. **Sub-operator** [JL23].
sub-scale [QJQW22]. **Subcell**

[KdL20, RRHH+21, HMV22, HRRHG21, LC24, PPB23, RRG24, ZL21b]. **subcycling** [ZXBS22]. **Subdomain** [Vab23, SSS22, XLLH21]. **subgrid** [ASSZ21, GCP24]. **subgrid-scale** [ASSZ21]. **subgridding** [CWL+23]. **subiterative** [JLC21]. **submarine** [DSBFN+20]. **subsequent** [JF24]. **Subset** [RBBD22]. **subsonic** [EK21, KKSY21, LCDS23, SZ21]. **Subspace** [LXZ23, CC22a, GRT18, GRT21, HKL+23, KAC22, XCL22]. **subspaces** [CCMC20, PB20b]. **substrate** [ST24, WLZ24a]. **substrates** [MN20, XLHB22]. **substructure** [HRMY20]. **subsurface** [AT20, CCHS20a, CHF21, CYS22, CYYS22, JD23, KT24, LYY20, ND23, TLD20, TV22, XZRW21]. **SubTSBR** [ZL21c]. **subwavelength** [AH21, DHM21b]. **successive** [SL22c, SL23]. **suitable** [Kem24, LHFH20]. **suite** [PS22c]. **sum** [LSC20a]. **Summation** [GKNÖ24, LNF20, SGT23, ÅAL+21, BT23, CT22, DFW22, GN20, GKNÖ23, LLN22, LWN24, MRK+20b, MRK+20c, MZ20, MR23a, PBN+21, Ran23, RRG24, SAM23, WZ21a, WZ24b]. **Summation-by-parts** [GKNÖ24, SGT23, ÅAL+21, CT22, GN20, GKNÖ23, LLN22, LWN24, MRK+20b, MRK+20c, MZ20, PBN+21, SAM23, WZ21a, WZ24b]. **Super** [LKM22, SSMA21, BHP24, CX22b, KML23, RRL+23, WSAZ22, WSG+24]. **Super-convergence** [LKM22, KML23]. **super-convergent** [CX22b]. **super-Gaussian** [WSAZ22]. **super-localized** [BHP24]. **super-resolution** [RRL+23, WSG+24]. **Super-time-stepping** [SSMA21]. **superconductors** [ER22]. **Superconvergence** [LCBW23]. **Superconvergent** [LCWJ20, LCN24]. **supercritical** [WH22a, YFY22, HHVM20]. **superior** [MFdSS24]. **supermesh** [CF20, XMY22]. **superposed** [VT23]. **supersonic** [BKMM24, BEP+20, CPX21, EGN23, JMAK22, XMZ+23, ZWS+24]. **supersonically** [Ian20]. **supervised** [RK21]. **Supplemental** [LE21b]. **Supplemental-frequency** [LE21b]. **support** [KKA24]. **Suppressing** [ELWY24, LKG+20]. **Surface** [CHL20, Don23, GKA22, RPA22, RGLN22, AXWF23, ADM+21, BGR20, BBP24, BDB21, BCC+20, BTL23, CN22, CPGD21, CMNS21, DDVO21, DZL+22, DEvW22, EdLCCCO24, GQF23, DPI24, GMMS22, GHE+23, HPW21a, HRR21, HMO+20, HPS23, HT20, HT21b, HXQL23, Ian20, IMJ20, JKZS21, JRY+20, JL21b, KS11, KH20, LZT+23, LB21, LLF23, LZ24a, LMZ+21a, MJJ21, MKHI20, MSK+22, MM23, MKM23, PSL20, Pop20, SMK23, SHM+23a, TCW24, VSB+22, WH24, WGH23, WR23c, XJN+20, XC20, XLHB22, XZWH22, YKLL21, YYJ+23, YLLG24, ZYL23a, ZMTZ24, ZSY21, ZAA23, ZR24b, vdEW23, YK20b]. **surface-derivative-free** [TCW24]. **surface-gradient** [CN22]. **surface-plasma** [VSB+22]. **Surface-resolved** [RGLN22]. **surface-tension-driven** [XJN+20]. **surfaces** [AAM20, BFP21, CL20d, GTKA20, GKA22, HXZ23, KBCG20, KV23c, KT20, LCWJ20, LZLZ21, LY20b, PhSHK24, QERT20, SOSM20, TWY22a, TCW24, TFCH22, TSSOA20, XFL21, XY20a, YLK20, YQO20, dKSA21]. **surfactant** [ACR23, YTK22]. **surfactants** [FZ23, SLBH23, WLZ24a, ZKY+20]. **Surrogate** [ELSV22, LWY23, LLLL23,

WCZ22, ZTS20, CPH+22, HWZ24, JD23, QH23, TLD20, WLS22]. **surrogates** [KGSK23, RK21]. **surrounding** [XLT+20]. **survey** [KLG+22]. **suspended** [SK23a]. **suspension** [CHCC23, LYL20]. **suspensions** [KVQE21, OLP23, QAS20, STWK21, TACO22, UD22, WNB21, WSS22, WDK22, YCM+20]. **sweep** [BVR22, BNT23, PM23, TR21]. **sweep-based** [BVR22, PM23]. **Sweep-Net** [TR21]. **sweeping** [DMRG22, EEG22, GHY22a, LJ22, LZZ21a, LA21, PJZ+23, TEA+23]. **sweeps** [AAH+20, VRAM21, TZNHD20]. **swept** [VKR+22]. **swimmers** [AP23]. **symbolic** [BSCG22]. **Symmetric** [BEP+20, BCL+23, Bre20, BCC+20, GDLL22, GGM+23, HSK+21, HPX23, HLY20, LKM22, Li22, NFA21, Nor22b, QWZW23, SRM24, WGH23, XHD21]. **Symmetric-Gauss** [BEP+20]. **symmetries** [ABÁFTO23, ZZZG23]. **symmetrizing** [AS20]. **symmetry** [BBA22, GWC+22, ÖL23, PWbCJ24, RN24, ZNCZ+21, ZWQG23]. **symmetry-preserving** [ÖL23, PWbCJ24, ZWQG23]. **Symplectic** [AKK20, DM23a, TXH+21, Baj23, CS20, CHSS20, HHLS22, SSX22, VK22, VK24, Zha22]. **symplecticity** [SX20]. **Synge** [CKT21]. **synthesis** [CHG+20, DCSG22, JZL+24]. **synthesized** [RMN+24]. **synthetic** [ZPS+21]. **System** [NCC21, ATCS20, Bat20b, BCF22, BGH21, BCC+20, BBL23, CY23, CH22, CMS+22b, DD22b, DWWZ21, DZGP24, ELWY24, EH22b, GHHR22, GLLM22, GCL+22, GMJ24, HS23, ILX22, KNP20, LCG22b, LLNL21, LXY23a, LSZ23b, lLNZ21, LFT+20, LL21d, LCCL23, LCWH23, LCBW23, LCJ+20b, MRK+20b, MCVF22, MBTS20, NDH20, NMR+22, PGM22, PBVC22, SMY22, SZ21, TZM+20, Tlu22, YTK22, YH22a, YRC+21, YZW23, ZG21, aZWY23]. **Systematic** [MD21, FSWA22, YXL22]. **systems** [AHR20, AB23, Ale23, AAKW20, AKKM23, BCWD21, BDZ23, BTK22, BRS22, BPT+20, CC24, CMP+21, CMPR23, CNBH23, CZ20b, CM20, CL20c, CX21, CS21b, CBA+21, CMCX23, DFJ22, DSZ22, DGL+23, EDLF20, EPL21, EPL22, FADJ20, FOL23, GCLM22, GDLL22, GKL21, GZ20, GS23, GGH+23, GPS20, GLT+20, HLX21, HJLZ23, JLL20, KK20a, KGBT20, KP23a, KUO23, KWF20, LC20, Li22, LJ23, LLZ23a, LBT+23, LSLH20, LGYK24, LsCxL+20, LA21, LT24, LCC+23b, MD20a, Mar23, MHW21, MHW22, MCI23, Mül23, NNJ21, NV22, ND23, NG20, PPP21, PC21a, PMT+22, PGCC+22, RWH+24, RRG24, SGB+21b, SSW22, SMR22, SMW+22, SBCL24, TJ22, THKT21, TXH+21, VSS21, VN21, WMTQ20, WHN+20, WKA+20, XGQ+23, YD20, YAX20, ZS22b, ZQC+23, ZYZ+23, ZH20, ZJ23].

