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+ [MC07b]. 1 [BBDE05, BWLM09, DH07, Hor02, JBHK08, LC06a, LLIK01b, LW07, Mac07, RMF08, VBL07, vDZ06]. $1 + 1$ [VWW04]. $1/n$ [Boy09]. $1/\nu$ [SKK+08]. $1/r$ [HB05a]. 1000 [PWS+02]. 10^7 [MT03]. 13 [GE07]. 2 [AV05, AMXL09, BMN07, BCE+09, BRC+09, BBvdV06, Ber06b, BMQS02, CD03, CJSS08, CGMS06, CdHST08, CBKM00a, CBKM00b, CK03, CL00b, DS06b, DH07, Eld07, ES06, EKP06, GS05a, GS06a, GH03, GHB03, GKL03, Gui03, GLLX08, HWL08, HH01, HS08c, JHSZ07, KB04, KPP09, LGP09, LDN04, LS00, LC03, MP07a, Meh04, MAL09, OJW06, PAD07, PCP08, PVPS09, Rom02, Rom07, RFVP09, RW03, SROCdPFF05, SA09, TS02, VGS04, VL07, VGZB09, WM09, WFC09, WZ09, XMT06, YM07, YJF+06, ZZ01, Zha02, ZK05, ZJW06, ZJWC08]. $2 + 1$ [Wan04a]. 2.5 [CTT08]. 25 [UL06]. 3 [AFGM07, Alb00, ASQR06, AMXL09, ALGM01, AQ00, BM02, BO05, BM06, BWLM09, BPO07, BPL06, BGS08, CD04, CWJ07, CPG04, CGN+07, CBB01, CLL+07b, CJ07, CL00b, CP04c, Dar02, DBF08, DGP00, DB04, EHST03, EKBL09, EAY01, GH03, GS07, GW02, GSB03, GS05c,

HAAO00, Her09, HSL08, JHSZ07, KKCF09, LS02b, LG05, LJ09a, LH08a, LF04, LL08b, LZH+06, MKM99, MKM04, MKLU05, MG07a, MSYL00, MP01b, NCW+09, OTCM08, ORM06, ON08, PSC04, PVPS09, QS07, RWWS07, RW08, RKE+07, RVVL09, SWG08, SMP01, SL07a, SPLM09, Stu01, SP00, TJS03, TPR05, VGBZ09, WGSL06, YBZ06, YJF+06, ZYKW01, ZTPM05, dHRvdB07, dSMN+04, vZdBB07]. 4 [GBB+06]. 500 [PWS+02]. 96 [FVE04]. = 300 [PWS+02]. + [CL07a, CL08b, GIA+08, Lio06]. − [Saf00]. α [APR09, AL01, HHPW08, LNXNTX09, PHW08]. B [Saf00]. β [CK03]. C^0 [LL06a, LLZ07]. C^∞ [GC02a]. d^2/dx^2 [Lab09]. δf [CP03c, CP07, HM09, IITV07]. f [HJKO08, IITV07]. H [CD00, BRP05, KvRvdVvdV07, RFFP06, WM09]. K [Gos02, MG05a, ML06b]. M [Edw00]. M^3 [LMS08]. $\mathbf{R}^3$ [BGN08, VZSL07]. μ [Mac03]. N [BADG00, BDS07, DHM03, FT09, MG05a, MC07b, PGB05, PRL03, TWYC06, WPM+02b]. $\nabla \cdot \mathbf{B} = 0$ [Tót00]. ν [Mac01, SH07b]. $O(1)$ [Pau07]. $O(N)$ [Deh02, HBHS09, YBS06, PO01]. $O(n^2)$ [Gon07]. ω [AQV02, BMQS02, ML06b]. P [QS01, FOLD05, LBL06b, VBL07, WM09]. P_N [FKLY07, LTK+02, MELD08, Ols09, WK01b, MHB08]. P_{N-2} [WK01b]. $P_N P_M$ [DZ09b]. ±2 [WJV07]. ψ [AQV02, BMQS02]. q [CL06a]. Q^2 [KN04]. r [CHR01, CJ04, CK07, WLT08]. $R^{-\nu}$ [SH07b]. S^1 [COV04]. S^2 [COV04]. S^3 [Bey09]. $S\bar{D}$ [SB06a]. z [CK07, GGRS08].

-Adaptive [CHR01, CJ04, RFFP06, WLT08]. **-Body** [BADG00, WPM+02b, BDS07, DHM03, MG05a, MC07b, PGB05, PRL03, TWYC06]. **-Branch** [Gos02]. **-D** [Alb00, ASQR06, AMXL09, ALGM01, BO05, CJSS08, CPG04, CL00b, Dar02, EKP06, GKL03, Hor02, JHSZ07, KB04, KPP09, Mac07, MP07a, MSYL00, MP01b, PAD07, RW08, Stu01, TS02]. **-diagonal** [UL06]. **-DSMC** [Mac01, Mac03]. **-Interpolation** [GC02a]. **-Matrix** [Edw00]. **-means** [MG05a]. **-Multigrid** [FOLD05, KvRvdVvdV07, LBL06b, VBL07]. **-Polarization** [CD00]. **-sphere** [BCE+09]. **-stretching** [GGRS08]. **-T** [AMXL09, JHSZ07]. **-topology** [Bey09]. **-up** [CL08b, CL07a, Lio06]. **-Weighted** [AL01].

/Lagrange [WZ07, Boy06]. **/Lagrange-distributed** [WZ07, Boy06].

1121 [Aza09]. **13-moment-equations** [TS08]. **138** [DKX01]. **151** [LLIK01a]. **152** [MKM04]. **172** [MPC02]. **173** [LM03a]. **177** [Lau06]. **185** [DD03a, SCC+03a]. **196** [HLWW06]. **199** [MN17]. **1D** [LLIK01a].

2 [Tol08]. **200** [Tol02a]. **207** [NTYT02]. **217** [Mil07]. **218** [JJGL07]. **225** [CL08b]. **227** [HMS08b, SM09b, dTWD09]. **228** [ABRR09b, HY11, WZL09b].

3-dimensional [SP06a]. **3624** [SM09b]. **3852** [Har04].

4 [Ano04-27, TT06c]. **406** [PW01].

70 [HT00b].

Abe [WLC+08]. **absolute** [Sus06]. **absorbers** [OK07b]. **Absorbing** [ABK09, CL00b, HLL08, NB04, Rah04, Vay00, AMR06, AK06b, AC09, Bér07, BHNPR07, GT09c, HMOG08, HK04a, HZ08, Hu05, MTH08, XHW07]. **Absorption** [Vay02, CFGK05]. **Abstracts** [Ano00q, Ano00r, Ano00a, Ano00b, Ano00c, Ano00d, Ano00e, Ano00f, Ano00g, Ano00h, Ano00i, Ano00j, Ano00k, Ano00l, Ano00m, Ano00n, Ano00o, Ano00p, Ano01a, Ano01b, Ano01c, Ano01d, Ano01e, Ano01f, Ano01g, Ano01h, Ano01i, Ano01j, Ano01k, Ano01l, Ano01m, Ano01n, Ano01o, Ano01p, Ano01q, Ano01r, Ano02a, Ano02b, Ano02c, Ano02d, Ano02e, Ano02f, Ano02g, Ano02h, Ano02i, Ano02j, Ano02k, Ano02l, Ano02m, Ano02n, Ano02o, Ano02p, Ano02q, Ano02r]. **accelerate** [VTW+07]. **Accelerated** [SH07b, BMN07, CL08d, CS08a, JH08, LCM07, PVPS09, Sam09, VS07, YWC07, ZD05]. **Accelerating** [BCK09, Bow01, HJM06, PS02, PFB01, Saf00]. **Acceleration** [Boy09, CRB+08, CAL00, DIV00, FH00a, Gen01, GTD+02, ISNY05, VCM00, WFTS05, CV06, FWP09, HDR+06, MN09b, MYW07, PPB09, STR07b]. **accelerator** [ASQR06]. **Accelerators** [QRHD00, ZW05]. **Accuracy** [BS00a, BL01, CP06a, GZ01, HT00a, HT00b, IA06a, JMP02, KPB08, LP00, MOG09, MP01b, RRV01, ST01, TRL01, XSL09, YC02, ZSP02, AHNS09, AG09, AT08, BRDM09, BBC+06, CS08c, DSM09b, DWC+09, DET08, FDD07, FK09b, GS03a, GGF03, GP05, Hel09a, HAP06, KMS03, LL09, LH05a, Lar09, LMN+09, LX09, NPPN06, OS04, RB09b, RSO04, SN06, THS07, VL07, YMWM06, YS07c, ZJS08]. **Accurate** [AK05, AQV02, BL08, BR09b, BCM01, BHP07, Bus00, CL02, DDF01, EGHE06, EAY01, FP02, FPT05, FF03, GCGE03, GFCK02, JL04b, KC00, KKR01a, KKR01b, KK05c, KK05d, Kul01, OLA08, Oh04, OGV02, PKP01, RGK07, SCT06, SAKDJ05, hRT02, VQSZ02, YP01, YL01, AM03, AM04, BW06, BCL06, BY07, BC05, Bea08, BSLN09, BGLN05, CL07a, CL08b, CQRW05, DPRN05, De 04, DMP08, DDS09, EG08, FKV08, FB08, GF05a, GHMP07, Gri09, HHC08, HF08b, KE06, KT06, KK05b, KFV07, KB06, KQW03b, LP06a, LRZ04, MvW08, MSS08, MHI08, MY06b, MG07a, MOG09, Mig07, MG06, MG07d, MG08, MT07b, NOG08b, OK07a, PP04, Pop09, PMP08, RVDM09, RDPN07, SGFL09, SM04, SPM03, SYC09, TMS06, TM07, VQLZ04, WM07, ZVQ07]. **Accurately** [KG09]. **ACE** [VS07]. **Achieving** [HAP05]. **ACM** [SZH07]. **Acoustic** [DFT01, ES03b, Man02, ME09, PL01, SFW00, VCP00, WPM02a, ACR08, BHNPR07, CDR09, FNS07, GB08a, HSQ03, IQT08, KP08, KSGF09, LS09, LP04b, MDR07, SDD07, SG03a, TJ09, Tsy03]. **acoustics** [CFR04, Cap05, Cap06]. **across** [KT06, TLL+08, Wu01]. **Action** [SZ01, MGS09]. **Actions** [BLW01]. **Active** [HGM+00, XCY06]. **actuated** [KB08]. **actuators** [LTL+09]. **Adaptation** [DIV00, HLS02a, Hua01b, VD00, VD02, Yam01, AFGM07, BFC04a, BFC04b, DCF+08, Dwi08, FL03, HZ07a, HS03b, JHSZ07, Lap04, LC06a, VD03]. **adaptative** [BdCB09]. **Adapted** [PW07]. **Adaptive**

[AS09, ABGV02, AZC05, Bal01, BMRS01, BDR+04, BL01, BK07, BJP04, CHR01, CH01, CJ04, CBL01, CFJ09, DS05a, DV02, DPR00, DGH02, Dys01, ELW04, GTD00, Ham07, HH02a, JLT06, KS08a, KKP02, LLH02, LZT09, LLdlP+00, LK01, MR00, MKOW04, MC00a, MK04b, NDT06, OV00, PL04, PC06b, SMO00, Sun00, WSTW09, WGCR07, WB09b, XHW07, YC02, ZT07a, ZLAC05, ZQ09, dSAK00, AHF04, AA09, AKV06, ASPB03, AEP04, Aza07, Aza09, BGR08, BLG+08, BLM04, BL05, BEG03, COQ06, CR07, CL06b, CL03a, CC07, CXZ09, CMG09, CHL06b, CY05, CFP08, DAJ07, DW09, DLD+06, DLT09, DS06a, DGRS08, FYH+06, FD07, FK09b, FM06, Gre04, GHMP07, HT07, HPD09, HS03a, HS06, HS08a, HAD06, HG03, JX06, KI05, KAS06, KAA+07, KPP07, KLP+09, LG09, LFSS07, LHR+07]. **adaptive** [LJSM08, LP04a, LL04b, LR07, LP09, MK08a, MZ09, MCG08, MU09, MK08b, Men04, MG07b, MG06, MG07d, MC07b, MHE06, MSB07b, NT07, OK06c, PSCB08, PDHP07, PCP08, Pop03, Pop09, PRL03, RGK07, RJM07, RFFP06, RSTB03, Ryc05, SS07b, SPGR06, ST03b, SRX07, TLK07, TTZ03, TSB03, TFD06, TDGP06, TMG08, TK04, VP09a, VK05a, WK05, WW04, WT07b, WTL08, WLT08, WM09, WHS08, WKL07, XLM07, YMT+04, YJL+06, YBZ04, YF09, YT07, YZF+06, ZK06, ZSC08, vdV08]. **adaptivity** [CMR08, Ngu07]. **addition** [BO09]. **Additive** [ODCK07, HC05, SRM09, XYK05]. **additive-correction** [XYK05]. **ADER** [BRDM09, KI05, SDM04, Tak06, TT05a, TT05b, TT06a, VTT08]. **adhesion** [ZDD09]. **ADI** [KZ04, NN09, SCC09, Wel07, You06]. **Adiabatic** [AKV00, RV09, BG07, BZ04]. **Adjacent** [Azm02]. **Adjacent-Cell** [Azm02]. **Adjoint** [CKvT07, CSV00, DCS00, IFZ01, LP04a, NA08, PG04, PL08, Pro08, SDCC05, UH01, VD00, WM09, DL03a, FLE03, HPS06a, MAN+06, PS03a, PBH04, WGS+08, YA05]. **Adjoint-based** [CKvT07, PL08, Pro08, WM09]. **Adjoints** [TH01, SZ08]. **adjustable** [HKM07]. **Adjusting** [KG09]. **Admitting** [BH09]. **advance** [VTC+07]. **Advanced** [TBT+09, CSC+08]. **advancement** [PMP08]. **Advances** [CP04c, GR01]. **Advancing** [Set01, JP03]. **Advecting** [RMB07]. **Advection** [CL00a, DPCV02, DB00, FMO00, HFO01, HF00, MBP00, MHS02, OGV02, RS09a, TH01, TS02, XY01, AMSZ03, AMS03, AMSZ07, Bal08, BD08, CMSZ09, DPRN06, ELW04, LLTA07, LHGF04, MP08, NZ05, Pud06, RBS06, SCT09, SD06, Sou09, VSH04, XP04a, YA05]. **Advection-Diffusion** [CL00a, HFO01, MHS02, OGV02, DPRN06, NZ05, SCT09, YA05]. **Advection-diffusion-reaction** [RS09a, VSH04]. **Advection-Dispersion** [MBP00, LLTA07]. **advection-reaction** [ELW04]. **advective** [Löh04, PC08]. **advective-dispersive** [PC08]. **AEGIS** [ZK06]. **Aequorea** [SM09a]. **aerial** [HSW07]. **aero** [MWM08]. **aero-optical** [MWM08]. **Aeroacoustic** [Fre00, HRV08, KLK08, PGN08, SMS04]. **Aeroacoustics** [CL01b, SHA08, SSD00, AHNS09, Cap06, Kim07, MRS09, SM06a, SFMP06]. **Aerodynamic** [HSBG05, IFZ01, CKvT07, EHD08]. **aerodynamics** [Liu09a]. **aeroelastic** [WB09b]. **aerosol** [Mar09]. **aerosols** [DSJ03]. **Affordable** [IR09]. **Aggregation** [LBD02, BPO07, Lau06, LL06b]. **agreement** [OB06].