tabulation [ZSY24]. **tackle** [ZL21c]. **tagged** [DES23]. **Tahtalı** [MMSW22]. **tailored** [CCM+22]. **tangency** [GLWY22]. **tangent** [WYP22]. **tangential** [XFL21]. **tank** [RB21]. **target** [AN21b, LHT21, RtTBI20, Sab20, WK20]. **target-fixed** [LHT21]. **target-specific** [WK20]. **targeted** [GLF23, PLL+21]. **targets** [USRH20]. **task** [TSP22, ZO21]. **Taylor** [CMP+21, CMPR23, CCCH23, DMC+23, Mon21, NMN23, RS20a, RHSK21, SSS22, TXH+21, WCZ+20]. **TD** [KBCH20]. **technique**

[ADK+21, EAK20, GKPT22, HYH24, KSK21, LGMV22, LZPM22, LLPL22, LLQ+23, PCB22, PRPK23, QG21, RN23, TSS+20, VEC21, XSC21, YX22, ZDW22, ZZ23a, dSdCdMC+24]. **Techniques** [MVO+22, OGG20, FCW21, FMOJ22, FM23b, FM23a, JKZS21, JRY+20, KC20b, KMF23, Liu23, MYJ+23, MYL21, RBPRST20, VLC+20, VK22, WL20, YG21, ZWZL22]. **technology** [LLF23]. **teleportation** [PV20, SH22]. **telescopic** [BR22a]. **temperature** [CLS24a, LPM+20, LMPT24, SLF23a, SEG21a, SW22]. **Temporal** [ATF23, EPV21, LLB+23, SOG+22, CA22b, HGB20, HL20c, JTZ22, KS24a, KLF22, LP21, LL21a, LLW20a, LSZ+23a, PJZ+23, WWFM22, XH24, XKZ21, XBRL21, YH22a, ZCZ22, ZHY22, ZB21c, ZLW22b, aZWY23]. **temporal-difference** [ZCZ22]. **Temporally** [KJ22, MD20c]. **ten** [BKY21]. **ten-moment** [BKY21]. **TENO** [LXSF22, LF24b, NME23, TFWX22, YZZ23, ZJQ+24]. **tension** [BCC+20, BTL23, CPGD21, CHL20, DEvW22, DPI24, HPW21a, HT20, HT21b, IMJ20, LMZ+21a, MJJ21, MKM23, WH24, XJN+20, YLLG24, ZYL23a, ZMTZ24, ZSY21]. **Tensor** [BVT20, DES23, DV23b, HKKS21, KAZS23, TOB+24, AT20, BCG23, CHKL23, CN21, CDZ23, DV20, DV21, GQ22, Kho20, KHM+22, LHXZ22, LJZK21, QPW21, RV20, SVW21, SLQW22, TL20, TSSOA20, WGB22, WX24a, XY20b, XZC21]. **Tensor-product-Thomas** [KAZS23]. **Tensorial** [LQX22b, HZX23]. **tensors** [GDLL22, SRM24]. **term** [BZC+22, Don23, GBLT20, HNZ23a, MFTZ20, SKT20, SPAC23, WHN+20]. **terminus** [HPS23]. **terms** [AÖR22, BS22a, BKON23, JJ21, KSHJ20, PR20, SL23, SMS23, WZ21a, ZH20]. **ternary** [DWWZ21]. **terrain** [Bal21]. **terrain-following** [Bal21]. **tessellations** [MOMS24]. **Test** [RA21]. **tests** [SDA+21]. **tetrahedral** [AE20, GK20, JZSX24, JBF21, ML24, Nis20b, NW23, YCH21, ZH23, ZS20]. **tetrahedron** [CIMG21]. **TgNN** [XZRW21]. **TgNN-wf** [XZRW21]. **their** [BCJM20, BBQ+21, DLMZ22, EDC+23, GQ22, KMS20, LLSD20, MBM+23, MAPS20, NdlLPL21, PJZ+23, PA20]. **theorem** [ODM23]. **theoretic** [JZB+24]. **Theoretical** [ITK24, tLjTbZ22, KNG22, KGN22]. **theories** [EL23]. **Theory** [ACD23, BWG+20, CHZ+21, GKNÖ23, GDF21, AB23, AFL22, CSA21, FM20, HJK+21, Ish22, KS23, MWS24, NTSM20, RPDO+21, SOSM20, SL20b, TMG20, VGK21, VCCN+23, WCZ22, XLHB22, XZRW21, XDCF21, YB22, ZZY+20]. **Theory-guided** [ACD23, CHZ+21, WCZ22, XZRW21]. **Thermal** [BOB21a, Ani21, CKLZ23, CZ20b, CCW20, DC22a, EM20, FADJ20, FS21, GA20, GDB23, GFG22, Kan20, KM22b, KLZ20, MMZR21, MH22a, MPBG23, PGM22, RLD24b, TLWM20, TYBW23, TBG20, WLL+23]. **thermal-compositional-reactive** [CCW20]. **thermal-fluid-structure** [WLL+23]. **thermally** [SYY23, XYL22]. **thermo** [BBMA23, HLA22a]. **thermo-gas-liquid-solid** [HLA22a]. **thermo-poroelastic** [BBMA23]. **thermoacoustic** [LBN21]. **thermocapillary** [SMK23]. **thermochemical** [FCW21, LHW+23]. **thermodynamic** [ZWN24]. **Thermodynamically**