Aided [VP00]. **Air** [FCB02, SD00, SMO00, WB01, CSC+08, CN08, NJLA06, SDCC05]. **Air-Quality** [SMO00]. **Airflow** [ZK04]. **airway** [ZK04]. **al** [SM09b]. **Alamos** [Har04]. **ALE** [AK06a, CYS06, CHCOB09, ÉGP09, FGG01, GGF03, JC02, LBL04, MY06a, MSB07b, NJX09, TT06c, VGS04]. **ALE-type** [NJX09]. **AlGaNd** [GS05a]. **AlGaNd/GaN** [GS05a]. **Algebraic** [GSV06, HH02b, HMMO05, AHPT07, HJM07, LSS+09, Rah04, VSG05]. **algebraically** [Boy09]. **algebraically-converging** [Boy09]. **Algorithm** [AGT02, AGT05, Asl01, BFG07, BM01a, BLW01, BD01, BZB00, BK01, CS01a, CRB00, CBKM00a, CBKM00b, CYKC01, CL00b, CBL01, DKX00, DKX01, Deh02, DB00, FGOV00, FV01, GTD00, GK02, HF00, HCG01, HLKS00, JPMC01, Lar09, LBD02, LTZ02, MK02a, MD01, Mu02, Noe00, PR00, PWW00, PM00, PA00, SR00a, Shy01, SMO00, TSB01, TK02, VG01, VCP00, ZD00, ZD08, Abr07, Abr09, AA06, AL06, AMS04, BHL07, BMN07, BIVC07, BB09b, BOK+06, BP07, CXB08, CGP05, CRAG07, CPKW09, CW08, CK08, CZ09, CLS09a, CJK+03, CK07, Den07, Dim07, DS06a, DDS09, DTSC04, DLMK04, EKP06, EKP07, FT06, FHD+09, FD09b, FBHV05, FCD+06, GTRB09, GG04, GH08a, Gib04, GvH06, GSB03, GKD09, GG09b, GV06, GGCC09, HS07a, HNF07, HM05, HC05, KD09, KKS05, KZWY09]. **algorithm** [KGJ05, KF06, KAA+07, KW03, KT07, LLY05, Lau06, LPK05, LLC06, LJSM08, LZ04, LAKD08, LJ09a, LOK05, LLGL07, LP09, MZ09, MPD03, MM03, MCGV04, MC03, Moo03, MDS03, MK07, NOG08b, NVD05, NVD07, NMG09, Nic09, NCW+09, NFA03, OLLL03, OMK09, PMP08, Pro03, PRL03, RVDM09, RJ06, RBL04, RSTB03, SDGX07, SLF08, SLG+03, SL07b, SA06, SMP09, SS06b, Shy04, SC09a, Sti05, SK04b, SRX07, TSB03, TC09b, VPMC04, VS09, VSV03, VBL07, Wal03, WGSL06, WB09a, WC07, XDB09, XCRX08, YMW06, YBS06, YBZ04, Yin06, Yok07, ZH04, ZSC08, ZD05, ZGSD06, vdV08]. **Algorithmic** [DTS05a]. **Algorithms** [BSJ01, BT02, Boy02a, DDF01, FKV08, GTD01, KKP02, KFV07, KYK07, Lem00, MLS01, MPC01, MPC02, OV00, PM02, RS02, RRV01, SSW01, SK06, AvdB04, ASPB03, AST09, BCK09, BDGL05, Boy04, BUEG06, CHL06a, CFS09, CB03, CC03, DVHM05, DHM03, DEHL06, ELVE07, Fas03, FD03, HJFW04, KK03b, KKS07, Kuz09, LMX+08, LK09, LSW06, LCCG05, MD04, MC07a, Nit05, PP04, PVR07, Ram03, RVM07, RA09, SS09b, SMB09, SCC09, Sto07, Tyg08, Wag05, FS00a]. **Alias** [Pop00]. **aliasing** [KG08, KK03b, SVB09]. **Aligned** [KKR01b, GYKL05, NLLE06]. **Aligning** [HLKS00]. **alignment** [BGM08]. **all-electron** [HBHS09]. **all-scale** [PS03b]. **All-Speed** [sLwG08, BN09]. **Alleviation** [Lee09]. **Alloy** [SZ01, GJK09, LW06, RJM07, TZ07c, ZVHP03]. **alloys** [JVVS07, KGJ05, TZ07a]. **allspeed** [GBC06]. **Almost** [Tan05a]. **along** [JJGL06, JJGL07]. **alpha** [LNXNTX09]. **Alternative** [KJ01, Boy04, HLMM07, MKKY06, Pro08]. **aluminum** [MV06]. **Ampère** [HF01]. **amplification** [BCG09]. **Amplified** [Li01]. **Amplitude** [VCP00, CF06a, CSMH05, KTD03, MV08, PPCW06, TMND07]. **AMR**

[SO08, YF09, vdHK07]. **analyses** [SCT09, YKK08]. **Analysis** [AA02, BZ04, Bod06, BC02b, BE02, CFS09, CGP02, DMG00, DE06, DCV+01, ELW01, FLG01, GGL+01, HA02, JM00, KMHR00, LMK03, LS02b, Mac00, MG02, PD01, PM07, Pon09, Sai02, SHWW00, SGD03, SCD00, Spo00, UH01, VCP00, Wel07, WK01b, Woo06, YXU01, YMWM06, YS07c, AA09, AJT04, AL06, AZ05, Bal08, BBD04, BV05, BDGL05, BCR04, BS09a, BCM+07, BDCG03, BHP07, CLB08, CLLG09, CRAG07, CDI09, CN05, CGH05, CJ04, CFJ09, DVHM05, DL04, DWLM09, DMG04, FWK08, GB08a, GGF03, GD06a, Ham07, HNGB04, HT03, IM05, IA06a, JKL05, KK05b, KRT+09, KLM07, KKS07, Kry04, LNGK04, LTZ03, LP04a, sLwG08, LY04, LJ07, LRS09, LMK09, MK08a, NU09, OK07b, PKKL05, PS07a, PIN09, Pir07, PA07a, PBH04, RVVL09, RM07, SBA07, SDCC05, SDS07, SVB09, SRNV07, SL07c]. **analysis** [SM06b, TX06, VCT07, VGPL09, VBJ08a, VK04, WGNT06, XS07, ZGSD06, dHRvdB07, dNWvSD07, dTWD09]. **Analytic** [AI09, YJ06, YMF01, BB08a]. **Analytical** [BEE06, LH08a, NFvS+06, Ren07, SZ00, Chu09, JR03, LHD05, LT09a, NDG05, SB06a]. **Analyzing** [LWG03]. **anchored** [NT07]. **anelastic** [BM06, CPG04, GBC06, PS03b]. **aneurysms** [YXLF05]. **Angle** [FSY00, LWDA09]. **angles** [AZB09]. **Angular** [Car01]. **animal** [HSW07]. **Anisotropic** [BFC04a, FL03, HLS02a, JW02, LMSV00, QS01, VD03, BHR03, BFJ03, BFC04b, Bur05, BHSV07, CP05, Chr04, DT03, Hua05, JC06a, KE09, KSS09, Lar07, LLY05, MP07a, MD06, MSB07b, RBH03, SKS08, SH07c, WC07, WKL07]. **Anisotropy** [EV03]. **Annealing** [FH02, PA00, Pav07]. **Announcement** [Bra01, Ano05s]. **Anomalies** [KS02a]. **antenna** [LVL05]. **Antennas** [VR02]. **Anti** [XS05c]. **Anti-diffusive** [XS05c]. **Antiplane** [LAS01]. **apparatus** [JR03]. **Appear** [Ano00q, Ano00r, Ano00a, Ano00b, Ano00c, Ano00d, Ano00e, Ano00f, Ano00g, Ano00h, Ano00i, Ano00j, Ano00k, Ano00l, Ano00m, Ano00n, Ano00o, Ano00p, Ano01g, Ano01h, Ano01i, Ano01j, Ano01k, Ano01l, Ano01m, Ano01n, Ano01o, Ano01p, Ano01q, Ano01r, Ano02a, Ano02b, Ano02c, Ano02d, Ano02e, Ano02g, Ano02h, Ano02i, Ano02j, Ano02k, Ano02l, Ano02m, Ano02n, Ano02o, Ano02p, Ano02q, Ano02r, Ano01a, Ano01b, Ano01c, Ano01d, Ano01e, Ano01f, Ano02f]. **applicability** [LTZ03]. **Application** [AFGM07, AKH06, ADK00, ADK02, BS01, BF07, CWT00, CA06, Che00a, Chr03, DLS+00, FM06, GV08, GSD01, GPH+01, HCG01, IYI+02, JC02, KCGH07, LX00, LS05a, MPP01, ML06a, MZ07, MSP+06, ML06b, NCW+09, NGC+07, PSC+06, PWS+02, QL01, RAD07, RXH02, RFVP09, Set01, SHWC07, SSC00, UBRT07, VOD08, VVS08, Vay01, VD00, VD02, Xu01a, XHW07, ZWS07, ZLAC05, ZRR00, AC09, AD04, BBD04, BZ08, BB07b, Boy03, BRB03, CLS+06, CP03a, CMSZ09, DDK06, DHM03, DBB06, Dwi08, DBS06, FDD09a, GLMH09, GS03b, Hua07, KP07, KP08, LHZW05, LLL07, LMZ+08, ML05, MY03, Mil04, MG07c, NS05, PPDM08, PSC04, QS04, SR09a, SSE03, SW04b, SZC09, SLC07, SNLS03, Sme06, SRX07, Tsy04, VBL07, VB08, VD03, Wea09, WJV07, WH05, XSG08, YZLH09, YXLF05, YE05, dSHHM05]. **Application** [VBJ08b]. **Applications** [BS04d, BK01, Che00b, DC01,

DR09a, LTK+02, LWW04, BS05, CP06b, CP06c, DIL03, DDFT09, FVE04, FD03, FWK08, GF05a, Hoh06, Jar04, KK03b, KK04, Lee03, LG05, LXM09, LSW06, MESV09, MG07b, ON08, PR04a, RBSL06, SS08, SK08b, SK06, WSYS09, WS09, YLD09, ZZ07, ZXQX08, vdHK07, DTS05b]. **Applied** [BS00e, DCS00, DSS00, EAY01, PG02b, RH01b, VR02, VSMW01, BB04a, BRC+09, CHG+07, CMR08, DB04, FS04, HS09a, Jar04, KKO04, LC03, Mac07, MWM03, Mad06, MM03, Ram06, RVVL09, SB06b, SDD07, YSS05, ZZVM08, vDZ06]. **applying** [AZB09]. **Approach** [AS02, BL01, Bor00, BCMO01, CBMO02, DSS00, DI02, FH00b, FCB02, GPH+01, LS02a, LP02, PSN00, SSC00, SSD00, AA07, AA09, AK07, AG09, AHMS03, Asl04a, AGW07, Bae03, BL09b, BF08, BB09a, BL09c, BCM+07, BEA09, BHSV07, BB09c, CORT09, CGL06, CM06, CCJ07, CL07a, CL08b, CSMH05, CQRW05, CHCOB09, CVE06, DSJ03, DP09, DLW04, DST07b, FHW07, FLB03, FHLK05, FD09b, GJK09, HZ07a, HAS05, HA09, IQ08, Jia07, JZ08, JG09, JCT07, Kas07, KR09b, Lap03, LTZ03, LL04b, LDW07, LL06a, MR06a, MGCR07, Meh04, MWG+06, MV06, NJLA06, NM06, Nat06, NVD07, Nis07, OF06, OVG07, Pal08, PPDM08, PGB05, PSD09, PP09, Pee03, PSC+06, PCS+09, PA05, RR07, RSS09, RF06, Ryc05, SB06a, Spe05, SG03b, SBC04, TC07a, TZ07c, Tan08, TGB+07, TdAAP08, UYK+04]. **approach** [VC03, VZSL07, WD07, XSG08, XSL09, YAvdB+08, ZG08, ZL04, Zhe07]. **Approaches** [KLvBvL02, KMSH08, KK04, LTD+06, MLSD07, dWKL07]. **approximants** [CDI09]. **Approximate** [LP01, SWTM01, SL03, BDRT09, Gui05, GF05b, HBLD07, MK05, RBT03, YLD09]. **approximating** [Boy06, Her09, Tow09b, WZ03]. **Approximation** [BISS01, FSY00, Her00, LLTA07, SKAS01, ACR08, BGN08, BBW06, BLL03, BS06a, CCV03, CWYM08, CHCOB09, CF04, DP08, DI09, FDK06, FKLY07, GH03, GM04, Gos04, GM06, GV06, HLO08, Kas07, KYLB07, Ngu07, PAD07, PP09, ST06, SK05, Sme06, SKW05, TMS06, Tsu06, VGCN05, WZ07, WO05, WO09, YS06, dFJS09]. **Approximations** [BJM02, BSJ01, Dur00, LTK+02, MG02, RV00, SFY01, Boy05b, CHH06, DC07, Gro06, Gro07, KCMM03, LCB04, LX07a, Lur07, MN04, MN17, RB06, RM07, SVH+06, Sou09, SN06, Tol07, Tol08, TE04, Tow08, TFDK04, XDC09, ZC09]. **aquatic** [HSW07]. **aquifers** [WGNT06]. **Arakawa** [DF07]. **arbitrarily** [BCDW06, EG08, KC06, LL07, TRSK09]. **Arbitrary** [AMH04, DK07, Goe00, GBS00, HPZ01, HJM07, KMS02, LY04, AEP04, BAYZ08, BR09b, BTW03, CDDL09, Cec05, COQ06, GT09b, Gel06, GF05a, HLO08, KZWY09, KK05a, KZ06, LSB04, LY07a, LHZW05, LKMU05, LS05b, LBL08, Min03, NMH+07, Nik06, NPPN06, PS07a, RWWS07, SM09a, SB09, Tol07, Tol08, XDC09, YCL05, YFBH07]. **arbitrary-Lagrangian** [LS05b]. **arbitrary-order** [Tol07, Tol08]. **Arbitrary-pressure** [AMH04]. **arc** [PL09a]. **arc-like** [PL09a]. **Architectures** [BLW01]. **Arctic** [MR01]. **area** [AMSZ03, AMS04, JCT07, ZL08a]. **area-preserving** [AMSZ03, AMS04]. **areas** [GPC07]. **arguments** [De 04]. **arising** [BST03, BO04, CFS09, HJ09, TDV06]. **Arnol'd** [SP07]. **array** [CWJ07].

arrays [LVL05, LJ07]. **art** [VTM+08]. **arterial** [XS07]. **artery** [YXLF05]. **article** [LM03a, MCP03, TR07]. **Artificial** [CS01a, FT01, HDC02, Kel05, PFSL07, RTT01, SD05a, SD05b, STiST02, Tsy03, Xu01c, BCDR06, BL09c, CL06a, EZ08b, FL07, KL08, KR09b, MLM09, Owe04, RBH03, zSW06, zS06]. **artificially** [ST03a]. **Aspect** [AJG01, Car01, BJP04]. **Aspect-Ratio** [Car01]. **Aspects** [Hua01a, HMK02, SW08c, Ano04z, MR03, Sus06, VCG03, dWKL07]. **assembly** [JRS05, Moo03]. **Assessment** [Mav02, Ano08-50, Lar09, Maz06, MGS07, SM09b]. **Assimilation** [DCS00, LCS02, KFH+04]. **Assisted** [BMS00, SKXK05]. **Associated** [SS01a, FL06, GD06a]. **assumption** [CGP05]. **astrophysical** [BvdHKG07, KSW07, RFFP06]. **Asymmetric** [Vay02]. **asymmetrical** [FG05]. **Asymptotic** [BD06, CLB08, CGL08, CS04, DDSV09, DL04, GK01, JKL05, MC09, BLW04, BNNP06, CDV07, KYLB07, sLwG08, ML08]. **asymptotic-preserving** [ML08]. **asymptotically** [JAK05]. **asymptotics** [BLM08]. **asynchronous** [FDL08, KDOO05, SA06, UBRT07]. **atmosphere** [LHR+07, SW08c]. **Atmospheres** [DKSW01]. **Atmospheric** [Bon00, GR08, RWMK03, SZ08, SMT+08, SK08b, TW05, TR07]. **Atom** [CP00, CWWZ00, VCTS02, BRB03, BBK06]. **Atomic** [AC01, LD09b, SG03b, TLAD04]. **Atomistic** [EH02, FK09a, KZ06, LCNR07, MKL06, Ren07, WL03, WWK05]. **Atomistic-Continuum** [EH02, KZ06, Ren07, WWK05]. **atomistic-mesoscopic-continuum** [FK09a]. **atomization** [DMP08]. **Atoms** [VDM+02]. **attached** [TLAD04]. **attachment** [BHL+04, Lap03]. **attachment-detachment** [BHL+04]. **attitude** [San03]. **Attraction** [Saf00]. **Augmented** [Geo08, HB02, IQ08, ILL09]. **AUSM** [CL08b, CL07a, Lio06]. **AUSMPW** [KKR01a]. **Author** [Ano00s, Ano00t, Ano00u, Ano00v, Ano00w, Ano00x, Ano00y, Ano00z, Ano00-27, Ano00-28, Ano01s, Ano01t, Ano01u, Ano01v, Ano01w, Ano01x, Ano01y, Ano01z, Ano01-27, Ano01-28, Ano02s, Ano02t, Ano02u, Ano02v, Ano02w, Ano02x, Ano02y, Ano02z, Ano02-27, Ano02-28, Ano03-27, Ano03-28, Ano03-29, Ano03-30, Ano03-31, Ano03-32, Ano03-33, Ano03-34, Ano03-35, Ano04-28, Ano04-29, Ano04-30, Ano04-31, Ano04-32, Ano04-33, Ano04-34, Ano04-35, Ano04-36, Ano05-29, Ano05-30, Ano05-31, Ano05-32, Ano05-33, Ano05-34, Ano05-35, Ano05-36, Ano05-37, Ano06-28, Ano06-29, Ano06-30, Ano06-31, Ano06-32, Ano06-33, Ano06-34, Ano06-35, Ano06-36, Ano07-33, Ano07-34]. **Authors** [Ano03q, Ano03r, Ano03s, Ano03t, Ano03u, Ano03v, Ano03w, Ano03x, Ano04q, Ano04s, Ano04u, Ano04v, Ano05w, Ano05x, Ano05y, Ano05z, Ano05-27, Ano05-28, Ano06t, Ano06u, Ano06v, Ano06w, Ano06x, Ano06y, Ano06z, Ano06-27, Ano07z, Ano04r, Ano04t, Ano04w, Ano04x, Ano04y, Ano05t, Ano05u, Ano05v]. **Auto** [VG01]. **Auto-ignition** [VG01]. **automated** [KAS08]. **Automatic** [CSV00, GT05]. **Automatically** [HvHHS05]. **Automaton** [LMSV00, LGN05]. **autonomous** [BM01c]. **Autophobic** [HLZ02]. **auxiliary** [Bae03, KKM08, MK06]. **Avalanches**

[TNGH02, FNBB+08]. **average** [KD09, KLLJ09, Yus06]. **averages** [ZIP06]. **Averaging** [LR01a, PS07c]. **avoid** [ZSW07]. **avoiding** [CSO09, KSGF09]. **aware** [ML06a]. **Axis** [CL02]. **Axisymmetric** [BBG+02, Car02, CS00, GP00a, LG03a, Lem00, Mie00, Nie01, RH01b, SP00, TCM+00, AK09, ACLS03, BZ08, FJ09, FBHV05, GV07, GLLN09, Kel05, LN09, OCFF08, PSCQ03, SLF08, VGBZ09, ZK06].

B [CP04a, KMJ01, WdND06]. **B-** [WdND06]. **B-spline** [DD03a, KMJ01, DD03b]. **B-splines** [CP04a]. **B.** [Aza09]. **Back** [DL03b]. **background** [LGKP07]. **Backscattering** [FT01, GS09a, HS07b]. **Backtracking** [TWS02]. **backward** [RFVP09]. **backward-facing** [RFVP09]. **Baer** [AW04]. **bag** [BB09a]. **Bake** [Li01]. **Balance** [FR02, CT08a, CPKW09, DET08, EHD08, LTD+06, MKOW04, VCZS04]. **Balanced** [CZVS04, LR01b, Xu02b, AB05b, BES07, BKLL04, CVB06, FCD+06, GPC07, Her08, KCMM03, LMNK07, Mou04, NPPN06, NXS07, RF06, WSYS09, XS06]. **balanced-force** [FCD+06]. **Balancing** [DPR00, HGN00, MG05a, RBT03]. **ballistic** [BMN07]. **Ballooning** [CGC+09, SHWW00]. **bamboo** [AINR03]. **bamboo-type** [AINR03]. **Band** [CD00, DGP00, DBB06, Dur08, KGJ05, LW09, SP05c, VTW+07, WHLL03]. **Bands** [DFT01, BZ04]. **bandwidth** [MTWW06]. **bandwidth-optimized** [MTWW06]. **bare** [AINR03]. **baroclinic** [AL08]. **barotropic** [LHR+07, Shy04, vBK03]. **barriers** [JN07]. **Based** [AV02, BSJ01, BW02, BMRS01, BM01b, BT02, GTD+02, HMS08b, HK02, IFZ01, Jan00, JL02, KMS02, LC01, LTZ01, LLdlP+00, MD01, MKR00, MOS+00, Noe00, OB02, OCK+02, PX02, PR01b, PM00, QV01, RS02, Rom02, SS02, SC01, Sum00, TK00, Tol02a, Tol02b, WW00, WS01, ZTZ02, AvdB04, ACGV07, AHPT07, AL06, BNV08, BAMD07, BBB08, BLG+08, BdCB09, BG05a, CXB08, CKvT07, CR05, CR07, CdHST08, CS05, CP06b, CP06c, CLL+07b, CBH03, CRB+08, CQRW05, CGM07, CLS09b, De 04, DCF+08, DFV08, DLD+06, DLD08, DS05b, DDS09, Eld08a, ES03b, FSS03, Fox08, Fox09, FMR09, GGMN+09, GCNB07, GKD09, GW05, Gir06, GG09b, Gra06a, GS09c, HMM08, HW08, HMS08a, HV03, HKO07, HLL08, IKS+09, JD09, JRS05, JC06a, JL04b, KOQ08, KZWY09, KGJ05, KFV+05, KSJ03, KNH05]. **based** [KL06, KS08b, KP08, KT04, KT07, Lap04, Lap03, LSA06, LWG03, LJSM08, LB03a, LZ09b, LZ09a, LTZ03, LX09, LQX06, LW07, LW09, LHGF04, LBL07, LBL08, MLSD07, kM07a, Mil06, Mil07, MT07b, MDS03, MK03, MHdB07, MO06, Neo07, NJX08a, NCS03, NFA03, NDT06, OCFF08, ODCK07, PDHP07, PNMK09, Pop03, PL08, Pro08, QT08, QL04, QKS06, RWMK03, RKE+07, RK07, Ros03, SBA07, SC08a, SKWN03, Ser09, SPM03, SD05a, SD05b, SO08, SAM05, Shy06, SHP07, SS05b, SHPC09, SZH07, TBT+09, Ten03, Tol07, Tol08, TU04, TCO+04, Tsy04, TY07, Tuc03, VTC+07, WW04, WM09, WSTW09, WFC09, WS09, XCY06, XSL09, YF09, YS06, ZR08, ZSC08, ZSP08, ZHSS09, dSM05]. **Bases** [ABGV02, ZSC07].

Basic [BK01, FHLO08, IX09, LVW06a, Wan02, AL06, LKNG01, Wan02]. **Basis** [AP02, GTD01, HL06a, OMK09, PB00, SC01, BZ08, CQO04, DR09a, FW07, FP08b, GH08a, GS06b, GG09b, HBHS09, LCW04, LJW07, LBL08, MT07b, NG06a, Ngu07, Ngu08, RA09, SC08a, SVH$^+$06, TB09, TW03, UYK$^+$04, Wag05, WFTS05, WF06, Yin06]. **Baths** [CS01b]. **bathymetry** [Che04]. **Bayesian** [Kou09, MNR07, MN09b]. **bead** [LWF$^+$08]. **bead-spring** [LWF$^+$08]. **beads** [KM08b]. **Beam** [QRHD00, BBF$^+$08, DZ09a, DDGS09, FCJ08a, GGRS08, QFR04, SHY07, TET09]. **beam-beam** [QFR04]. **beams** [HDBW05, KM03, LQ09]. **Bearing** [WB01]. **BECOOL** [CGC$^+$09]. **Bed** [PCCD00, HC08, RC06, RF06, RMF08, Sar03]. **beds** [QP03]. **behavior** [AKH06, GTRB09, KMID05, SK04a]. **behaviors** [LJ09b]. **Behaviour** [WWVG00, Ain04, DVHM05, Dur08, KKO04, sLwG08]. **behind** [VG01]. **belonging** [SS09b]. **Beltrami** [HZ07a]. **BEM** [MMS04]. **Bénard** [CA06, TC02]. **Benchmark** [FS00b, DLMK04, DOW08, LW06, SL07c, VBL03]. **bend** [BCZ04]. **bending** [DLW04, DLW06]. **Bessel** [GST02, Nas08, Saf02]. **best** [Lab09]. **beta** [GLN06]. **Bethe** [Mai03, Mai04]. **between** [ACK02, BBHM09, DJM05, Eg07, FG07, GHV00, HDBW05, IA06b, JA08, KK09, KMSH08, KM08b, MRS09, OB06, PC02, VLW07, VZSL07, YM07, ZKDT07]. **Beyond** [SDS07, PKD07]. **Bézier** [CH08, DAJ07]. **BFGS** [Abr09]. **BGK** [CKR01, Xu01b, CKR00, CDL04, CDL05, FH00a, FH00b, GSW00, LF06, MSJ07, Mie00, PPCW06, SY08, Xu01c, XH03, XMT05]. **bi** [AKH06, HHM04, KH07]. **bi-period** [AKH06]. **bi-periodic** [HHM04, KH07]. **bias** [ME09, TG04]. **biased** [BBHM09, FG05, JAK05, PYC04]. **bidimensional** [BS06b]. **bidirectional** [ES03a]. **Bidomain** [GGMN$^+$09]. **bifluid** [GV08]. **Bifurcation** [DSS00, SML02, dNWvSD07, dTWD09]. **BiGlobal** [KRT$^+$09]. **biharmonic** [Bia03, GD06b]. **bilayer** [FK06]. **bimodal** [Wea09]. **bin** [WXG07]. **Binary** [IYI$^+$02, SZ01, FWP09, LW06, RJM07, TBT$^+$09, Wan04b, YU05a, ZVHP03]. **Bingham** [VBL03]. **Bins** [TRL01]. **biological** [CDDH07, JRS05, KL06, LD06, LMZ$^+$08, MWM03]. **biology** [MG07b, NGC$^+$07]. **biomolecular** [LCM07]. **biomolecule** [CXB08]. **biorthogonal** [ELW04]. **Biot** [BQQ09]. **Bipartite** [RS02]. **birth** [NSC09]. **Bistable** [SSC00]. **black** [FD09a, LCH03]. **black-box** [FD09a]. **black-oil** [LCH03]. **blackholes** [Lau04]. **BLAS** [CFR08]. **blast** [BWLM09, SL04]. **blended** [Ros03]. **Blending** [Lar09]. **blends** [AKH06]. **Blind** [CJLS09]. **Blob** [CM00, BB04a]. **Bloch** [BBR01, BS06b, Gos04, Lin01, LW09]. **Block** [CP06b, MC07b, PPC00, PSH$^+$08, CHB09, Cho05, EHST03, EHS$^+$08, GGMN$^+$09, NGvdWS09, PSC$^+$06, SCT06, TDGP06, TMG08, WR09, YLD09, vdHK07]. **block-adaptive** [TDGP06, TMG08]. **block-AMR** [vdHK07]. **block-triangular** [GGMN$^+$09]. **block-tridiagonalization** [WR09]. **blood** [CGN$^+$07, GGCC09, LL06b, XDB09, YXLF05]. **blood-tissue** [XDB09]. **blowup** [HMR08, MJ09a]. **Bluff** [JML$^+$01, PW00b, PW01, PWS$^+$02, KIH09]. **Bluff-Body** [JML$^+$01]. **blunt**

[BP04a, BP04b, HEN09]. **blunt-body** [HEN09]. **board** [Ano03l, Ano04a, Ano04b, Ano04c, Ano04d, Ano04e, Ano04f, Ano04g, Ano04h, Ano04i, Ano04j, Ano04k, Ano04l, Ano04m, Ano04n, Ano04o, Ano04p, Ano05a, Ano05b, Ano05c, Ano05d, Ano05e, Ano05f, Ano05g, Ano05h, Ano05i, Ano05j, Ano05k, Ano05l, Ano05m, Ano05n, Ano05o, Ano05p, Ano05q, Ano05r, Ano06a, VGL+07, Ano03a, Ano03b, Ano03c, Ano03d, Ano03e, Ano03f, Ano03g, Ano03h, Ano03i, Ano03j, Ano03k, Ano03m, Ano03n, Ano03o, Ano03p, Ano06b, Ano06c, Ano06d, Ano06e, Ano06f, Ano06g, Ano06h, Ano06i, Ano06j, Ano06k, Ano06l, Ano06m, Ano06n, Ano06o, Ano06p, Ano06q, Ano06r, Ano06s, Ano07f, Ano07g, Ano07h, Ano07i, Ano07j, Ano07k, Ano07l, Ano07m, Ano07n, Ano07o, Ano07p, Ano07q, Ano07r, Ano07s, Ano07t, Ano08a, Ano08b, Ano08c]. **Board** [Ano08d, Ano08e, Ano08f, Ano08g, Ano08h, Ano08i, Ano08j, Ano08k, Ano08l, Ano08m, Ano08n, Ano08o, Ano08p, Ano08q, Ano08r, Ano08s, Ano08t, Ano09a, Ano09b, Ano09c, Ano09d, Ano09e, Ano09f, Ano09g, Ano09h, Ano09i, Ano09j, Ano09k, Ano09l, Ano09m, Ano09n, Ano09o, Ano09p, Ano09q, Ano09r, Ano09s, Ano09t, Ano09u, Ano09v, Ano09w, Ano09x]. **Bodies** [GPH+01, LAS01, PW00b, PW01, Alb09, BGS08, BP08, CYS06, CC08b, EG08, FWW04, GS05c, HB05b, KM08a, KT06, KRT+09, TZL05, YM07, vZS07]. **Body** [BADG00, Bus00, JML+01, Mai01, PWS+02, WPM+02b, Alb08, BCDW06, BDS07, BP04a, BP04b, DHM03, Eld07, Eld08a, Fas03, HEN09, JD04, KIH09, KC06, Mai03, Mai04, MG05a, MZ07, MC07b, PGB05, PRL03, San03, SG03b, TWYC06, Vil08, YS09, Yu05b]. **Boltzmann** [CGMS06, AL08, ABZ+08, BKS07, BYS08, BTC05, BLM08, BdLL01, CGMS03, CA06, CDL04, Del03b, DCK08, Dys01, FM04, FR03, FSM+01, FH07, GS06a, GS03b, Gua00, Hag07, HDC02, HHL00, HKG08, HNGB04, HHC08, HH07c, ISNY05, IYI+02, IOTK04, IF09, JP00, JKL05, KY08, KPB08, Kwo08, LL03a, LLP07, LL01a, LL03b, LL05, LLC06, LLQ+02, MP01a, MP02, MRS09, MEG02, MSYL00, MHS02, Mie00, MR07c, MAL09, NCS03, PR00, PL09b, PSCQ03, PSC04, PSC+06, PA07b, PPB09, RMSB09, SCT09, SB09, SPT05, SY08, SLC07, SS03b, SS05c, Sof09, Sun00, TBJ+09, VLB09, WWC07, WS09, XH03, YZ07, YGL05, YF09, ZK05, ZSC07, ZXQX08, ZSC06, ZTPM05, vdSE00]. **Boltzmann-like** [MEG02]. **Born** [CXB08]. **Bose** [BT03, BJM03, BW06, BCL06, BS08a, CKLS05, CLS05, VCTS02]. **Bose-Condensate** [VCTS02]. **Boson** [BTFY01]. **Boson-Fermion** [BTFY01]. **both** [SHP07]. **bottom** [BTT08, FG07, VTT08]. **Bound** [Mai01, CKLS05, GG09b, KSW03, Mai03, Mai04]. **Bound-State** [Mai01, Mai03, Mai04]. **Boundaries** [CPP02, HLKS00, UMRK01, BTC05, BF08, BJ09, CBI+04, GS07, GSB03, KAK03, LL03a, LKP06, MTH08, Mil08, MDB+08, PC08, SS07c, TLK09, Vik03, WS04, XW06, YB06]. **Boundary** [AC00, ACY00, AD03, AGH02, Bra08, CM00, Cor00, DMG00, DC01, DKSW01, DKX00, DKX01, Eli02, FVOMY00, FT01, FSY00, GZ01, GM01a, GHG01, Giv01, GVT01, Gro00, HLS01, HCG01, JSCZ08, JC06a, JL02, KG09, KAIN01, KKC01, LP00, LOK01, LFK00, MCJ01, MSYL00, NFK01, NMS07, Nys02, OKL01, OB02, PPC00, Pet01, RC00, RTT01, SFY01, SW00, SS05c,