[HGZ23, PMT+22, BLBM24, KLS+20, KWDS22, PAA21].
thermomechanical [GJW24]. **thermometry** [BAK22]. **thick** [BFST23].
thickness [ITK24]. **thin** [ACML20a, ACML20b, BW20, BBKB21, CCPS21, CCPS23, CMPZ22, FCGKR23, HYSS22, HCL22, Hig20, KJB+24, LWL22, PH22, QERT20, VSS21, VACE21, WWZZ24b, YL24b]. **thin-film** [ACML20a, ACML20b, PH22]. **thin-layer** [WWZZ24b]. **THINC** [KCX+21, TFWX22, ZFAA24]. **Third** [KB23, QLY21, Unf21, XS22b, LL21a, LWYY22, NW23, Toh23, ZL21b, ZS20, vLN21, NV22]. **Third-order** [KB23, LL21a, NW23, Toh23, ZL21b, ZS20, vLN21, NV22]. **Thomas** [BW23, KAZS23]. **thoracic** [TVL+22]. **Three** [CPX21, CS21c, HRR21, HHLS22, LW20b, TTP22, XZNZ23, ZCY23, ABH21, BGS22a, BSA22, BDL+20, BY20, Cam21, CCM+22, CJLL21, CLS24a, DLL22, DYGC22, FSW22, FZ20a, FB23, FWG22, FGL+22, FLW+23, GHY22a, Gao22, GPSMH20, GHP+23, GL20, GZ21, GMJ24, HSG+22, IW23, JWZ20, JLL22, KKCC20, KZC23, LCG23, LSW20, LZC+20, LJZK21, LRT22a, LR24, LC23, LCP+24, MF24, OYK+22, PJR23, PLV20, RZ23, SL20a, SOV21, SKCM22, Suk23, Tak23, VCNC+21, WC23, XY20a, XS20, YLNT20, Yan21b, YSCM21, YK22, YPX24, YSN23, ZY20b, ZGLL20, ZFG21, ZWZL22, ZPGR22, ZSsC+22, ZXY22, ZABP+24, ZMTZ24].
Three-dimensional [CS21c, TTP22, XZNZ23, ZCY23, Cam21, CCM+22, FSW22, FZ20a, FWG22, FGL+22, GHY22a, GHP+23, GZ21, GMJ24, HSG+22, JLL22, KZC23, LCG23, LRT22a, LR24, LC23, LCP+24, MF24, OYK+22, PJR23, PLV20, RZ23, SL20a, SOV21, SKCM22, Tak23, VCNC+21, WC23, XS20, YLNT20, YK22, YPX24, YSN23, ZGLL20, ZFG21, ZWZL22, ZPGR22, ZXY22, ZABP+24].
three-domain [ABH21]. **three-field** [BGS22a]. **three-phase** [GPSMH20, ZY20b, ZSsC+22, ZMTZ24]. **three-point** [BSA22]. **three-scale** [DYGC22, YSCM21]. **three-temperature** [CLS24a]. **Three-way** [LW20b].
threshold [ZEG20]. **throughput** [ZO21]. **Tightly** [JHT23]. **tilts** [PV20].
Time [AH21, An21a, AL20, BDT21, Bar22, BFM21, BFST23, Jen20, JLY22, JLY23, LKG+20, TLB20, ZLW22b, ARC22, AHG21, AG21, AFK+23, AWP23, AFL22, ATCS20, AFGLM20, AMM20a, AAKW20, AMB22b, AL21, AKKM23, BDS23, BGH20, BB20a, BSW24, BBQ+21, BG20a, BDP23a, BTEK22, CCJW24, CEMO21, CMR21, CP22a, CZ22a, CL20c, CY22b, CW22b, CYHY23, CLGA24, CC22b, Chi23, CBA+21, CELV21, CELV22, CHM24, CA22a, CCN23, CSdP+22, DGGL22, DEvW22, DW21, DGW20, DL24, DH24, DFJ20, DV22, EDLF20, EPL21, FVM22, Fei23, FGKY22, FGTY23, FTPB23, FRW+24, FH23, FPT23, FY22, FOL23, GCVI22, GM23b, GJLD20, GMB+22, GTDB22, GA20, GDB23, GPHAPR+22, GFG22, GMA23, GR21, GKA22, GW20, GLLM22, GLY22, GC23, HBFB20, HPA22, HSM20, HZB+21, HVD23, HTV+22, HR20, HL20a, HX21, HL20b, HRG20, HYZH22, HLH21].
time [JL21a, KSTT22, KTDG22, KS22a, KCS21, KV23a, Kem24, KSI+23, KSW22, KLZ23, KNS21, KS21c, LBC23, LJW+22, LPP+20, LOL22, LWF23, LLTY23, LLLL23, lLTZ20, lLNZ21, LBT+23, Liu20b, LD20b, LHWZ21,

LR22, LOLS23, LN21b, LY22c, LLQ+24, MDG20, MPSP22, MBE21, MYL21, MTB22, Mis23, MMRP22, MPMD20, NAZ22, NDH20, NZ24, Nis23, NFB23, Nor24b, PR24, PKC22, PZ24, PB20b, PMF20, PM21b, PH22, PTT22, PM22b, PC22, Qia22, QZHD23, QHLL20, QCZ22, QW22, RMA20, RLH22, RC20a, RV20, RS23b, RC20b, STEK17, STEK22, SSW22, SYAM23, Sev21, SWF21, SSMA21, SES21, SFGNMGN22, SP22, SPGG23, SdSPS24, SZQS23, Tak23, TCS22, TFCH22, TZ24, TCR+20, TB23, Tot23, TOB+24, Unf21, VRK21a, VLV20, VdGP20, WRBK20, WMTQ20, WTX+21, WZ22, WP23, Wan23, WH24, WWZZ24a, WCBQ24, WDK22, WGU+22]. **time** [XHLH23, YLNT20, YZdCNS21, Yan21c, YWClL22, YW22, Yin21, YL21a, ZS22a, ZRH20, ZY20b, ZLQS24]. **Time-Accurate** [BFM21, CMR21, Yan21c]. **Time-adaptive** [BFST23]. **time-averaged** [FRW+24, SSW22]. **Time-dependent** [AH21, AFL22, AFGLM20, AMB22b, BDS23, BG20a, CZ22a, DGW20, DH24, FPT23, GMB+22, GR21, HPA22, KCS21, Nis23, PB20b, PMF20, PM21b, PH22, PTT22, Qia22, QHLL20, QCZ22, RV20, RS23b, STEK17, STEK22, VdGP20, WWZZ24a, WCBQ24, Yin21]. **Time-domain** [TLB20, BGH20, HLH21, LLLL23, MMRP22, Tak23, TB23, WRBK20, XHLH23]. **Time-explicit** [Bar22]. **time-fractional** [BSW24, CA22a, FTPB23, GC23, HL20b, HRG20, lLTZ20, QW22, YWClL22, YW22]. **time-harmonic** [AHG21, DV22, MDG20]. **time-implicit** [ATCS20]. **time-independent** [PZ24, TOB+24]. **time-integration** [GCVI22]. **time-marching** [TCS22]. **time-parallel** [CEMO21]. **time-periodic** [CHM24, MBE21, PR24]. **time-relaxed** [Fei23]. **time-reversal** [KTDG22]. **time-reversible** [AG21]. **time-series** [HYZH22]. **Time-space** [An21a, ZLW22b, Liu20b]. **time-spectral** [EDLF20, HBFB20, RMA20]. **time-splitting** [Yin21]. **Time-step** [LKG+20, CC22b, DEvW22, HTV+22]. **time-stepping** [DGGL22, DL24, FH23, KV23a, KSI+23, LJW+22, LWF23, LLTY23, lLTZ20, NAZ22, NFB23, SP22, ZLQS24]. **time-stepping-varying** [GLLM22]. **time-steps** [LOL22]. **time-variant** [CL20c]. **time-varying** [CLGA24, Chi23, SWF21]. **time/space** [KSTT22]. **times** [LZY+22b, LTDC23]. **timestepping** [BBCD22, KBCH20, MDF21]. **tip** [CC22a]. **tissue** [KSHJ20]. **tissues** [TBW22]. **TM** [CWL+23]. **TMI/ALE** [CPGD20]. **Tokamak** [EFR21, BLK+23, GRC+22, Heu21, DAGL23]. **tokamaks** [CDT22a, HSB20]. **tolerant** [GB22b, KD20]. **tomography** [CJSZ23, DNW23, DZC+23, FY20, KLZ23, RB22]. **tool** [Suk23]. **toolbox** [CDJM21]. **topography** [GKPT22, ZDT23]. **topological** [BHW23, CMPZ22, WZL21, ZPW+23]. **topologies** [RBPRST20, YYB23]. **Topology** [DZL+22, DAJ22, FADJ20, GMNY23, Aca24, DFJ20, GBC+20, GDAP20, HCL22, HF23, JLXZ24, KKY+21, MQ20, NKA+20, Qia22, TSSOA20, WQ20, YXL22, ZXD22]. **toroidal** [RBPRST20, WGH23]. **toroidally** [WGH23]. **Torrey** [YLNT20]. **torsional** [YB22]. **torus** [FR23]. **Total** [Tot23, BBCD22, GU20, tLjTbZ22]. **TPFA** [RHD+24]. **TPFA-MFD** [RHD+24]. **TRAC** [AN21b]. **Trace** [ÅAL+21, LJ22, MBTS20]. **tracer**

[TN23]. **tracing** [Bat20a, CIMG21, WCBQ24]. **tracking** [BTCV22, CDJM21, GHY22b, GEvWD22, GHE+23, HZ22b, HNZ23b, HW23, IKP22, JZK24, LMG+21, LTBM23, MZ23, MRdB21, NZ24, NKT21, PK20, SLBH23, SPZ22, VMO21, YH23, ZSP20, CRPB20, FO22]. **Traction** [BDB21]. **tractions** [KS11, PSL20]. **trade** [HBEK23]. **trade-off** [HBEK23]. **tradeoff** [BBO+22]. **traffic** [BX20, Tow20]. **train** [WYP22]. **trained** [WLZ+24b]. **training** [AK21, DD22a, DL21, FL21, GYWG23, HBEK23, HBF21, JD23, LLM20, OWHN22, RK21, SHJ+23]. **trains** [CDZ23]. **trajectories** [Sim23]. **trajectory** [HYCL23, PK20, SFDW23]. **trans** [WH22a]. **trans-** [WH22a]. **transcranial** [SACT21]. **transcritical** [BJC23, ZSY24]. **Transfer** [Cha21, ADK+21, Ani21, BOB21a, BRZ+23, BTGA22, CLS+20a, CNCM21, DSPB22, DS23b, FLZ20, GA20, GHP+23, GP23, GCSH22, HGV+21, HCCR22, ID20, JD23, JBF21, KS21d, LJ22, LCWJ20, LS23, LHWZ21, LYS+22b, LLY+23, LM21c, MS20a, MH22a, MYY+23, MFS+22, NdlLPL21, OCGT22, PT23b, SS23, SSS20, SSX23, Shi23, SFP+20, SH22, WGS+20, WZCK21, XSSS22, XJS21, XC23b, ZCQ19, ZCQ20a, ZSZ23, ZSST23, ZYL23a, ZCCN23, ZYY+24, ZLW+21, CL23b]. **transfer-based** [LJ22]. **transfer-learning** [ZLW+21]. **transfers** [GMD22]. **transfinite** [GD20, ZL21a]. **transform** [DC22a, JLRZ20, MCVF22, MTWBT21, Per23]. **transformation** [HWDM22, MBAG21, WWZZ24b]. **transformers** [Cai22]. **Transient** [LBM20, AMB22b, BAT23, CMS+22a, CWL+23, EC20, HVD23, LLF23, RHR20, WMTQ20]. **transition** [CY21, YR22]. **transitional** [MFTZ20, RKVV20]. **transitions** [AdDMT21, GLJB20]. **transmission** [BCIT22, CLW20, KBH+22, Lin21, MPSP22, vHG+22, van22]. **Transport** [GFF20, VM22, AAH+20, ASJ23, AFL22, ACÉ+22, BHW23, BCC+24, BO22, BVR22, BCM24, BW23, BR23, CQY21, CL20d, CWX23, CGZ23, CYS22, CYYS22, CBA+21, CBY23, CCH20, DSSSP20, DBSS+20, DT22a, DWZ20, DWZ23, DJ22, DJ23, EFS+20, ELL+23, EHW21, FCP21, FTPB23, FSB+20, FLOL23, FS21, GHY22a, Gar20, Gar21, GQ22, HR23, HT21a, HKW24, HA21, HQ22, HWDM22, HSG+22, JM23, JHT23, JTT23, Kan20, KAO+20, KSK+24, Kiv21, KSK21, KWMF22, LT22a, LJ20, LKEM21, LLLO21, LCS22, Lév22, LLZ+20a, LZZ21b, LTT21, LLS24b, LMG+21, LPZ22, LM23b, LWX24, MACDR24, MD21, MM21c, MM22, MBBV22, PMF20, PCQL20, PM21b, PM23, QHZ+22, SM24, SvDtTB21, SBJ+23, SGLP23, TBW22, TFCH22, TR21, TN23, TLWM20, TYBW23, TOB+24, VACE21, VMBS20, VRAM21, WW20b, WR23a, WT24, XJL23, XF21b, XF21a, Yan21a, YZdCNS21]. **transport** [YOH+20, YYB23, ZZ20, ZWY+23, ZS21b, ZG20, Tur24]. **transport-reaction** [ZZ20]. **transportation** [IT22]. **Transported** [PJW21]. **transports** [CDZ23]. **trapezoidal** [FL23a, IRT22]. **trapped** [MX22, SFP+20]. **Travel** [LTDC23, KLZ23]. **traveling** [WZ23b]. **Treatment** [BNP+22, CK21, DC22b, JHT23, LJS+23, LZZW24, PR20, RS20c, TYBW23, WLKR23, XYL22, ZHR20, ZH20]. **treatments** [DSZ20, MGA20]. **tree** [RIC+22, ZPW+23]. **tree-topological** [ZPW+23]. **Treecode** [VGK21]. **Treecode-accelerated** [VGK21]. **trees** [Mar24, WWJ24]. **Trend** [HJJL20].

Triangular [DM23b, AE20, CK20, CCB22, DNO23, DK21, HYQ20, HLQZ23, LWR20, LZ24b, Liu21, MK21, NW20, Nis20a, Nis21, VPDD22, WTZZ23, WZL21, ZCQ19, ZCQ20a, ZL21b, ZLW+22a]. **triangulated** [TCW24]. **TriGlobal** [OY21]. **trimming** [TLKK23]. **triple** [EGN23, NAZ22]. **triple-deck** [EGN23]. **triple-porosity-Stokes** [NAZ22]. **triply** [LZLZ21]. **Trotter** [ZOG21b]. **Trubnikov** [SAH+22]. **Truly** [Bar21b]. **truncated** [FA22, RHG22]. **Truncation** [BSR20, LRVF22, PR24]. **trust** [AMG23b]. **trust-region** [AMG23b]. **tsunami** [FFGRLS+20]. **TTI** [XH24]. **tube** [HHVM20, HJH+21, MCBA20, SOBP22]. **tubes** [CCPS21, CCPS23]. **tubular** [KWS22]. **tumor** [LHL+22, NE23]. **tuned** [DHR20]. **tuning** [PK23]. **turbomachinery** [AFP22]. **turbopumps** [CPD+24]. **turbulence** [ASSZ21, BBF20, BABD21, BJC23, BGS+22b, CDBS21, CPX21, CLW+24, DGW22, FJG+20, GRC+22, GT23, GCSH22, KL20, KFP+22, KMF23, KKSY21, LMFV22a, LMFV22b, MND+20, MH22b, MMYT23, NFB23, PPHO22, SSG21, SFNMF+21, TSS+20, WGY20, WCP23, WZSK22, YcD20, YcD23, YGJ21a, YGJ21b, ZXLH23, ZJQ+24, ZAW+20, dZBDMC24]. **turbulence-induced** [PPHO22]. **Turbulent** [SI22, BJR22, BDB21, BPJ22, CPX22, CMH20, CM20, Che20, CFJF23, CF22, CPBB21, DJID20, DTB20, DOL23, GFY20, HSMR20, HM21b, JGM+22, KM22a, KSBG20, KKY+21, KD20, KS21d, LNC+21, LJK+24, LAS22, PJW21, RWDG22, TGS+22, TNF23, ZB24, ZO21, vNGB22]. **Turn** [DCS23]. **Tusas** [GNF22]. **TVD** [SBVM20]. **twisted** [YB22]. **Two** [CS20, HJH+21, Hua21, JZSX24, LXD+20, LC23, QERT20, RHD+24, SZKY24, WWG20, YRC+21, vdEW23, AdDMT21, ADJ23, BJ21, BCG23, BL22a, BBV23, BKC23, BDTU24, BDMP22, BSV22, BSZ+23, Bre20, BMQ20, BE20, BR22b, Cal21, CKLZ23, CSCL20, CLC24b, CY22b, CZ22b, Che23b, CZL20, CLJ+20, CBBI20, CNC21, CK21, CLP22, CMRR21, DEN22, DZJ22, DY22a, DSBFN+20, DC21, DHMT21, DS21, DLYZ23, DZ23, DL24, DLY22, EDEV23, FQSW23, FTZ22, FZ23, FCBM22, Fu20, FLS23, GNZ23, GDBFN+20, GdFP+24, GQS20, GCV22, GCL+22, HdB21, HKS20, HCL22, HLA20b, HLA20c, HJQ+23, HJ24b, IKP22, JMM20, Jai22a, JM22, JM23, JHT23, JWZ20, JGR22, KBCH20, KLS+20, KR23, KWDS22, KKY+21, LL20, LKM22, LHC22, LL21b, LCS24, LOL20, LLW20a, LWR20, LYS22a, LZS22b, LLPL22, LLS24a, LJZK21, lLNZ21, LC22, LY20b, Liu21, LSZ21, LRT+22b, LTBM23, LMPT24]. **two** [LLCK20, MXL+24, MJJ21, MTO21, MA21, MDG20, MCBA20, MIM20, MM21c, MM22, MKM23, MYY+23, MP21, MD22, NKA+20, PB20a, PEA20, PA21, PWbCJ24, PJA22, PAGJ23, PMF20, PLV20, PRL22, QPW21, QWZW23, QSZB20, QLMR24, RWDG22, RSSK24, RSA+20, SBH21, SEG21a, SCB20, Sel22, SSPV20, Sha23, SRD20, SWHJ22, SMR22, SH22, SDA+21, TYC24, TH23, TPYX22, UBT22, WCZ22, WJHS23, WLKR23, WGS23, WZ21b, XS20, XLZ21, XZRW21, XYL22, Xu24, XM20, YLW21, YA21, YMY+21, YZK20, YNT20, ZEG20, ZS22a, ZXBS22, ZLG+23, ZMWS22, ZLW+22a, ZWLG23, ZYZ+23, ZYL+23b, ZMZY23, ZS24, ZR20, ZGX24, ZSQ21, ZSY21, ZQS+21, ZQL+22, ZF20, ZGK+22, ZOEL20,