TC09a, TS08, Vay00, VR02, WHV+00, YFS01, ZWL02, ZJWC08, ZP02, ZRR00, ABLS05, AST07, AMR06, AWK07, AB03, ABK09, Ata04, AG08, AKP07, AMS03, BYS08, BBD04, Bér07, BL08, BBMB07, BM05, BA03, Bet08, BGS08, BO04, BT09, BP08, CD03, Car09, CGMS06, CFR09, CP04b, COER07, CGKM06, DH09, DS05b, DT03, Dim07, DND06, DCK08, EZ08b, Eg07, Eli07, ES03a, FEL+05]. **boundary** [FM04, FE04, FF03, FGP08, GGS09, GMD07, GS05c, GN03, GP04, Gla05, GPVB07, GP05, GHMP07, GKV09, GK04, GK07, GE07, GT09c, Gui03, HS09a, HK04a, HD07, HAS05, Hel09b, HK08b, HZ07b, HS08b, HS08c, Hu05, HLL08, HSS07, HSC09, HST09, HF08b, IKL+08, IK07, IG05, IDD04, JA08, JM05, KIH09, KIHM09, KY08, Kau03, Kel05, KJ09b, KC06, Kim07, KL04, KB06, LTH08, Lau04, LWP+09, Lee03, LHZW05, Li08b, LN09, LP06b, LY06, Liu09b, LDV08, LZC04, LMZ+08, LCCG05, Mai04, MKLU05, MvW08, MR05, MS04, MTH08, MJ07, Mil08, MDB+08, NA08, NFGK07, ND04, NN04, Nic09, NCW+09, NK08, NB04, OPML07, PSC+06, PH08, PS08, PK05, PWM06, Pon09, PSM08, Pro05, Pro07, RMGK04, SSN09, SS03a, SAK05, SBCL06, SW04a, SLC07, SSND03, SJHM09, SM06b, Sof09]. **boundary** [zSW06, zS06, SK03, SN06, SCN07, SN08, TC07a, Ten03, TE08, TF03, Tsy03, Uhl05, VB09, VVS08, VGZB09, VRM07, VHI05, VP09b, VZSL07, WT07a, WK04, WL06, WFC09, WS09, XJ07, XHW07, XD07, YB06, YP06, YZLH09, YBZ06, YH07a, YZW07, YW07, YLA08, YE07, ZKDT07, ZZ07, Zhe06, ZT03, ZW06, ZZFW06, dA04, dTDI+07]. **Boundary-Adjusting** [KG09]. **Boundary-Conforming** [VR02]. **boundary-fitted** [PS08, SS03a, YP06, ZKDT07]. **Boundary-integral** [AD03, JA08]. **boundary-lattice** [FM04, PSC+06, WS09]. **boundary-lattice-Boltzmann** [DCK08]. **boundary-layer** [ZT03]. **boundary-layer-resolving** [NK08]. **boundary-value** [ABLS05, Eg07, PSM08]. **boundary/level** [YS09]. **Bounded** [Coe02, FG02, Sum00, CLB08, CP04c, FNS07, FPK08, FGP08, HPD09, IDD04, MC06a, PPDM08, SFMP06, WD07]. **bounded-obstacle** [FNS07]. **boundedness** [HR07, RH05]. **bounding** [PG04]. **Bounds** [MPP01]. **Boussinesq** [ES06]. **Box** [PS07a, FD09a]. **BPM** [FCJ08a]. **Branch** [Gos02]. **Branching** [KM02, LM08b]. **Brazovskii** [ZZ08]. **breakdown** [WH05]. **Breaking** [DF00a, SSSWD00, KDOO05, LTD07]. **Breakup** [CBL01, QLS09]. **brick** [DR06]. **brick-tetrahedron** [DR06]. **Bridges** [LS02b]. **bridging** [PKKL05, WL03]. **briefly** [BBF+08]. **Brinkman** [LV07]. **Brownian** [DHM03, SP04]. **Bryan** [MR01]. **BSOR** [CKLS05]. **Bubble** [Han01, YSC01, BPMR08, HY09, HY11, HL07c, LF04, MGCR07, NJLA06, YFBH07, ZEA06]. **bubble-stabilized** [HY09, HY11]. **Bubbles** [Dar00a, ZYKW01, BOK+06, HSL08, Sus03, WK04]. **bubbling** [CGL08]. **Bubbly** [KS02b, MTV08]. **buckling** [LS08]. **Buffered** [SSC00]. **buffers** [SKR06]. **Building** [SSW+07]. **Bulk** [GHG01, AKH06, MLM09, VTW+07]. **Buoyancy** [SZ01, KIH09]. **buoyancy-dominated** [KIH09]. **Buoyant** [PG02a, SWG08]. **Burgers'** [BFG07, PIN09, DP00]. **Burn** [BSJ01]. **Burnett** [LR03, OX04].

C [Thu08a, TRSK09, WdND06]. **C-grid** [Thu08a]. **C-grids** [TRSK09, WdND06]. **CAA** [DTMS06, RBSL06]. **CABARET** [KG09]. **cables** [GPL05]. **Cage** [vHBB02]. **Cahn** [CR07, CFP08, pHL09, KW06, KKL04, WKG06, WKL07, XXS07]. **Calcium** [SSC00]. **Calculating** [BS00e, DST07a, MBM01, MN02, PSZ09, TRL01, LWW04, MS04, RMB07]. **Calculation** [CTS07, CSV00, Deh02, Fed02, HO03, RS02, YSO07, BCDW06, BST03, BS09b, CSMH05, ELD08b, Fou06, HBHS09, KKD08, LZ07, LLC06, LP06a, NG06a, OLLL03, SCT06, SAM05, SMAj08, VTW+07, ZSTC06]. **Calculations** [AC01, CY00, CWWZ00, DGP00, FJ09, HSK00, HJ02, KHV01, Lou00, Mit00, TR02a, UH01, YMF01, AST09, AT05b, BCHL07, CL06a, DT04, DL03a, DBB06, FHW07, Hof04, HRV08, KKCF09, Küm04b, LCG07, LC03, LCM07, LLRP09, PSH+08, SF03, SHP07, SP05c, Tol07, Tol08, VTM+08, YMW06]. **Calculus** [BS01, OVG07, PS07a, PS07b, PCS+09]. **calculus-finite** [OVG07]. **Calibrated** [CBS05]. **calibration** [BV05]. **call** [Ano05s]. **Camassa** [COR08]. **Cancellation** [Lee07b, Lee09]. **Canonical** [LOK01]. **canopy** [Dic08]. **capacitance** [MS04]. **capillarity** [TW07]. **capillarity-dominant** [TW07]. **Capillary** [Mad05, NS04, PS05]. **capsule** [LS08]. **capsules** [SCRL08]. **capture** [AZ05]. **Captured** [YC02]. **Capturing** [AS02, BJ02, BS00c, EFFM02, LFK00, MC02, NFK01, RMO00, SM05, STiST02, TNGH02, Tót00, BAR08, BdCB09, BW07, CB09, DLD+06, Edw06, FSS03, HJJ09, KL08, KH08, kM07a, Pir06, SYC09, SAM05, TDWY08, TY07, UTBV03, Vol04b, Wen06, XD07, YJL+06, dSMN+04]. **Carbuncle** [PD01, DMG04, NK08]. **carbuncle-free** [NK08]. **Cardiac** [Ota00]. **Carlo** [ABRR09b, LM03a, MCP03, ABRR09a, AMH04, BBHM09, BS07, BMDS05, BSP06, BUEG06, BB09b, CLL07a, CGMS03, CGMS06, CTW+08, CV06, CF06b, CS03, CS04, Dem04, DL03a, DL04, DUEB07, DDDC07, EULM03, ED07, FG04, FG05, FT09, Gen01, GL09a, GMH06, HH07c, HGM01, IH04, KB00, KMV03, KAS08, KLW09, LSL08, LM08b, LM01, LD09b, MMKP08, MU09, MBS03, NU09, OK07b, Pal08, Pet07, PK00, PVR07, PVPS09, QL01, RRV01, RS06b, SSE03, Sch08, SL04, She08, SA06, SMSS07, UH01, VK04, VK05b, Vol04a, WBM09, WGS+08, WMH07, ZSB+08]. **carrying** [CDV05]. **Cartesian** [AMSZ07, CL00a, Cal02, CRB00, CBGI09, Che04, CMG09, CYS06, CGKM06, DDH01, GSB03, GS05c, HLS02a, JMK01, KKCF09, KAK03, KL04, LPK05, LJK09, LKMU05, LLB05, LBL06a, MKLU05, MCJ01, MG07d, NA08, OK06a, OSK09, RCB05, RW03, SROCdPFF05, SBCL06, SH07b, SS07b, SPGR06, TU04, UMRK01, VS07, XLM07, XLP05, YU05a, YXLF05, ZT07b, dHRvdB07, vdHK07]. **Cartesian/immersed** [GS05c]. **cascades** [Ram06]. **Case** [FP02, HH01, PWW00, Spo00, BMN05, CD03, CC07, CY05, DBF08, Dur08, GA09, KTD03, LRS07, QS04, QLK07, SD06, VVM05, VP09b, ZQ09]. **Cases** [LMS02, FGS09, GR08]. **CASL** [MPD03]. **casting** [GS03b]. **castings** [BEA09]. **category** [Cap05, Cap06]. **cathode** [SXyWX09]. **Cauchy**

[CFS09, SY09b]. **Caustics** [BS00c]. **Cavitating** [SS02, LKX04, SPB09, SMS08]. **cavitation** [SG03a]. **cavitations** [Hua07, WWC07]. **Cavities** [CL00b, AKL+08, LKD04, SS07a]. **Cavity** [AQV02, APQ02, AK05, DR09a, GGP06, Men04, PSC04, Woo06]. **CBFEM** [OMK09]. **CCD** [SVB09]. **Cell** [Azm02, Bow01, CP04c, CB02, JC02, JM00, Lap02, LDL+09, MD02, MC00a, Par02, PH09, QRHD00, SMP01, Sni01, SPC01, VC00, BAMD07, BMT09, BF08, BM07, CDDL09, CKPW07, CP07, CWD08, CCF+05, FHD+09, FD07, FG06, GS09b, GF05b, HDR+06, IITV07, JH06, JD09, KW08b, LWDA09, LLL07, LL06b, Mai09b, Mai09a, MN09a, MCG08, MSB07b, NGC+07, OK06b, PPCW06, QFR04, RB05, RB09b, SS09b, SK07b, SXyWX09, TF03, WGCR07, YE07, ZSW07]. **Cell-** [SMP01]. **Cell-Centered** [MC00a, BMT09, BM07, CDDL09, CCF+05, GF05b, Mai09b, Mai09a, MN09a, MCG08]. **Cell-Centred** [JM00]. **cells** [CDDH07, DPRN06, LTD07, Li08a, Liu05, MV06, RCB05, XLS09a]. **Cellular** [LGN05, Nov04]. **Center** [Saf00, Saf02, HP04b]. **center-difference-WENO** [HP04b]. **Centered** [MC00a, SMP01, BMT09, BM07, CDDL09, CCF+05, GF05b, Mai09b, Mai09a, MN09a, MCG08, MCGV04, PYC04]. **Central** [AT05a, DPRS01, KT00a, KT00b, Liu05, QS02, TA06, BTW04, BS08a, BL03, CVB06, Cap08a, CP08, CZVS04, GS03c, JR09, KK05b, KPK09, LSB04, Li08a, MGS07, SGD03, Zie04]. **central-constrained** [Zie04]. **central-upwind** [BL03]. **centre** [Mot08]. **Centred** [JM00]. **centres** [SPLM09]. **cerebral** [YXLF05]. **Cerenkov** [GCLB04]. **CFD** [AFGM07, DTMS06, KP08, LXM09, ZWL02]. **CFD-based** [KP08]. **CFD/CAA** [DTMS06]. **CG** [YAvdB+08]. **chain** [GL09a]. **chains** [CVE06]. **Chang** [Del03a]. **Change** [JLCD01, MR00, WW00, WHV+00, YSC01, BFC04b, EKP07, GCNB07]. **channel** [BF07, CZVS04, DS06b, HO03, PPDM08, SS05c, TS08, VTT08]. **channels** [CGRGV+04, NFvS+06, SFX03, TCM05]. **Chaos** [AKY01, DGF09, LX09, MN09b, PW07, RM07, WK05, XK03, HLRZ06]. **Chaotic** [Lin02, YZL+06]. **Characteristic** [DCV+01, LL01a, OB02, OMK09, QS02, IX07, PL04, RLZ03, Ser09, TY07]. **characteristic-based** [Ser09, TY07]. **characteristic-wise** [RLZ03]. **Characteristics** [ZTZ02, HMM08, Lee03, Lee05, Neo07, NDT06, SD05a, SD05b, SZH07, TOY09, ZR08]. **Characteristics-Based** [ZTZ02, Neo07, NDT06, SD05a, SD05b, SZH07]. **Characterization** [GD06a, FH03]. **characterized** [RC06]. **Charge** [CPP02, OMG02, SUW01, Ver01, ASQR06, CK07, LSA06, WR09, XDC09]. **Charge-Conserving** [OMG02]. **charges** [CDJ07, DC07]. **Chebyshev** [BK08, BDCG03, BRB03, Boy04, Boy05a, GH03, JW09, Lab09, LBS+04, Sar03, VB08, ZP06, ZSTC06]. **Chebyshev-filtered** [ZSTC06]. **Chebyshev/rational** [Boy05a]. **Chemical** [JWSC00, JW02, LX00, MEG02, San01, SD00, ACGV07, AMH04, CP06b, CP06c, ELVE07, HL07a, JW03, LGP09, Liu08, MK07, OLA08, RE07, RHPN09, SZ08]. **Chemically** [BM01b, Li01, CGP05, CP06a, CFL+03, NS05]. **chemistry**

[AMH04, GMAj09, LLRP09, MESV09]. **chemotactic** [BCGR05, SL07c]. **Chen** [WS04]. **chimney** [KW08b]. **Choice** [TDV06]. **choosing** [AMXL09, FP08b]. **CIP** [IX07, TOY09, YMT+04]. **CIP/multi** [IX07]. **CIP/multi-moment** [IX07]. **Circular** [HGM+00, PG02a, ACR08, GGP06, KR09a, NCS03, SLC07, SSND03]. **Circulation** [DOWB01, Hig02, MR01, Hig05, SP06a, TVMR03, WDÖ+03]. **Class** [GSD01, HR01, LP01, BAMD07, BG05b, DGH08, GS03d, pHL09, KPP07, LRZ04, MY09, RP08a, Ros08, Tsu06, XS06, ZSWW03, ZWS06]. **Classical** [BS00d, HGM01, BCCV09, CWL08, JR03, JR04, LQ09, LTD+06, QCGQ03]. **Cleaning** [DKK+02]. **Clear** [Bal02]. **climate** [Dic08, Lap08, Lyn08, MS08b, SW08c, Thu08b, dNWvSD07, dTWD09]. **climate-prediction** [SW08c]. **cloaking** [ZH09]. **clocked** [Mil05]. **Close** [POS00, CLL07a, HO08b, ZD05]. **Closed** [RK07]. **Closure** [DK02b, HHC08, PM07, RW08, SKWN03]. **Cloud** [MD02, SMT+08]. **Cloud-in-Cell** [MD02]. **Clouds** [VCTS02]. **cluster** [CD04, FT09, Nit05]. **Clustering** [Gut00, MK02a, MG05a]. **Clusterization** [PA00]. **Clusters** [DPRS01, KKD08, Pal08]. **Cnoidal** [Boy02b]. **co** [BBF+08]. **co-propagating** [BBF+08]. **coagulation** [VK04]. **Coalescence** [CBL01, BJP04, FLM08, LMV04]. **coalescing** [ADS03]. **Coarse** [DEHL06, KMV03, RMGK04, IM07, KEB+07, THL06]. **Coarse-gradient** [DEHL06]. **Coarse-grained** [KMV03, IM07]. **Coarsening** [Cho00]. **Coastal** [SR00b]. **COBRA** [SHWW00]. **cochlea** [GB03]. **COCR** [JHZ+09]. **Code** [ALGM01, BM02, BADG00, CBB01, HF01, QRHD00, SHWW00, BM06, BvdHKG07, CN08, FM06, GHB03, GLN06, GBB+06, HF08a, HDR+06, IITV07, KB04, LGKP07, LL08b, NC04, OPML07, Roy05, SO08, SJHM09, TVMR03, TT06c, TPR05, WGCR07, ZK06]. **Codes** [PFB01, SMP01, Tót00, ADS03, FG06, HM09, PH09, PL04, TS07, dSHHM05]. **codimension** [CFF07, Min03, Min04]. **codimension-2** [CFF07]. **coefficient** [Ber04, BK08, HL05, JBHK08, JZ08, LT05, MGC06, UL06]. **Coefficients** [PL01, VSMW01, Boy09, CT04, DGH08, HH07a, HyLL07, MD06, OK06a, SRNV07, TBT+09, ZZFW06]. **Coherence** [BTSM09]. **coherent** [WR09]. **Cold** [VCTS02]. **Cold-Atom** [VCTS02]. **collapse** [BCGR05, Sus03, TU04]. **Collection** [TRL01, KFV07, WXG07]. **colliders** [QFR04]. **Colliding** [MKM99, CC08b, MKM04]. **Collision** [ADR08, Mu02, PRT00, SR00a, DWC+09, DTS05a, DTS05b, KDK+07, Lar03, LWDA09]. **collision-driven** [DTS05a, DTS05b]. **Collisional** [BZB00, KK00b, CF04, FPT05, GT09a]. **collisionless** [LCB04, VTC+07]. **Collisions** [SSW01, AGW07, BBDE05, HS04, SK08a, She08, SMSS07, WLC+08, XCRX08]. **Collocated** [LP02, CEH09, FL06, IA06b, MZ07, NMM+07, NMH+07, Ni09, SMS04]. **Collocation** [CSS00, KK00b, Lay02, PB00, Rei00, VB00, YKG04, AA09, Bia03, BK08, FWK08, FH03, GZ07a, GZ07b, GH03, Hei04, HK08a, KH09, KT03, LCCG05, MZ09, MK08b, ND04, VK05a, WG09, ZG08]. **Colloidal** [HHL00]. **colocated** [HM05]. **Column** [SUW01]. **Combination** [GG00].

combinatorics [RK07]. **Combined** [AA02, FVOMY00, SZ01, Car09, NI03, SLV09, TZ06, VS09, WZ09]. **Combining** [CWD08, FHJK09, SMP01]. **Combustion** [FH00b, GMB01, BEG03, LG03a, LP06a, LLRP09, MMPB07, YT07, vdBG09]. **Comment** [Aza09, CKR01, MCP03, TR07, Xu01b, LM03a]. **commentary** [SM09b]. **Comments** [PX02]. **common** [EF03]. **Communications** [KP05]. **Commutative** [HV03, MVM02, CBJdlC07]. **Comp** [DD03a, LM03a, MKM04, SM09b]. **Compact** [AC00, ACY00, Bla00, CT09, Cui09, DZ00, HT00a, HT00b, Hix00, KMJ01, Lai02, LS02c, LC01, MF00, NWZL08, PKP01, PS08, Pir02, PM00, Tol02a, Tol02b, TS02, Zha02, AV05, AZ03, BACFT05, Boe05, Cap08c, Cap09, CHB09, CL08c, CS09, DE06, DS06b, GG09b, IQ08, JAK05, Jor07, Kim07, LSB04, LL09, NLF03, NI03, NF09, NS05, PKD07, PYC04, PS04, PSG05, RLZ03, SGD03, SJD05, SDR07, SLV09, SYG06, SS05a, SZ05, STZ07, TD07, Tol08, WZ09, WF06, ZJS08, ZYHS07, KG09]. **Compact-Difference** [MF00]. **Compact-WENO** [Pir02, CHB09, RLZ03]. **compactons** [RV07, RV09]. **Comparative** [KKS07, GLLX08, MC06b, SB06c, TPVG06]. **Comparing** [WLC+08, ZRS06]. **Comparison** [AV02, Bar02b, Boy02a, BUEG06, CMOV02, Fas03, GH03, GHV00, GC02b, HDC02, KMSH08, KN04, Mac00, MRS09, MBS03, QS02, SS01a, WPM+02b, YFS01, Yua02, ZDNP00, ABRR09a, ABRR09b, BRB03, CGMS06, Eg07, EHS+08, GR04, HS04, IITV07, KSW07, LTD+06, Low04, NDG05, SSW+07, ZKDT07]. **Comparisons** [LMX+08, MP01b, CGMS03, GMS06, PR04a]. **compatibility** [RVDM09]. **compatibility-constraint** [RVDM09]. **Compatible** [CRB00, BBC+06, BAFL09, LC06b, RK07]. **Compensated** [PSM08]. **compensation** [DL03b]. **Complement** [ACS00, ACLS03]. **Complete** [CL08a]. **Completely** [XY01]. **Complex** [DDH01, FVOMY00, KKC01, MF01, RRV01, UMRK01, AB05a, AMP09, BYZ04, BGS08, BGN03, BHP07, CHM08, CB03, COER07, FLE03, GS07, GSB03, GS05c, GN07, Had05, HM08, HHMK05, JL09, JHZ+09, LZL03, LG04, LZ09c, LV07, MCM04, MCGV04, MDB+08, MMPB07, MK06, Pop03, RJ06, RE05, SY03, SC08b, TAL09, TF03, VSV03, XLM07, YXLF05, ZJWC08, dSMF09]. **complex-step** [CB03]. **Complex-Valued** [MF01]. **Complexity** [Pau07, PWW00]. **compliant** [LTWW07]. **complicated** [SZS03]. **Component** [YL01, CKLS05, CLS05, JVVS07, Maz06, MLS+05, MGNB09, SS04, TZ07a]. **Component-Wise** [YL01]. **Composite** [BM01a, Dri02, GA09, GL06, HC09, Jor07, ZC09]. **composites** [WP09]. **composition** [CP03a]. **compound** [Hau08a, Hau08b]. **Comprehensive** [VHI05, GB03]. **compressed** [HO08a]. **Compressibility** [HDC02, VLKM02, BCDR06, Ber06a, KKS05, SD05a, SD05b]. **Compressible** [AK01, ACK02, BCVK02, CFA01, CR02, DLS+00, GS02, Han01, HH02a, LC01, PR00, Ros00, SLY02, SBGK00, Shy01, SFMP06, Sun00, SPW+00, TSB01, WLE+00, WZ00, Xu02a, vdVvdV02, AS03a, BSKH07, BKST09, BALW06, BLM08, BL09c, Boe05, BB08b, CPR05, CL07a, CL08b, CHB09,

CJ09, CS07a, CZ09, DT04, DP07, DP08, DF04, DND06, ECL02, FK07a, FOLD05, FD07, GXW07, GFS08, GMD07, GR04, HJ09, HH08, HM04, HM05, HK04b, HKAH06, HAI09, IAT08, JC06b, KG08, KK05c, KK05d, KK05b, KvdVvdV06a, KvdVvdV06b, KvRvdVvdV07, Kok09, KSGF09, Lar09, LMX+08, LFS07, LFX05, LS07, LLS09, LJW09, LDPL08, LKW05, LV07, LP07b, LCS09, LDV08, LSW06, LB03b, LJ06, LBL06a, LBL08, LZH+06, Mai09b, Mai09a, MM03, MTWW06, MC06a, MB04, MSS08, MLS+05, MBP07, MG05b, NOG08b, NGvdWS09, NDT06, NT07]. **compressible** [OF06, OPML07, PDHP07, PS05, PvdV08, PFSL07, PWM06, QA09, QLK07, Ros03, Ros07, SRM09, SFDL07, SPB09, SWK06, SM06a, SMB09, Shy06, SY03, SC09b, SK03, SCN07, SN08, TWM07, TT09, TMD+08, TW05, TT06c, TR07, WAO+04, WTL08, WM09, Xia04, XAI06, XLP05, ZGG03, ZSC08, dTDI+07]. **Compression** [HHCL01, dCNHSD07]. **Compressive** [CLLG09]. **Compton** [DWLM09]. **Compton-scattering** [DWLM09]. **Comput** [ABRR09b, CL08b, HMS08b, HY11, HLWW06, JJGL07, Lau06, MN17, Mil07, SCC+03a, WZL09b, dTWD09]. **Computation** [AIRY01, BCB03, Bae03, CS00, CGSS00, DDG02, DD05, DP00, EKK02, GG00, GM01b, GKL00, GM01c, JTB02, Khe04, LRS07, MS01, NR01, PK07, PSN00, RS06b, Shi07, SFW00, hRT02, VLKM02, Wee02, WZ00, BBK07, BJP04, CWJ07, CFM09, DBB06, FRS08, GT09b, GXW07, GMO04, GMS06, HS08a, Heu03, HLY09, JD09, JX07, Kar04, LCB09, LBL04, MC04, MGCR07, MT08, NL08, OB06, OJW06, PLS+09, RJ06, RC06, Ros03, Ros07, SP05a, SKXK05, TZL05, TJ09, Tuc03, UTBV03, VCT09, WLT08, YC06a, ZSW03, ZW05, ZIP06, dSMF09]. **Computational** [BMRS02, BCE+09, BPS03, Bor03, CL01b, Dar00a, HMK02, JY08, KM02, KMHR00, Myo01, OP02, Sau04, SHA08, SSD00, SZS01, Abr06, AK09, AHNS09, Bod06, CFR04, Cap05, Cap06, CKPW07, Dem04, FVE04, GWF+07, GE07, Kim07, LB03a, MRS09, MJ06, Meh04, MGS07, MT07b, Myo04, PBH04, Roy05, WZL09a, WZL09b, YZL+06]. **Computationally** [EHD08, LLRP09]. **Computations** [AK01, CAL00, DIV00, ES03a, Fre00, Gos02, HHCL01, JK00, KKR01a, KKR01b, KLvBvL02, SS02, TBE+01, BB04b, BdCB09, BLM04, BCGR05, CWL08, DH07, EG08, GS03a, GKE04, HP04a, KM03, KLK08, LJW07, MKLU05, MK06, NA08, NJX09, RMV03, SMS04, TZ03, Tan08, VOD08, XLM07, XP04b, XHC08, YP06, Yan09]. **compute** [CXB08, CB07, VBL04]. **computed** [MLSD07]. **Computer** [Ota00, VP00, FSS03, GHB03, KKD08, LL06b, Lyn08, MC09]. **Computer-Aided** [VP00]. **Computers** [AKY01]. **Computing** [BNNP06, BLW01, BBK06, CF06a, CGL06, CCJ07, CEL06, DK06, DK02a, FCT07, Fre00, GST00, Han00, HL07b, JLOT05b, JLOT05a, KG03, LM08b, LAKD08, dlFMBdlFM02, Ovt08, PS01, RS00, SP07, SP00, TMND07, Wu02, BW06, BCL06, BS08a, Boy03, CORT09, Cec05, CL07a, CL08b, Chu09, CJR04, Jao07, LLS09, LW07, LW09, MR06b, SDR07, SH07b, SFVK06, Sus03, Vos06, Wen06, XMP07]. **concentrated** [DMHP07]. **concentration** [Bil05]. **concentrations** [Wen06]. **concept** [HF08b]. **Concise** [VQSZ02].