aKAK20, dSLdA+22]. **two-component** [ADJ23]. **two-derivative** [KBCH20, SMR22, ZS22a]. **Two-dimensional** [Hua21, YRC+21, Bre20, CLC24b, CLJ+20, DEN22, DY22a, DZ23, FTZ22, FLS23, KR23, LL20, LCS24, LWR20, LZS22b, LJZK21, LY20b, Liu21, MDG20, PB20a, PWbCJ24, PJA22, PMF20, PLV20, PRL22, QPW21, QSZB20, WGS23, Xu24, XM20, YMY+21, YNT20, ZSY21, ZQS+21, ZQL+22, aKAK20]. **two-dimensions** [Sel22, SSPV20, SH22]. **two-domain** [MP21]. **two-electron** [BCG23]. **two-equation** [EDEV23]. **two-fluid** [BKC23, BSZ+23, CNC21, LMPT24, NKA+20, SBH21, SCB20, YLW21]. **two-grid** [DZJ22]. **two-layer** [CKLZ23, DSBFN+20, Liu21, ZGX24]. **Two-level** [LC23, LLCK20]. **two-material** [XYL22]. **two-medium** [CZL20, HJQ+23, LSZ21, ZSQ21]. **Two-phase** [HJH+21, QERT20, RHD+24, vdEW23, AdDMT21, BL22a, BBV23, BDMP22, BSV22, BMQ20, BE20, BR22b, Cal21, CSCL20, CY22b, Che23b, CK21, CLP22, CMRR21, DLYZ23, DLY22, FQSW23, FZ23, Fu20, GNZ23, GDBFN+20, GdFP+24, GQS20, GCL+22, HKS20, HCL22, HLA20b, HLA20c, HJ24b, IKP22, JMM20, Jai22a, JM22, JM23, JHT23, JGR22, KLS+20, KWDS22, LHC22, LL21b, LOL20, LLW20a, LYS22a, LLPL22, LRT+22b, LTBM23, LLCK20, MXL+24, MJJ21, MA21, MCBA20, MIM20, MM21c, MM22, MKM23, MYY+23, MD22, QWZW23, QLMR24, RSSK24, RSA+20, SRD20, SWHJ22, SDA+21, UBT22, WCZ22, WJHS23, WLKR23, XS20, XZRW21, YA21, ZXBS22, ZLG+23, ZMWS22, ZWLG23, ZYZ+23, ZYL+23b, ZS24, ZR20, ZF20, ZGK+22, ZOEL20, dSLdA+22]. **Two-point** [RHD+24]. **two-scale** [HdB21]. **two-sided** [lLNZ21]. **two-species** [RWDG22]. **Two-stage** [SZKY24, BJ21, DL24, LC22, WZ21b, ZLW+22a]. **Two-step** [JZSX24]. **two-temperature** [SEG21a]. **two-velocities** [ZS24]. **two-way** [CZ22b, CBBI20, PEA20, PA21, ZMZY23]. **type** [BTKP24, CWY21, sCpLL+22, CLS20b, CC22b, CNC21, CKPP24, ER22, GCLM22, HCdM23, Kar22, KLG+22, LL21b, LZS22a, LZS22b, LLTY23, LXZ23, LF24b, LWZ23, LW20a, LLS20, LLOL24, Par22, QPW21, SDKL21, XZC21, YZK23, ZOWW20, ZYZ+23, ZQS20, ZS20, ZR24b, HKS20]. **type-I** [ER22]. **types** [FZ20a].

U [Abg20, DCS23, Nis20c]. **U-MUSCL** [Nis20c]. **ultimate** [vLN21]. **Ultra** [BBDT21, TCA21]. **ultra-high** [TCA21]. **Ultra-Weak** [BBDT21]. **ultrashort** [CMS+22a, NTSM20]. **ultrasonic** [SSS22]. **ultrasound** [SACT21]. **ultraspherical** [AS20, FHT21, HKJ21]. **un-split** [MKB20]. **unaware** [QJQW22]. **Unbiased** [RBC+23]. **unbounded** [BDFT23, DGS20, GLLM22, Yua21]. **Uncertain** [Nor24b, HJLZ23, KNP20, MPZ24, ND23, PB22, Poë23]. **uncertainties** [MPZ23, PZ20, WK21a, YL21a, ZP20]. **Uncertainty** [BBO+22, BCPV21, LLT+24, PMZ+23, STI24, SSG21, AB23, CDT22b, CZ23, CHG21, CCMC20, EPL22, FJG+20, FS23b, GN22, GGEJ20, JADS21, KP23b, KYO22, KLG+22, KWF20, LGV20, NYZ21, Poë22, Poë23, SC23,

SBJ+23, TBST20, XF21b, XF21a, ZBB21]. **uncertainty-aware** [JADS21]. **uncollided** [FSM+22, SHM23b]. **uncollided-flux** [FSM+22]. **unconditional** [PCF21, ZHY22, ZZW24a, aZWY23]. **Unconditionally** [GHHR22, CD23, CSY20, FCWS22, HSW22, TT22b, TT23, WWG20, WTX+21, WCKS24, Yan21c, ZY20b, ZCY24]. **uncoupled** [VSB+21]. **under-resolved** [KMF23, KSBG20, SFNMF+21, WGY20]. **undercompressive** [BSA21]. **undergoing** [DAJ22]. **underground** [WCF22]. **underlying** [SAS+21]. **understanding** [vLN21]. **underwater** [GZW20a, TWY+22b]. **unfitted** [AG24, BMV22, CL23a, GNZ23, KB22b, MZ22, TB21, TVL+22]. **uniaxial** [DG23, Nic22]. **unidirectional** [ZOG21a]. **Unified** [LLZ+20a, LLS24b, LZX20, WZX24, XCL+21, YK20a, ZZML20, BCP22, BNT23, CLDC20, CN22, Den23, DBD21, FZLL20, FJ21, FHJ22, FCTZ24, GPHAPR+22, HYH24, JN20, KRL21, MS20a, MHW22, PJZ+23, SSS20, SS22b, SS22d, WLZP21, XLXC20, ZWLG23, ZG20, ZZY21]. **uniform** [An21a, AWB+21, BMG+23, CSM20, CC23, CF20, DSBD24, HLM+20, LL23a, MZC+22, dSLdA+22]. **uniformly** [CY23, LGMV22, SZ21]. **unique** [ZCY24]. **Uniqueness** [LLS24a, BJL21, GSOM23]. **units** [BEP+20]. **unity** [BSVL24]. **universal** [EK21, Mon21, PDPK20]. **unknown** [CHN24, CX21, CCWX22b, CMCX23, HGSK22, JLYH24, LDZ24, Sha21, Tow20, YJH23]. **unlimited** [Mar23]. **unloaded** [MNG+22]. **unnormalized** [LLLO21]. **unrealizable** [Nis20d]. **unsaturated** [AYH+21, KLPR20]. **unsplit** [CS21c, HYH24, vdEW24]. **unsteady** [CRF+21, CSdP+22, EJ23b, EFO19, EFO20, GTDB22, HGB20, JLL22, KJ22, LC23, MLCM21, MS20b, NZ24, PTT24, RLH22, SAL+20, SPZ22, SMLM23, ZWB21]. **Unstructured** [MKB20, BGFB20, BLM22, BCP22, BLBM24, CAF+22, CPTR23, CZLC20, CW22a, CZLC22, CDX+21, CRF+21, CCB22, CA22b, DVS22, DBT+20, DSZ22, FL21, FBCD22, GCLM22, GK20, DCC+24, HP23, HM21b, HRWP22, HX23, HJ24b, Jai22c, JGM+22, JZSX20, JBF21, KIHB21, KLB23, KB23, KOS23, LSZY20, Liu21, LYS+22b, LWWH23, LSY+23, LTBM23, LD22, LMN20, LLCK20, LHFH20, MYJ+23, MST24, Mar20, Mar23, NMN23, ND20, PP22a, PP22b, PBGB21, RE20, SGB+21a, SEG21b, SEG22, TNF23, Tso23, WY22a, WY22b, WZL21, XJN+20, XDLX21, XHX22, XM20, YLNT20, YPX24, ZOG22, ZB21a, ZCY23, ZCCN23, ZJSX22, ZGX24, ZWR24]. **unsupervised** [CCLL20, CCN21, KL20, KLG+22, KT24, SACT21]. **up-to** [Li20]. **updated** [BLM22, LNYD20, PCA+23]. **Updating** [SBVW20, DLZZ21, EKPS23]. **Upper** [BEP+20]. **upscaling** [KLPR20, VLC+20]. **upstream** [XMZ+23]. **uptake** [KWS22]. **upwind** [CKLZ23, CF21, CCH+23, CKN22b, DGW20, GKL21, GHD24, KLZ20, KLX23, LMS23, MD21]. **upwinded** [PP24, WCB20]. **Use** [GMRS20, JD23, BT22, FTPB23, SC22c]. **used** [BFS23]. **Using** [HMMO20, HRG20, RHD+24, XF21c, ÅAL+21, ASBM20, AB24, AHR20, AMW22, Ale23, AD21, AHJ23, ALCZ20, AEGV22, AM22, AMB22b, Bal21, BBGT21, BBH23, BKMM24, BSV22, BGS+22b, BPJ22, BRS22, CSASS21,

CDK+23, CF21, CHCC23, CCN21, CC22a, CZ22b, CLXS23, CBA+20, CP20, CDZ23, DD22a, DEvW22, DSZ20, DHMT21, DLZ23, DHR20, DPX23, DW21, EDLF20, EFR21, EDEV23, EdCC+23, FTP20, FZS+21, FADJ20, FC21, FBG20, FMB20, GM23a, GCMV23, GN23a, GLSZ22, GNZ23, GZW20a, GHE+23, GCP24, GKA22, GCSH22, GMNY23, GFF20, GWZ22, Hac21, HPW21a, HSK+21, HLZ20, HRMY20, HBEK23, HTL21, HCL22, HPX23, HF23, HPS23, HX21, HL20c, HLA20b, HXFD20, HSS21, HWDM22, HD23, HXQL23, HA24, HYH24, HSG+22, Iij21, IK23b, JADS21, JGvR23, JLC21, KTDG22, KP23a, Kan20, KS22b, KTBP20, KFSM21, KKY22, KLN20]. **using** [KL22, Kiv21, KNS21, KHS20, KR23, KKY+21, KT24, KD20, KB22b, LCG22b, LKEM21, LVK+22, LC20, LPP+20, LJ21, LZLZ21, LMZ23, LMZ21b, Liu23, LJK+24, LLT+24, LCC+23b, LHW+23, MN22, MO22, MLM+21, MSK+22, MOMS24, MRYS20, MZC+22, MHQ24, MM21c, MM22, MKM23, MD20c, MF24, MN23, MS20b, NdlLPL21, NMN23, NDH20, NKT21, Nis23, NPL+24, OWHN22, ODM23, OLP23, OA21, OKTD21, PZ21, PR24, PJW21, PKG20, PCB22, PhSHK24, DAGL23, PJR23, PS22b, PTT22, PKL+21, PPB23, RG22, RMD20, RUG20, Ran23, RS20b, RHG22, RSWD21, RLH22, RHR20, RLD24b, RBBD22, RAZA21, RBC+23, SWG21, SPdF20, SEG22, Sha23, SFNMF+21, SOBP22, SBJ+23, SACT21, Ste22, SdSPS24, SFDW23, SI22, TLKK23, TAWD23, TBG20, TRC22, TSS+20, TPSN20, Uil20, VLC+20, VGG23, VOL23, VM22]. **using** [VCCN+23, VFBD23, WMS21, WK20, WZ20, WQZP20, WZ22, Wan23, WLZ+24b, WX24a, WZ23a, WZ23b, WWLZ21, XLLH21, XHD21, Yan21b, YLLG24, YSTK20, YH22b, ZSP20, ZA21, ZHPZ21, ZLS22, ZYZ+23, ZABP+24, ZAW+20, ZMG+22, ZMW23, ZSKN22, dLF23, dZBDMC24, vdEW23]. **utilizing** [Edo24, EMS+21, JYK22, Mis23, YJK21, ZL21a]. **UWC** [SFNMF+21].

V [XCL+21]. **vacancies** [KAC22]. **vacuum** [HHVM20, YYM+22]. **Vaes** [Abg20]. **Validation** [GMMS22, KLPR20, RB21]. **validations** [SLOZ21b, SLOZ21a]. **value** [CL20c, GN23a, GD20, MH22a, MBM+22, NNJ21, Nor22a, Nor24a, Nor24b, RFZ22, RBPRST20, RN23, RN24, SY21, SZKY24, SNW23, XM20, ZG21]. **values** [WZ23b]. **vanishing** [MGMV22, MAPS20]. **Vanka** [SMV22]. **Vapor** [YR22, MR22, ZSY24]. **vapor-liquid** [ZSY24]. **vaporization** [DU20, LMZ21b]. **var** [PT23a]. **Variable** [WWZZ24b, BJ21, CBY23, GGB20, GHP+23, GCL+22, HKL+23, HHRA19, HL20a, HWDM22, JWZ20, JZZ22, KS24b, LRT13, LCSZ21, LWF23, LL21d, LRT+22b, LM21c, LP20b, LN24, MRK+20a, PHP21, Pan20b, SHL+20, SAM23, Sti20, YD20, YWClL22, YX22, Yok24, YKFH23, dv23a, AST21, OPHY23]. **variable-density** [KS24b, LP20b]. **Variable-free** [PRKS23]. **variable-order** [HHRA19, Pan20b]. **variable-separation** [BJ21]. **variable-step** [YWClL22]. **Variable/Lagrange** [AST21]. **variables** [CQW24, CCN23, LHPS24, MM20, MCF23, PCB22, Sel22, YTK22]. **variably** [QAS20]. **Variance**