Condensate [VCTS02, BT03, CKLS05, CLS05, Yam05]. **condensates** [BW06, BCL06, BS08a]. **condensation** [BJM03]. **Condensed** [BS07]. **Condition** [AGP01, LFK00, NFK01, Vay00, WHV+00, APQ03, BYS08, Car09, DS05b, FGP08, GV08, GP04, GK07, HAS05, Hu05, KDOO05, KL04, Li08b, LD04, Ten03, XD07]. **Conditional** [LLY05, MT04]. **conditioned** [ILL09]. **Conditions** [AC00, ACY00, AGH02, DMG00, DKSW01, Eli02, FT01, FSY00, Giv01, GVT01, Gro00, JL02, LOK01, MPC01, MPC02, OB02, Pet01, RC00, RTT01, SFY01, VDM+02, YFS01, AST07, AMR06, AB03, ABK09, Ata04, AG08, BNV08, BBD04, Bér07, BA03, Bra08, CGMS06, CBI+04, DH09, EZ08b, Eli07, FE04, GK04, GE07, GT09c, HMOG08, HK04a, HZ08, HEN09, Hel09b, HLL08, HSC09, HF08b, IK07, JM05, Kel05, KB06, LWW04, Li08b, LP06b, Liu09b, LDV08, LZC04, LCCG05, Mai04, MTH08, MJ07, ND04, NN04, NMS07, NB04, OPML07, PH08, PK05, PWM06, Pro05, Pro07, SSN09, SS05c, Sof09, zSW06, zS06, SK03, SCN07, SN08, THL06, Tan08, Tem06, TE08, TS08, Tsy03, XHW07, YE07, Zhe06, dA04]. **Conducting** [CPK02, Kan02, DND06, PL09a, RVVL09]. **conduction** [AMXL09, DQ04, FHLO08, GIA+07, GIA+08, GL06, JG09, MR07c, Mou04, Ols07]. **conductivities** [YWC07]. **Cone** [SS01b]. **Confined** [OL01, BWLM09, Chr03, PC08, VBJ08b]. **Confinement** [SUW01, Gos04, SKK+08]. **Conformal** [ZSW07, CSML06, Hum05, LMS04, NCW+09, OK07b, VZSL07]. **Conforming** [VR02, CCV03, CEH09, KT06, SB06c]. **congruent** [AD04]. **Conjugate** [PKvdB00, AMLC08, Fen06, HC09, Ovt08, Yan09, YLD09, ZW03]. **Conjunction** [TK00]. **Connected** [BMQS02, HJ02, VRM07]. **Connecting** [SZ00]. **Connection** [Lio00, Xu01c, VLW07]. **Connectivity** [SJ02, TB00b, SS09b]. **Conservation** [Asl01, BJ00, Bar02a, BIS07, CWT00, CDKP00, CRD02, FGG01, FMO00, GC01, Han01, JTB02, KH09, KT00a, LL00, Noe00, Per00, Sti02, TS01, Vas00, VS02, Wan02, WL02, YL01, ZSP02, ZYC02, AKLMP09, BAFL09, BT05, BBCT09, BCCD08, BP03, CLG07, Cap08a, Cap08b, CP08, CGKM06, CD07, CkM07, De 04, Edw06, ÉGP09, FS09, FL06, GV07, Gui05, HLMM07, HM04, Hub07, HO03, JR09, JTL09, KI05, LL03c, LVW06b, kM07a, MY06b, ML08, MESV09, Mil04, PDL09, RLZ03, RCD05, SW04b, SYG06, SAM05, SWL06, SZLW06, SR09b, Tak06, Thu08b, TT04, TT05b, TT06a, TT06b, THS07, WZL04, WG09, XS05a, YZF07, ZYL+06, vDZ06]. **Conservative** [Abg01, AKO09, CBKM00a, CBKM00b, CL01a, CFJ06, CRD02, DLS+00, FSB01, FK02, HLS02b, HEML00, IAT08, JJGL06, JJGL07, Jan00, KKL04, LM04, MF01, MC02, MGNB09, NTYT01, NTYT02, Nic00, OF02, Pir02, THD09, Tót02, VK05b, XY01, AK06a, CS07a, CS06, CS07d, DP07, DP08, DMP08, DBBP08, EB06, FS09, HHMK05, HKAH06, IITV07, IKS+09, KD09, KPK09, LCS09, MS03, MM03, MC07c, MVO04, NMM+07, NMH+07, NGvdWS09, OK05, OKZ07, OK06c, RVDM09, RAD07, RSTB03, SZC09, SYC09, SS07b, SA09, SPGR06, TL06, TOY09, WAO+04, XP04a, ZGK09,

ZWS07, vBK03]. **conserve** [IG05, SHP07]. **conserved** [XMP07]. **Conserving** [BS00d, KKGL01, OMG02, BYS08, DOW08, DBS06, JL04a, KJ09b, MY09, VU04]. **Consistency** [MPC01, MPC02, BBC+06, Dom08, LSW08, ZH04]. **Consistent** [BKR+01, LOK01, MJ07, Ni09, OB02, SUW01, TE08, WHV+00, XLM07, AJ09, AL08, BEA09, CLMRP08, DST07b, Gra06a, GS03d, IK07, IR09, LG03b, OL01, Pon07a, RHPN09, SCC+03a, SCC+03b, SC09b, WAO+04, ZSTC06]. **Consisting** [CFA01]. **consolidation** [BFG08]. **Constant** [HS04, BMDS05, ET06, HA09, SD05a, TLL+08, ZZ09]. **constant-density** [HA09]. **constant-volume** [ZZ09]. **constants** [Hei05, LTL+09]. **Constitutive** [CT07, CPG04, TdAAP08]. **Constrained** [CBMO02, HMS08b, KM02, PGB05, YXU01, Abr06, Abr07, Abr09, AT05a, BTWGvBW07, COV04, GS05b, GS08, HMS08a, HS09b, IX09, KSS09, LPK05, Li08a, LD04, PM08, TFD06, TA06, UYK+04, YMW06, Zie04]. **Constraint** [BFG08, Tót00, Yon01, Abr09, BLS08, RVDM09]. **Constraints** [LCS02, OS01, Kau03, MS08a, MC07a]. **Construct** [STiST02]. **Constructing** [LJS08, Aza07, Aza09, Che07, YC09a]. **Construction** [AM03, AM04, BBD04, FDD09a, GC01, MVM02, MY06b, Ohw02, QS02, VSMW01, CK08, DBTM08, GLM07, GD06a, MGS09, VGCN05]. **Contact** [DK02a, KJ01, PM02, RRL01, AZB09, Khe04, Spe05, VP09b, WAO+04, ZGG03, ZGK09, vLAvdV06]. **Contacting** [VQLZ04]. **container** [SJ04]. **containerless** [AD03]. **containers** [FBHV05]. **Containing** [CL00b, FMO00, CGDT09, DP07]. **Contents** [Ano07d, Ano07e, Ano07a, Ano07b, Ano07c, Ano07u, Ano07v, Ano07w, Ano07x, Ano07y, Ano07-27, Ano07-28, Ano07-29, Ano07-30, Ano07-31, Ano08u, Ano08v, Ano08w, Ano08x, Ano08y, Ano08z, Ano08-27, Ano08-28, Ano08-29, Ano08-30, Ano08-31, Ano08-32, Ano08-33, Ano08-34, Ano08-35, Ano08-36, Ano08-37, Ano08-38, Ano08-39, Ano08-40, Ano08-41, Ano08-42, Ano08-43, Ano08-44, Ano08-45, Ano08-46, Ano08-47, Ano08-48, Ano08-49, Ano09y, Ano09z, Ano09-27, Ano09-28, Ano09-29, Ano09-30, Ano09-31, Ano09-32, Ano09-33, Ano09-34, Ano09-35, Ano09-36, Ano09-37, Ano09-38, Ano09-39, Ano09-40, Ano09-41, Ano09-42, Ano09-43, Ano09-44, Ano09-45, Ano09-46, Ano09-47, Ano09-48, Ano09-49, Ano09-50, Ano09-51, Ano09-52, Ano09-53, Ano09-54, Ano09-55, Ano09-56, Ano09-57, Ano09-58, Ano09-59, Ano09-60, Ano09-61, Ano09-62, Ano09-63, Ano09-64]. **contents** [Ano09-65, Ano09-66, Ano09-67, Ano09-68, Ano09-69, Ano09-70, Ano09-71, Ano09-72]. **Continuation** [SML02, BHL07, BHP07, CKLS05, SNGAS04, SO08]. **Continued** [Lin01, Ano07d, Ano07e, Ano07a, Ano07b, Ano07c, Ano07u, Ano07v, Ano07w, Ano07x, Ano07y, Ano08u, Ano08v, Ano08w, Ano08x, Ano08y, Ano08z, Ano08-27, Ano08-28, Ano08-29, Ano08-30, Ano08-31, Ano08-32, Ano08-33, Ano09y, Ano09z, Ano09-27, Ano09-28, Ano09-29, Ano09-30, Ano09-31, Ano09-32, Ano09-33, Ano09-34, Ano09-35, Ano09-36, Ano09-37, Ano09-38, Ano09-39, Ano09-40, Ano09-41, Ano09-42, Ano09-43, Ano09-44, Ano09-45, Ano09-46, Ano09-47, Ano09-48]. **continuity**

[Jar04, Tok06a]. **Continuous** [CJ07, DPCV02, HEML00, BBvdV06, CVE06, EZ08a, FCD+06, KEB+07, Kim05, Ni09, NZ07, WAH09]. **continuous-time** [CVE06]. **continuously** [MM07]. **Continuum** [AA02, BS01, EH02, BB09c, FK09a, HW08, JG09, KZ06, KAA+07, LSL08, LZ04, LCNR07, MMKP08, Ren07, SKS08, SWB+06, SSE03, SB06b, SSB07, SBC04, TKH09, WL03, WWK05, ZL09, ZRS06]. **continuum-atomistic** [LCNR07]. **continuum-field** [HW08]. **continuum-particle** [ZL09]. **continuum-transition** [LSL08]. **Continuum/DSMC** [AA02]. **continuum/particle** [SBC04]. **Contour** [CPP02, SJ02, SLF08, SAKDJ05, SD06, VCM00, XCY06]. **Contouring** [Str01a]. **contracting** [PK07]. **contraction** [APP+07, TCM05]. **contrast** [GL06]. **Contrasts** [VSMW01, EG08]. **contravariant** [LB04]. **contribution** [GLM07]. **contributions** [FSS03]. **Control** [AJG01, HGM+00, KMA+01, PGN08, RV00, Aza06, BC08, CC07, CY05, FLB03, GKD09, GL09a, HKM07, HZ07b, HN03, HS04, KLK08, MK04b]. **Controllability** [HMPR07, MHPR08]. **controlled** [CP04b, IG05, LG03a]. **controls** [ZJW06]. **Convection** [ART02, Alb00, CWT00, GZ01, KLN+01, Kul01, KT00a, MPP01, SZ01, SWL00, Str01b, TC02, vdSE00, ART04, AZ05, BKS07, CA06, CEH09, CS09, Cho05, CS07d, DGH08, DR09a, EKP06, EKP07, FBHV05, GZ07b, HK06, ID04, KKS05, KZ04, KW08b, Kuz06, LCW04, LDW07, LS05a, MZ08, MC09, NPC09a, NPC09b, PS03a, PSC04, PSMW09, TD07, Tol07, VU04, VBJ08b, WD07, You06, ZGT06]. **Convection-Diffusion** [CWT00, KLN+01, Kul01, KT00a, vdSE00, CS09, CS07d, DGH08, KZ04, LCW04, LDW07, LS05a, NPC09a, NPC09b, TD07, You06]. **Convection-Diffusion-Reaction** [SWL00]. **convection-radiation** [BKS07]. **convection-reaction** [HK06]. **Convective** [FH07, GHG01, PR01a, Ata04, Bil05, FP08b, KG08, SPLM09, Sus06]. **convective-diffusion** [SPLM09]. **convective/absolute** [Sus06]. **Convergence** [CLMRP08, CAL00, DCV+01, GTRB09, GTD+02, GMH06, GM01c, KDK+07, LZ07, Lee05, PS02, PFB01, Saf00, STR07b, SPW+00, BAR08, BB08a, BS09a, CMG09, DVHM05, GS06b, GP05, Hel09a, HT03, HJM06, JS07, KJ09a, KS08b, LY07b, Maz06, NOG08a, NvL03, ODAF07, PPB09, SBA07, SY03, zSW06, zS06, Tor03, TB04, Tow08]. **Convergent** [DDH01, deM02, Gon07, JTL09, MGC06, TCM05, VSW04, VSW06]. **converging** [Boy09]. **Converter** [KMA+01]. **convex** [HJJ09]. **convexity** [De 04, XP04a]. **Convolution** [RM01b, WPW02, BKM09, Boy06, GvH06, WZ07]. **Convolution-Finite** [WPW02]. **Convolution-Thresholding** [RM01b]. **COOL** [CGC+09]. **Coordinate** [Bon00, FK02, HK01, MC00b, Wu02, HWW07, LRS07, LB04, SS03a, WS04, ZKDT07, dHRvdB07]. **Coordinates** [BM02, CSS00, CL02, NC01, VR02, Ano08-50, BN04, CJR04, CK07, DB04, GYKL05, KRT+09, LGHD08, LPK05, Mea04, MVO04, Nik06, NB04, OBT06, SR09a, SM09b, SHY07, VRM07, WAH09, XLP05, Yam05, YHSX07, vdHK07].

copper [ZSB+08]. **Core** [TR02a, HSC09, SW08c]. **core-spreading** [HSC09]. **Cores** [CKS00, LLB05, Thu08b]. **Coriolis** [AKO09, HC08]. **Corner** [HO08a, Boy05a]. **corners** [Boy03]. **corrected** [BS08b, CL05, CL08d, FWW04, MB04, Str07a, dFGLS05, dFJS09]. **Correcting** [SHP07, SK04a]. **Correction** [AV03, KLN+01, KT02, MD02, MOS+00, MPC01, MPC02, SM09b, ASPB03, BLM03, Che03, CL07b, DL03b, FG04, HJM06, HJM07, JH08, LM04, MTV08, NVD05, PG04, RVM07, RVDM09, SLC07, Wal03, WYS09, WS09, XYK05]. **correction-based** [WS09]. **correction-lattice** [SLC07]. **Corrections** [BC02a, THN+07, VGCN05, XS05c]. **corrector** [CPKW09, CMSZ09, LRS09, TWYC06]. **correlated** [KS08b, AGT05]. **correlation** [LL04a]. **correlations** [MPD08]. **correspondence** [PHKF06]. **Corrigendum** [LLIK01a, MKM04, MN17, SCC+03a, dTWD09]. **cosmic** [Min07]. **cosmic-ray-hydrodynamics** [Min07]. **cosmological** [RHPN09]. **cosmology** [WJV07]. **Cost** [LC06a, BCE+09, LQ06]. **Cost-effectiveness** [LC06a]. **Couette** [LR03]. **Coulomb** [AKV00, DWC+09, GH02, GM01b, HB05a, KK00b, Lar03, LWDA09, LJK09, PC02, Saf00, Saf02, She08, SS01b, WLC+08]. **Counting** [Bow01]. **Coupled** [CFM09, DE02, FLE03, GA09, KZ06, Man02, MC02, NVD07, SP00, VDM+02, AK06a, Alb08, AMS04, BKS07, BBDE05, BFG08, DSM09a, DH07, Doh09, Eld08a, GT09b, GGS09, GFR09, GGCC09, HBLD07, HMMR04, JG09, KLSW09, Mou04, NVD05, NGC+07, Ols07, ODCK07, PR04b, PC06b, RBSL06, Ren07, STD+05, Sus03, TC09a, WLC+06, YJL+06, YLD09, YSS05]. **Coupling** [BQQ09, ČPT01, Dar02, Del03a, Fed02, GTD00, GB08a, GL09a, SSE03, UH01, WL03, WK01a, YMF01, AHMS03, AL08, BCG09, CPKW09, CELS07, CS07c, CC08b, DM03, DDM07, DTMS06, DST07b, ED07, IA06b, KYK07, LKMK09, LM03b, MMS04, MU09, NMG09, Pon06, Yam05]. **couplings** [VZSL07]. **Courant** [KDOO05]. **Covariance** [SL06]. **Cox** [MR01]. **Crack** [ÁDIM09]. **cracks** [Oh04, PL09a]. **Crank** [Han00, KW08a]. **Creation** [OMG02]. **Creep** [Sie00]. **creeping** [Kro01, Kro02, MR06b]. **Criteria** [SV00, CHM08, LG08]. **criterion** [KP08]. **criterions** [HX05]. **Critical** [AV02, GGL+01, KMJ01, Maz06, HAP05]. **Critique** [Mac00]. **crossed** [HDBW05]. **crosswind** [BEG03]. **Crystal** [JK02, LS02b, NDG05, BS05, CW08, DQA08, DBB06, GJK09, HWWL09, Lap03, LL06a, LLZ07, PSCQ03, Sau04, TBT+09]. **Crystal/Melt** [LS02b]. **Crystalline** [EH02, GM04, Gos04, GM06, Tan08]. **crystallization** [Lap03]. **Crystals** [CD00, DGP00, KM02, BS06b, Chr03, DD05, LR07, ON08, YLA08]. **CSP** [VGCN05]. **cubed** [CX08, Cho05, PL07]. **cubed-sphere** [CX08, PL07]. **Cubic** [CP04b, Lay02, BIS07, CLS09b, PSC04, Zhe06]. **Cumulative** [Ano00-28, Ano01-28, Ano02-28]. **cure** [LJ09b]. **Cures** [sKKRH03, PD01]. **Curl** [CL06a, TR02b, Wel07]. **Curl-** [CL06a]. **Curl-Preserving** [TR02b]. **Current** [Ver01, BCDW06, BO04, CBC09, CDV05, EPW08, FM06, LTD07, NMM+07, NMH+07, SK05, VTC+07, Wea09]. **current-carrying** [CDV05]. **Currents** [JTB02, GCW07, Pee03, SK08a, VBL04]. **curse** [KDOO05].

curvature [Bur05, BHSV07, ML06a, Shi07]. **curvature-dependent** [Bur05]. **curvatures** [RMB07]. **curve** [CFF07, SK07a, WSTW09]. **Curved** [MSYL00, Chr04, GH08a, JJGL06, JJGL07, JY08, KY08, KAK03, KB06, NGC+07, QP03, RBL04]. **Curves** [BCMO01, CBMO02, KKGL01, LZ09a, MR07b]. **Curvilinear** [BM02, BGS08, JMK01, MR01, NC01, SK05, SCD00, VR02, VG02, XCZ02, BN04, GS07, HWW07, KL08, KRT+09, Kok09, LB04, Nik06, VRM07, WS04, Yam05, vdHK07]. **cut** [FD07, LTD07, RCB05]. **cut-cell** [FD07]. **Cycle** [GHV00, BPM06, SJC07, XYK05]. **Cyclotron** [OL01, GLS03]. **Cylinder** [HGM+00, MK02a, BC08, BT07a, BT07b, DCK08, KR09a, MPD03, NCS03, SLC07, SSND03]. **Cylinders** [AD01, PG02a, AL06, ACR08, MAL09, TOZP03]. **Cylindrical** [CSS00, CL02, CPP02, FK02, GBS00, LMS02, Nit01, Sie00, BS04c, CK07, DB04, Mai09a, MVO04, OBT06, OPML07, RRC05, XSG08]. **Czochralski** [JK02, PSCQ03].