[SH23b, KSK21, LT22a, LCPW23, LWZ22, SH23a, Sha21].
variance-reduced [SH23a]. **variant** [BZC+22, CL20c]. **variate**
[GGEJ20, TTY22]. **variates** [BLWL22]. **Variation**
[CF21, BBCD22, GU20, tLjTbZ22, MSC+20, Tot23]. **Variational**
[BBDT21, Bri22, Dup21, KM22a, KSK+24, LLM20, MPSP22, NdlLPL21,
WLS22, ADK+21, AAM20, CPTR23, CMH20, DSG+22, FOL23, FL23b,
FP23, GFPO22, GSOM23, ISM+23, KV20, LLL22, LGL23b, LW20a, MO22,
MHA23, MJJ21, RN23, SYC+23, SC23, TPSN20]. **various**
[FZ20a, KL20, MPBG23]. **varying** [CLY21, CLGA24, Chi23, FCL21,
GLLM22, LSL20, PLM23a, SWF21, XLLH21]. **varying-mass** [CLY21].
vascular [CGL+23, LHL+22]. **vCANNs** [ALC24]. **VecDualSPHysics**
[LFL+22]. **Vector** [LL22, BW23, BTCV22, KKA24, LL23b, PGS22, RLD24a,
TPSN20, TWZG22, WZ22]. **vectorized** [LFL+22]. **vectors** [SL20a]. **Vegas**
[Lep21]. **velocities** [ZS24]. **velocity**
[ALCZ20, BLL19, BLL20, Bat20b, BCR22, CCHS20a, CZCY23, GGCvR22,
GEvWD22, HHK+23, HP21b, JGvR23, LYH23, MOMS24, MD20c, NFL+21b,
OGVM20, PDM23, SL20a, WZ22, XLXC20, YGW+20, YZSD21].
velocity-dependent [HHK+23]. **velocity-related** [WZ22]. **velocity-space**
[XLXC20]. **velocity-vorticity** [HP21b, MD20c]. **ventricular** [GGN+20].
verifiable [PM22a]. **Verification**
[CMGGS23, BWG+20, FCW21, FM22, FMOJ22, FM23b, FM23a, JHJ20,
Nis22a, Nis23, RMM+22, TRC22, WLZP21]. **versatile**
[CL23b, RKA+23, USRH20]. **version** [MMKM24]. **versus** [KRL21]. **vertex**
[BS22a, CZLC22, GSFH22, GEvWD22, GHE+23, JGR22, LLPL22, QZZ+24,
SGW+23, SEG21b, SEG22, BMQ20]. **vertex-based** [CZLC22].
vertex-centered
[BS22a, GSFH22, LLPL22, QZZ+24, SGW+23, SEG21b, SEG22]. **vertical**
[KJB+24, Lee21, MCBA20]. **Vertically** [EdLCCCO24, Bal21, LP21, Pop20].
vertically-Lagrangian [Pop20]. **Very**
[CLP21, CLPP24, WWLZ21, CNCM21, CA22b, MM21b]. **vesicle**
[CBCT+21, LS22, OL20]. **vesicles** [MSIM21, ZW22]. **vessels**
[LBM+23, PBVC22]. **via** [ABBG23, AFK+23, AZV23, AR22, AN21b,
BCC+24, BS20, BGS22a, BBMA23, Cai22, CHG+20, Che20, CGJM21,
CS21b, CHKL23, CCGC23, CMCX23, DV23b, DS23b, ELSV22, GHH24,
GCSH22, HB21, HJJL20, IK23a, JWH20, JLY23, KKN20, KNT22, KNP20,
LS22, LLLL23, LWZ22, LZZW24, LLOL24, LMK21, MZ23, MAPS20, NKT21,
NP23, OGVM22, PB20b, PTZ+24, RMN+24, SJK21, TT20, TGS+22, Tur24,
WDH+21, WCZ22, WLZ+24b, WWJ24, WCBQ24, WZBV20, WZ21b, XCZ20,
YRHN22, YJP23, YCC+22, YhCdJ+23, YZZZ22, ZXMK21, ZNCZ+21].
vibrational [WZX24, WLZP21]. **view** [Ara20]. **VII** [WZX24]. **violent**
[JKZS21, RZH20]. **Virtual**
[MFTZ20, ADM22, BDS23, CG24, RK21, ZC22b, ZC22c, AM22, BBV23].
visco [FS23b, TCK+22, TBM22, TBG20]. **visco-acoustic** [FS23b].
visco-elastic [TBM22]. **visco-resistive** [TCK+22]. **visco-thermal** [TBG20].

Viscoelastic [ALC24, BCPV21, CA22a, DPX23, EFO19, EFO20, GBF+24, HKJ21, JRY+20, LHXZ22, LLF23, LBM+23, MWY+20, PC23, PBVC22, PG20, SK23a, XG22, ZLW+21, ZLW23, dKSA21]. **viscoelasticity** [ALC24, CDT22b, KKN+22]. **viscosities** [GHHR22]. **Viscosity** [Hig20, SS22b, SS22d, CDM+23, DM21, DHR20, DLYZ23, EDEV23, JRD22, KNT22, LZT+23, LRT13, LJZK21, LFT+20, LN24, MGMV22, MDB24, MAPS20, NVPP23, QPW21, SRH21, SS22c, SLNM21, Sti20, SLQW22, XZC21, ZB21b, dv23a]. **viscosity-based** [MDB24]. **Viscous** [LCP21a, BZC+22, CCPS21, CCPS23, CBF22, DVS22, DS21, FBS23, FWG22, HP21b, JF20, JDB+23, KCT+23, LZX+22b, LQXM22, LGL23a, LSY+23, PS22a, PR20, QAS20, REC+22, SK23a, hSMLS23, SZQS23, TF20, UD22, WTF22, WNB21, YP22, ZWY21, ZCYS20, ZLQS24, ZLB22, WK21b]. **viscous-plastic** [LGL23a, hSMLS23]. **VISVE** [WK21b]. **Vlasov** [ARGK22, AC23, ATCS20, AF23, BCF22, BF24, BFG23, CBQ21, CCY+20, CSA21, CH22, CH24, EOP20, EJ21, ELWY24, EH22a, GHS22, GQ22, KS21c, LXY23a, Li23, LCCL23, NGK+21, PDM23, SWM21, SS22a, SMY22, WK23, YM21, YZW23, ZWS+24]. **VMS** [PCB22]. **VMS-based** [PCB22]. **VOF** [ADJ23, CS21c, DEvW22, DL24, DPI24, GPSMH20, KCX+21, LWZ+21, MMZR21, WYS20, XZNZ23, ZZN22, ZMTZ24, ZOEL20, SLF23a]. **VOF-IBM** [LWZ+21]. **void** [WBN21]. **Volterra** [GW20]. **Volume** [BGNZ22, BLM22, CMPZ22, DJ20, FMB20, KIHB21, MS20a, MKB20, SYOS19, SYOS21, SMK23, SLOZ21b, SLOZ21a, TNB21, YNT20, ZZW24b, AHH+24, ASJ23, AZV23, AE20, ADM+21, Baj23, BHVJ22, BAK22, BG21, BFI22, BMBM24, BSA21, BBP24, BDL+20, BDI+21, BLBM24, BL22b, BTKP24, BSK+23, BR22b, BSP21, Cam21, Cap23, CB24, CA24, CNMB20, CZLC20, CW22a, CZLC22, CGZ23, CLXS23, CSY23, CSF+24, CNCM21, CA22b, DDR22, DVS22, DHK23, DEvW20, DGW20, FTP20, FZB+23, FZQ21, FGL+22, GYWH20, GQF24, GTDB22, GHY22b, GQS20, GSFH22, GH23, GEvWD22, GLK20, DCC+24, HZTN21, HVB21, HST22a, HRWP22, HX23, IMJ20, Jen20, JH23, KdMJ+22, KJdM+22, KF23, KV23c, KLB23, KB23, KCK21, KKS+21c, KOS23, LW21, LFP+21, LB24, Lév22, LOL20, LLPL22, LWZ23, LZ24b, LSZY20, LZLS21, Liu21, LYS+22b, LSY+23, LFW23, LTBM23]. **volume** [LBM+23, LHFH20, MACDR24, MYJ+23, MPBG23, MT21, MD22, NCQ22, NZRH24, NW20, Nis20a, Nis22b, NW23, NVK+22, ÖL23, OGG20, PWXY22, PWX24, DAGL23, PBGB21, PRL22, QZZ+24, RV22, RWQX23, RRHH+21, RPDO+21, RW22, SMSAGG22, San20, Sar21a, SCB20, SWG+20, SGW+23, SEG21b, SBVM20, SMRW22, SST+23, TV22, TJM23, The21, TPB22, TKGB23, Uil20, VMO21, WLH21, WZW21, XDLX21, XM20, Yan21c, YYLY22, YYM+22, ZOG22, ZB21a, ZCY23, ZL21b, ZXX23, ZZ24, ZCY24, ZWR24, ZS20, GAB22b, HMV22, KB22a, PJR23]. **volume-based** [AE20, GHY22b]. **volume-conserved** [Yan21c]. **volume-filtering** [DHK23]. **Volume-of-Fluid** [FMB20, KIHB21, MKB20, BSP21, CSF+24, FGL+22, GH23, HZTN21, IMJ20, KKS+21c, LB24, NZRH24, SCB20, SYL23, XS20, KB22a, PJR23].