D [MKM04, CHL09, AV05, AFGM07, Alb00, ASQR06, AMXL09, ALGM01, AQ00, BM02, BO05, BBDE05, BM06, BCK09, BMN07, BWLM09, BRC+09, BBvdV06, Ber06b, BMQS02, BPO07, BPL06, BGS08, CD03, CJSS08, CD04, CWJ07, CPG04, CGMS06, CGN+07, CdHST08, CBKM00a, CBKM00b, CK03, CBB01, CTT08, CLL+07b, CJ07, CL00b, CP04c, Dar02, DBF08, DS06b, DGP00, DH07, DB04, Eld07, EHST03, EKBL09, EAY01, ES06, EKP06, GS05a, GS06a, GH03, GS07, GW02, GHB03, GSB03, GS05c, GBB+06, GKL03, Gui03, GLLX08, HAAO00, HWL08, HH01, Her09, Hor02, HS08c, HSL08, JBHK08, JHSZ07, KKCF09, KB04, KPP09, LGP09, LC06a, LS02b, LDN04, LLIK01b, LJ09a, LS00, LW07, LH08a, LF04, LC03, LL08b, LZH+06, Mac07, MKM99, MP07a, MKLU05, MG07a, Meh04, MSYL00, MP01b, MAL09, NCW+09]. **D** [OTCM08, ORM06, OJW06, ON08, PAD07, PSC04, PCP08, PVPS09, QS07, RWWS07, RW08, RKE+07, Rom02, Rom07, RMF08, RFVP09, RVVL09, RW03, SROCdPFF05, SWG08, SMP01, SL07a, SA09, SPLM09, Stu01, SP00, TJS03, TS02, TPR05, VGS04, VL07, VBL07, VGZB09, VGBZ09, WGSL06, WM09, WFC09, WZ09, XMT06, YM07, YBZ06, YJF+06, ZYKW01, ZZ01, Zha02, ZK05, ZJW06, ZJWC08, ZTPM05, dHRvdB07, dSMN+04, vDZ06, vZdBB07]. **D-leaping** [BCK09]. **d-quadratic** [CHL09]. **Damped** [Küm04b, Pro03]. **Damping** [HZ02, APT09, BCG09, CL06a, LH08b]. **Darcy** [EZ08a, BT09, GD07a, TC09a]. **Darcy-flux** [EZ08a]. **Darwin** [SG06]. **Data** [DCS00, GZ07a, Gut00, KFH+04, LCS02, Mac00, TK02, WPM+02b, DEHL06, DS08, GZ08, GD06a, GSK06, HS07a, KFIG06, KSJ03, KE09, RR07, RA09, SS09b, TPVG06, dCNHSD07]. **Data-driven** [GZ07a, GZ08]. **database** [TZ07c]. **Daubechies** [NG06a]. **Davidson** [BPS03, CL00b, SWTM01]. **dbar** [KMS04]. **dbar-equation** [KMS04]. **DC** [SUW01]. **De-aliasing** [KK03b, SVB09]. **dealloying** [EE08]. **deblurring** [CJLS09]. **decaying** [KMSH08, TMD07, YGL05]. **decision** [SMSS07]. **decker** [FK09a]. **decomposed** [Ber04, BUEG06]. **Decomposition**

[BC02a, IK01, PS02, QS02, Stu01, Sum00, AV05, ABLS05, ARRS09, AAC07, AL06, BIW04, BCHL07, BL09b, BT07a, BT07b, BB09b, CC03, CELS07, CRB+08, CWD08, DDK06, DLP08, Edw06, Eg07, ES03b, Gom08, IQT08, KKCF09, LVL05, LDL+09, LJ07, NPH09, NL09, OMK09, PA05, SZB+07, SDR07, STD+05, SJC07, SXyWX09, TET09, VZSL07, WL03, ZT07a, ZSP08, dCNHSD07]. **Deconvolution** [AS02, AHF04, HBLD07, HAD06]. **decoupling** [GB08a, RVM07, SMAj08]. **Dedication** [RP08b]. **deep** [SW08c]. **deep-atmosphere** [SW08c]. **deeply** [BLW04]. **defeating** [Boy05a, Boy05b]. **defect** [CLL07a, KH08, PG04]. **Defects** [DDG02, VDM+02, HK06]. **deferred** [BLM03, HJM06, HJM07, JH08, LM04]. **Deflagration** [GP00b]. **Deflagration-to-Detonation** [GP00b]. **Deflated** [AMLC08, VSMW01]. **Deformable** [TC02, ZD00, CA06, LL07, ZEA06, ZD05]. **Deformation** [GH09, LLdlP+00, DLW06, FKK08, JA08, LS08, LQX06, MDM03, PS03b, SCRL08, VQLZ04, XMP07, ZK05, vZdBB07]. **deformations** [CGDT09, DT03, FGS09, MV08, ZFM08]. **Deformed** [AD01, AKL+08]. **Deforming** [VG02]. **Degasperis** [FL09]. **degeneracy** [GS05a]. **degenerate** [BAR08, WC08]. **delamination** [Oh04]. **Delaunay** [GS09b, LQX06]. **delay** [GKE04, KG03]. **delays** [BCK09]. **Deleted** [Boy02b]. **delta** [Bea08, ETT05, MG08, Sme06, Tow07, Tow08, Tow09a, Wen07, Wen09, YZLH09]. **Demonstration** [TWS02]. **dendrites** [TZ07b]. **Dendritic** [ART02, EKK02, GW02, PK00, ZH01, ART04, DQA08, TZ06, TZ07a, WLT08, ZGT06, ZVHP03]. **Dense** [Sni01, FY07, LMV04, LZL03, MEKS03, NFvS+06, SH07a, WWK05]. **dense-gas** [SH07a]. **densities** [BCDW06, SK08a, Sti05]. **Density** [BKR+01, CYKC01, Cul01, FS00a, FS00b, GBS00, GQ00, Lou00, NFvS+06, OS01, Pai01, SBGK00, Ver01, AT09, CCG08, Chr03, DBBP08, DSS07, FHW07, GS09c, HJFW04, HA09, IOTK04, Küm04b, LL05, LP06a, LF04, MP05, MP07b, MJ07, MDR07, NMM+07, NMH+07, Ni09, PS07d, RVM07, RVDM09, Ros03, Sam09, SF03, SD05a, SD05b, SE04, SDT08, Sur05, Tok06a, YZ07, ZSC06]. **Density-Functional** [Lou00]. **density-functionals** [Küm04b]. **Density-Stratified** [Pai01, SE04]. **Dependent** [AGH02, ACS00, ELW01, Gen01, Nys02, RTT01, VR02, AZB09, AFGM07, ACLS03, Ata04, BIW04, BH05, Bur05, CT08b, CJ07, DL04, DR09a, DKS+03, FD03, FKLY07, FH03, GN03, GP04, GK07, HDBW05, JBHK08, KW03, LWG03, LP04a, LB04, ML05, MU09, OPML07, RCD05, RRW05, SV07, Ten03, WRu03, WS04, YYF09]. **depending** [Tok06a]. **deposition** [AMH04, CK07, RRV06, ZK04]. **Derivation** [MvW08, SZ05, AI09, LT09a, OF06, SD05a]. **Derivative** [TT06a, CB03, Jar04, KYLB07, RC09b, ZW04]. **Derivatives** [ELC02, Giv01, BEE06, BHR04, Doh09, Gro06, Gro07, HKO07, MN04, MN17, ND04]. **derived** [MC07a]. **descent** [CSMH05]. **describing** [CLTA07]. **Description** [SUW01, CHBS04, HS09a, LGKP07, LL03b, LJS08]. **Design** [GGF03, HFO01, KHV01, LTL+09, SW00, WD07, XYK05, BHS03, CBGI09, FK09b, Hab04, Kuz06]. **designing** [ERVE09]. **detachment** [BHL+04].

details [DTS05a]. **Detection** [GKL00, AGSX09, HD07, PW07]. **Determinate** [Boy02b]. **Determination** [Dic08, GM01b, AKL+08]. **determining** [EN06, Pee03]. **Deterministic** [ELC02, BCCV09, Cha07a, GS05a]. **Detonation** [BJ02, BSJ01, GP00b, CDS04]. **detonations** [HAP06, TV08]. **detrended** [Ham07]. **develop** [LS05a, Rah04]. **Developing** [DZ00, DF00a, FE04, KSJ03]. **Development** [BW02, CKR00, CKR01, CR00, EKP06, FT06, FCB02, sKKRH03, MEKS03, SYC09, SSD00, Tol07, Tol08, WLC+06, Xu01b, YS07a, ZJS08, CS09, Hig05]. **deviational** [HH07c]. **Device** [DE02, CGMS06, CELS07, LSS+09]. **Devices** [AIRY01, MP01a, MP02, ST01, And09, CGMS03, CL03a, CL05, FH07, GS06a, dFGLS05]. **Dey** [NCW+09]. **df** [Chr03]. **DGBGK** [NJX08a]. **diagnosis** [HM09]. **diagnostics** [ACGV07]. **diagonal** [Boy05b, Lur07, Tol08, UL06, WC07]. **Diagonalization** [TR02a, CP06b, WC08]. **Diagrams** [DSS00]. **diameter** [AV03]. **diatomic** [Myo04]. **dielectric** [CDJ07, DBF08, DC07, EG08, Mar06, ZK05]. **dielectrics** [WC07]. **Difference** [AC00, ACY00, ADK00, ADK02, Azm02, BR09a, BC02a, Bla00, CS01a, CBB01, FVOMY00, FK02, GHV00, HLS02b, HGN00, JL02, JMP02, KMJ01, MP01a, MP02, MF01, MF00, Nic00, NC01, PK00, POS00, Rem00, SV00, TK00, VCP00, Vas00, VCTS02, VG02, WA02, YP01, ZZ01, AE03, BS04a, BG07, Boe05, BMDS05, BSP06, CHH06, CdHST08, CN05, CYS06, CS06, CS07d, Cui09, DMBS05, DBBP08, DS06a, FDD09a, FDD09b, FK07b, Gro06, Gro07, GH08b, GLT07, GL09b, GL08, HP04b, HWWL09, IK07, IM05, IM07, IQ08, JD09, JAK05, JM05, Jon05, Kim07, KPP07, KPP09, LG08, LJW09, LX07a, LMS04, LSS06, LVW06a, LLTA07, LS09, MN04, MN06, MN17, MST06, MSP+06, MGC06, MVO04, NI03, Nik06, NF09, PAD07, PYC04, PH06, PH08, Pir07, RB06, Rom07]. **difference** [SROCdPFF05, SHA08, SHWC07, SYG06, SS05a, SZ05, STZ07, SC09a, SS03b, SS05c, Sou09, SB03, zSW06, zS06, SN06, SCN07, SN08, TJ09, Tan08, TD07, TdAAP08, Tow08, Tow09b, Tsu06, VPMC04, VLW07, WG09, WF06, XS05a, XS05c, YMWM06, Yus06, ZZ07, ZH09, ZYHS07, dSHHM05, dVGLM09, CBKM00a]. **difference-type** [WF06]. **difference/spectral** [LX07a]. **Differences** [BBHM09, DF00b, Tol02a, Tol02b, Boy06, IOTK04, Kum04a, LRS07, MLSD07, Tow09a, WZ07]. **Differencing** [CM02, HH07b, Jor07, Liv07, LC06b, SZC09]. **Different** [WK01b, NW07, QKS06, SD05a, ZQ09]. **Differential** [AGT02, ABGV02, BCOS01, CKL00, GTD00, HMS08a, HMS08b, Hua01a, MF01, MOvL00, SCD00, Tuc03, VB00, APR09, AKV06, AGT05, Asl04a, BV05, CP03a, Chu09, DI09, EN06, GK03, GKE04, GBS06, HR01, HJM07, IAT08, IDD04, KG03, LP04a, LCdCN+03, MZ09, MP07b, MK08b, MSO04, MT04, Ngu07, Ngu08, PSD09, PCS+09, RBvdV08, RM08, SS08, SRNV07, SKW05, SG03b, TE04, VSG05, WK05, YZW05]. **differential-algebraic** [VSG05]. **Differentiation** [CSV00, BBB08, CP04a, GT05]. **Diffraction** [Kan02, WWVG00, BHS03, JY08]. **Diffuse**