Volume-of-Fluid-based [MS20a]. **Volume-preserving** [BGNZ22, Baj23, LW21, The21, WLH21]. **volume/finite** [FZB+23]. **volumes** [KDL23, Ree23]. **volumetric** [WSG+24]. **Voronoi** [BO22, FGZ20, GBC+20, GQF24]. **vortex** [BPG21, DT22b, GH23, GNW22, MM21a, NMN23, SL20a, SL22a, BDWC23, RHSK21]. **vortex-dominated** [MM21a]. **vortices** [MM21a]. **Vorticity** [WK21b, GGCvR22, HP21b, JGvR23, MD20c, MS20b]. **vorticity-Bernoulli-pressure** [MS20b]. **vorticity-velocity** [GGCvR22, JGvR23]. **voxels** [TB23]. **vs** [HPRW20]. **VSPH** [FGZ20]. **VT** [FCWS22, LYS22a]. **VT-flash** [LYS22a].

Wachspress [LCL22a]. **wakefield** [BD20b]. **walk** [CC20]. **Wall** [KS21d, BDWC23, CDBS21, CLW22, DA23, DOL23, HP23, HBF22, HYP24, HLA22b, HTDL24, IK23b, LN22, LZX+22b, LWWH23, NFL+21b, Nis21, PEA20, PO21, ZB24, vNGB22, DA23]. **wall-bounded** [HBF22, HLA22b, HTDL24, PEA20, PO21]. **Wall-modeled** [KS21d, HYP24, ZB24, vNGB22, DA23]. **wall-resolved** [LWWH23]. **walls** [AF20, LP23b]. **WAN** [OWHN22]. **Wang** [CC20]. **Wannier** [MO22]. **warm** [ZHRB23]. **warm-start** [ZHRB23]. **Wasserstein** [FOL23, GN22, LLW20b, WXZ22]. **Water** [DVB20, AG21, AMB22a, AR20, Bal20, BGGM21, BP22, BCC+20, CKLZ23, CP22a, CSW+24, CNMB20, CN22, CZL20, CTCS22, DEN22, DS22a, Don23, DT21b, DFP+21b, FSDB20, GCDT22, DCC+24, GLWY22, HMV22, HSM20, Hig22, HXX22, HXQL23, JH23, KGBT20, KMS20, KWS22, KLZ20, LP23a, Liu20a, Liu21, LM20c, MÖR24, NW22, RLD24a, SGB+21b, SGT23, SdSPS24, TAWD23, WZ23b, WCB20, YYX21, ZDT23, ZXX23, ZBY+23, ZZ23c, ZGX24]. **waterflooding** [LO23]. **wave** [ALM23, AD21, AP20, An21a, AMM20a, AHWZ20, BDT21, BBDT21, BBMA23, BDB21, BFL20, CLC24a, CLC24b, CDL21, CHSS20, CP20, CELV22, DHMT21, DH20, DGS20, DZ23, Dup21, DFW22, EGN23, FL21, FGD+21, GR24, GC20b, GAC20, HYQ20, HNR23, HHS22, HL20a, JHY21, JLRZ20, KTDG20, KSTT22, KS22a, KMS20, LSC20a, LPP+20, LSW20, LLZ+20a, LLLL23, LC22, LD20b, LZX20, LL23b, MDG20, MGL21, MMRP22, NTSM20, NT20, NT23, OP20, OKTD21, RB21, SL22c, SL23, SCdHJ20, SZKY24, TBM22, TAWD23, TPPA22, TLB20, VEC21, WZ22, WCBQ24, WZX24, XH24, XG22, XBRL21, XCL+21, XHLH23, YGJ21a, YGJ21b, ZMZY23, ZJSX22, ZDC20, ZLW22b, ZLW23, ZPK22, van22]. **wave-induced** [ZMZY23]. **wave-mode** [WZ22]. **wave-packets** [EGN23]. **wave-particle** [LLZ+20a, LZX20, WZX24, XCL+21]. **wave-scattering** [BFL20]. **wave-structure** [RB21]. **wavefield** [LKvM+22]. **Waveform** [GM23b, AMG23b, AN21b, AL21, BS20, CJT+20, CHM24, DW21, EdCC+23, EEG22, HRG20, LY23]. **waveguide** [LL24a]. **waveguides** [NPD20, SML20]. **Wavelet** [LH21, HM21a, HDML23, HHRA19, Pan20b, ZDC20]. **Wavelet-based** [LH21]. **wavenumber** [FCL21, KK22b]. **wavepackets**

[GR21]. **waves**
[AB24, AMM+20b, CLW20, CLJ+20, DDVO21, DLM+23, DV22, DS23c, Ein24, KFSM21, LMHL21, LTDC23, MF24, PB20a, Pan20a, SZKY24, SSS22, TGM23, TTP22, VEC21, WGB22, WZ23b, WGU+22, YKdHC20, YL24b]. **way** [CZ22b, CBBI20, JHJ20, LW20b, PEA20, PA21, RR22, ZMZY23, ZT23]. **WCAWE** [RA23]. **WCNS** [WZWZ23]. **WCSPH** [LZX+22b, YJK24]. **Weak** [ATS24, BBDT21, LZJ+24, MB21, SE24, TLKK23, XZRW21, ZBYZ20, BDWC23, CWW22, CAG20, Heu21, NTSM20, OWHN22, PT23a, Svä22, ZZ20]. **weak-constraint** [PT23a]. **Weak-PDE-LEARN** [SE24]. **WeakIdent** [TLKK23]. **Weakly**
[YA21, AD21, BBD+20, CCPS23, CB23, CWW20, GW20, JKZS21, KP24, lLNZ21, MA21, RZH20, SPAC23, TAWD23, ZRH20, ZZZH23]. **weakly-compressible** [JKZS21, KP24, SPAC23]. **Weber** [WGY+21]. **WEC** [GCMV23]. **wedge** [CDL21]. **weight**
[DW23, GC20b, GAC20, KKN20, SCdHJ20]. **weight-adjusted**
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