[DSS07, Gla01, FGS09, Kim05, RRV06, Sof09]. **diffuse-interface** [Kim05]. **Diffusion** [AGT02, BKR+01, BMS00, CL00a, CWT00, DE02, EES09, GZ01, Gen01, HFO01, Her00, HGM01, JR07, JM00, KLN+01, Kul01, KT00a, Li01, MHS02, MR07b, MHS01, MKR00, NGC+07, OGV02, PK00, SWL00, SSC00, VDM+02, WDM01, vdSE00, AS03b, ACGV07, AZ06, AINR03, BAYZ08, BMN05, BBHM09, Bar04, BBDE05, BMT09, BHR03, BM07, BSW05, Bur05, BEG03, BB08b, CLTA07, CS09, CP04b, CF06b, CS07d, Chr04, CS04, Cui09, DPRN06, DGM07, DGH08, DL04, DUEB07, EULM03, FG04, FG05, FM08, GZ07a, GLM07, GT05, GL08, Her09, HG03, HMR08, HST09, IG05, JBHK08, JHSZ07, KZ04, KLM07, KSS09, LT05, LG03a, LH05a, Lar07, LWG03, LLC06, LCW04, LLOT06, LDW07, LS05a, LX07a, LMS04, LSS06, LSSV07, LSV09, LOK05, LLGL07, LGM08, Low04, MJ09a, Mad06, MM07]. **diffusion** [MP07a, MEKS03, MMKP08, Maz06, MP07b, MG07b, MSP+06, Moo03, Moo07, MT07b, MK03, NV09, NZ05, NPC09a, NPC09b, Nis07, OS04, Ols07, PSZ09, PS07b, Pud06, RSM05, RBH03, RSO04, RS05, RS09a, SCT09, SW04a, SH07c, SO08, Sou09, SPLM09, TMS06, TM07, TD07, VSV03, VSH04, WG06, XS09, You06, YA05, YS07c, YS08, Yus06, dFGLS05, dFJS09]. **diffusion-controlled** [IG05, LG03a]. **diffusion-reaction** [MMKP08]. **diffusion-type** [Lar07]. **diffusions** [Buc05, LN09]. **Diffusive** [Azm02, JP00, TAL09, XS05c]. **diffusivities** [PSZ09]. **Diffusivity** [ML01b, FL07, KL08]. **digital** [KSJ03]. **dike** [LTD04]. **dilatation** [BS04b]. **dilute** [DFV08, Fox08]. **Dimension** [HA02, JWSC00, BFT07, Boy03, CDDL09, Cec05, COQ06, GZ08, JW03, Min03, Min04, WO05]. **Dimensional** [AJG01, ART02, ACS00, BMR01, BMRS01, BMRS02, BdLL01, BZW01, Cal02, CRB00, CWT00, CMOV02, CD00, DMG00, DCV+01, Del01, DK02a, DOWB01, Eli02, FVOMY00, FS00a, FS00b, Goe00, HK01, JW02, KK00b, KP00, LL00, LCS02, LK01, LMS02, Lou00, LWEM00, MR00, MR02, MC02, Pai01, PKvdB00, PL01, PWS+02, RV00, SHWW00, SJ02, Sni01, VD00, VD02, VS02, WK01a, WL02, Yua02, ZSP02, ZYC02, AvdB04, ARRS09, ART04, AK05, AV03, AC05, AB03, ABK09, AI09, AT09, AMS04, AMSZ07, BTW04, BFC04b, BS04b, BS04c, BDCG03, BM07, BBK07, BH05, BH04, BHP07, BL03, BCI+08, Cap06, CQO04, CKPW07, Che04, CC07, CSO09, CR09, CFGK05, CY05, DCF+08, DIL03, Dim07, DLP08, DI09, DS09b, ECL02, Eli03, Eli07, FNS07, FRS08, FS09]. **dimensional** [FHLK05, FCGK05, FKK08, GS09b, GB03, GP04, GGP06, GWF+07, GM04, Gos04, GM06, GKE04, Gro06, Gro07, Gui05, HT07, HZ08, HZGB05, HP04a, HD07, HAP06, HS08a, HT03, HGB+03, HLWW04, HLWW06, HWW07, IHL03, JVVS07, JX06, JN07, JW09, KKS05, KSHS08, KK05c, KK05d, KLK08, KAK03, Kro01, KLP+09, LKD04, LG09, LSD07, LWP+09, Lee03, LZ09c, LDW07, LDPL08, LS05a, LR07, LT09b, LL03c, LTD+06, LVW06b, LTC07, LL08a, LDV08, LJ09b, LP04b, Ma05, Mai09b, Mai09a, MMS04, MRRS05, MSJ07, MST06, MP03, Men04, MR04, MG08, MT07b, MGNB09, NTYT01, NTYT02, NTB07, NFA03, ODAF06, Ols07, OLLL03, PKKL05, Pon09, PA07b, QS04, QLK07, RB05, RRC05, RS06a, RC06, SKWN03,

SBGK00, SSND03, SS07b, SP06a, SK04b, SCRL08, SS04, TM07, TOZP03, TM05, TPV07, TXCD07, TT04]. **dimensional** [TT05a, TOY09, TC07b, TC09b, TG08, TA06, UL06, VGCN05, VVS08, VCG03, VD03, Wag05, WK04, WZL04, WW04, Wen09, Xia04, XAI06, XHW07, XG09, YAvdB+08, YYT05, YXLF05, YKK08, YW07, ZWS07, ZP05, ZH09, ZLAC05, Zhe06, ZQ09, ZT07b]. **Dimensionality** [MN09b]. **Dimensions** [BCMO01, LTZ01, LTZ02, Nys02, RW00, SWL00, TNR02, CM06, CHL06b, CCG+06, Che07, DLW06, DR09b, EES09, GG04, GS08, GH02, GD06b, HLO08, HB05a, HB05b, JBF07, KLM05, LLP07, kM07a, MCG08, MR05, Moo03, Moo07, NWZL08, RS06b, SBCL06, Shy06, TTZ03, TT05b, VWW04, Wan04a, WO09, YBZ04]. **Diodes** [deM02, BMK+06, DGM07]. **diphasic** [Del07]. **dipole** [KDK+07]. **dipole-wall** [KDK+07]. **Dirac** [BL04, ETT05, HL06b, HJM+05, MG08, WT07b]. **Direct** [BRL02, CSS00, FLG01, FLM08, GPH+01, HdGKG08, HPZ01, HHM04, JLCD01, KB00, KH07, PG02a, PWS+02, Ros09, SW08a, SP04, SL04, SCW+09, SB02, Tak06, UL06, ZS01, AMH04, BHL07, BALW06, CTW+08, Chu09, CP04c, Dom08, FM05, FE04, GS06a, HK08a, HM05, JD04, KK09, KHdT+08, KSJ03, KS07, LDV08, LQ06, MTWW06, MC06a, MR05, MR07a, Mot08, Pet07, Pro05, SMS08, SP05a, TWM07, Uhl05, WMH07, YS07b, ZKDT07, ZZ07, ZD08, GKJW07]. **Direct-expansion** [Tak06]. **direct-forcing** [YS07b, ZZ07]. **direction** [CSMH05, SMAj08, ZXQX08]. **Directional** [NTYT01, NTYT02, SZ01, BF08, KW08b]. **Directionally** [BST01, BST03]. **directly** [BT03, CS07b]. **Dirichlet** [Bia03, GP04, GK04, Gui03, HW05, Hel09a, HO03, JM05, Mil08, NR01, SSN09, TB00a, YLA08]. **Dirichlet-to-Neumann** [GP04, GK04, Gui03, TB00a, YLA08]. **Dis** [BBvdV06]. **disc** [Hei04]. **Discharge** [CYKC01, KMA+01, hLA01, DMR09, SHPC09, SS04]. **Discharges** [HK00, HMM02, SPC01, PSCB08, SMSS07, UBRT07]. **Discontinuities** [Asl01, NFK01, BFT07, Boy03, FH03, HN03, kM07a, Pri08, TJ09, THS07, VVS08, WAO+04]. **Discontinuity** [AGSX09, WC01, KL08, KYLB07, ZGG03, Zho07]. **Discontinuous** [BSJ01, BT02, BSB01, DPCV02, Gab07, GHW02, HH02a, HA02, Hub08, LS00, LZC04, Mac07, MPFC08, PL01, RH01a, RBvdV08, YS06, vdVvdV02, Ain04, AB07, BCDR06, BDHN09, BRC+09, BTT08, Ber04, BG05b, CT04, CDI09, CC07, CELS07, CS07b, CS08b, CHG+07, CLS04, CQRW05, CFP06, DD09, DLP08, DF04, DBTM08, ES06, FCJ08a, FCJ08b, FK07a, FOLD05, GLM07, GLMH09, Gir06, GR08, HH07a, HH08, JH06, JW06, KCGH07, KvdVvdV06a, KvdVvdV06b, KvRvdVvdV07, KWBH09, Kri07, KWD07, KDW08, LGHD08, LSY04, LSZZ08, LJS08, LY06, LX07b, LGM08, LBL06b, LBL07, LBL08, MRC06, MR06a, MGCR07, MN06, MHI08, MZ07, MESV09, NM06, NL08, NPC09a, NPC09b, OK04, PvdV08, QS04, QKS06, QLK07, RBS06, RC09b, SFE07, SMB09, WM07, WM09, WG09, WKG06, XXS07, XS06, XS05b, XLS09a, ZZFW06]. **discontinuous** [ZQSD08, ZQ09, vdVX07].

discontinuous-Galerkin [KCGH07]. **Discontinuous-Pressure** [BT02]. **Discrete** [AS03a, BSJ01, Coe02, FF02, FGG01, FHLO08, GC02a, LL01a, MD02, Mar09, Mie00, PS07b, Poz01b, RTT01, SZ08, SS00, WPW02, AST09, BBC+06, Bea08, Boy06, BL03, CLS+06, CL07b, CT07, EULM03, Fen06, HV03, KWD07, KT00b, KSS09, LGP09, LK09, LC06b, MN09a, MY06b, MGS09, MD06, NZ07, PS07a, PA07a, PCS+09, RVDM09, SFVK06, SC09b, WZ07, YZLH09, ZXQX08]. **Discrete-element** [Mar09]. **Discrete-Velocity** [Mie00]. **Discretely** [RC00]. **discretisation** [RJM07]. **discretisations** [Bal08]. **Discretization** [Bar02b, BMS00, DMR09, Edw00, ETT05, FMO00, GFCK02, JP00, LBV00, MHS01, NE05, PYC04, SC01, Tót02, Zha02, AMR06, AB07, AB03, AKO09, BAYZ08, BB07a, BP03, BMDS05, BSP06, CS08a, Dar02, GF05a, HH08, IS04, JHSZ07, KK05c, KYK07, LL05, LSS06, LCS09, ML06a, MVD04, MKKY06, MZ07, MHPR08, NOG08a, Ols07, PvdV08, RBSL06, RWWS07, RS09b, SVB09, SP06a, TAL09, VV03, VK09, VWW04, Wan04a, BT07b]. **Discretizations** [Boy02b, WK01b, ZDNP00, AD04, BHvdV06, CFR09, DWLM09, DF07, EV03, FDD07, FOLD05, FD07, HMPR07, KvdVvdV06a, KvRvdVvdV07, KWD07, MGS07, MG08, MAN+06, NFGK07, SMB09, TW05, TR07, WM07, ZT07b]. **discretized** [Chu09, DLP08]. **Discretizing** [Tow09a, Tow07]. **disease** [NLT07]. **Disk** [BD01, WB01, BK08, LT05]. **Disks** [dlFMBdlFM02]. **dislocation** [SFVK06, WGSL06]. **Disperse** [PO01]. **dispersed** [DDK06]. **Dispersion** [CL01b, MBP00, PFB01, VBL07, ZF02, CS09, CLS09a, FK07b, Kok09, LS05a, LLTA07, MST06, PSG05, SLV09]. **Dispersion-Relation-Preserving** [CL01b, CS09, CLS09a, LS05a, PSG05]. **Dispersive** [Ain04, CL01c, SW08b, BN04, BBMB07, BB04b, CJSS08, GP04, KSH+06, LSY04, LZC04, MY09, MGS09, PC08, ZH09]. **dispersively** [SYC09]. **displacement** [VQLZ04, ZVQ07]. **Displacement-driven** [ZVQ07]. **disposal** [KP07]. **Dissipation** [SVB09, Xu01c, YVD00, Dwi08, LJ09b, PDHP07, PK03, PM08, RV09, TDWY08, VBL07]. **dissipationless** [ZGG03]. **Dissipative** [HJJ09, LMH07, MF01, MPFC08, WHV+00, Ain04, AWK07, BBMB07, BB04b, PK05, VHI05, VHI06, YS07a]. **Dissolution** [JVVS07, EE08]. **Distance** [MS01, RS00, hRT02, BBK07, JC06a, Tuc03]. **Distorted** [Her00, YS07c]. **distortion** [KK09, ZJW06]. **Distributed** [SPT05, BYZ04, BG05a, Boy06, CV06, DLMK04, LJSM08, VB08, WZ07, vdDA06]. **Distribution** [Abg06, CRD02, JK02, WB01, AM03, AM04, CS06, CS07d, DPRN06, GW06, Hub08, NFvS+06, Nis07, RCD05, RAD07, RB09a, Ros08, SH07a, ZZ09]. **Distributions** [CVB00, Pop00, VS07]. **Disturbance** [DC01, Sur05]. **Divergence** [Bal01, Bal09, DKK+02, MOS+00, SCC09, Tol02a, Tol02b, TR02b, AT05a, AT08, BRDM09, CLS04, CEL06, LL04b, LD04, NMS07, TA06]. **Divergence-** [TR02b]. **Divergence-Free** [Bal01, Bal09, BRDM09, CLS04, LL04b, LD04]. **divergence-preserving** [AT08]. **DLM** [SL07a, Yu05b]. **DLM/FD**

[SL07a, Yu05b]. **DNA** [GPL05, vHBB02]. **DNS** [DHM07, KIH09, Pro07, YGL05]. **DNS/LES** [DHM07]. **Domain** [ARRS09, BIW04, BC02a, BCM09, CR08, CBB01, CC03, DDF01, GHV00, GPH+01, HW02, MKL06, PS02, POS00, Rem00, SZB+07, Stu01, VDM+02, YP01, AvdB04, ABLS05, AA09, AL06, BCHL07, BG05a, BSLN09, BP08, BUEG06, BB09b, CdHST08, CELS07, CTT08, CWD08, CFP06, CD07, DDK06, DGMN03, DLP08, FLE03, FK07b, HZ08, IQT08, JM05, KF06, Lau04, LW06, LVL05, LL04a, LT09a, LS09, LJ07, MVD04, MLSD07, MJ06, Mil08, MPFC08, NPH09, OMK09, PAD07, RAB07, RMV03, RJ04, SDR07, SHWC07, STD+05, SWZ03, SPT05, SL07b, SC09a, zSW06, zS06, SXyWX09, TZ06, VPMC04, VW02, VMN07, VS07, VZSL07, Wag05, WC08, XMP07, YCL05, YSW06, YS07b, ZH09, ZSP08, ZW06, dSHHM05, dHRvdB07, PP09]. **domain-decomposition** [BB09b, LJ07]. **domain-type** [BSLN09]. **domain/finite** [DGMN03]. **Domains** [ACS00, BC01, BW01, BMQS02, CR02, GFCK02, Goe00, HJ02, LFK00, MCJ01, PR01a, AST07, AC05, ACLS03, BB08a, BP07, CGDT09, CHCOB09, DD03a, DD03b, GS07, GF05a, GLLN07, GLLN09, IDD04, ILL09, KZ06, LG09, LF05, Mad06, MM07, MG07c, NN04, PL08, SS08, SC08b, YBZ06]. **dominant** [Edw06, TW07]. **dominated** [KIH09, TB06]. **dot** [HLWW04, HLWW06, VTW+07, Vos06]. **dots** [HWW07]. **Double** [Che00a, Che00b, CKGL02, CKG04, LS03]. **double-Fourier-series** [CKG04]. **downwind** [LWW04]. **DPD** [FPK08, SK06]. **DPEM** [LJ09a]. **Drag** [HGM+00, MK02a, LH05b]. **Drift** [BMS00, BZB00, DE02, BBDE05, DGM07, ESD05, GBB+06, GD07a, dFGLS05, dFJS09]. **Drift-Diffusion** [BMS00, DE02, BBDE05, DGM07, dFGLS05, dFJS09]. **drift-kinetic** [GBB+06]. **Drift-Wave** [BZB00]. **drill** [CP03b]. **drill-string** [CP03b]. **Driven** [AQV02, APQ02, DGA08, EAY01, SZ01, Str01b, AK05, CBJdlC07, DTS05a, DTS05b, GZ07a, GZ08, GGP06, HKM08, MY07, MP05, ML04, OK06b, Pau07, Pop09, RWMK03, SW04a, VQLZ04, ZVQ07, ZZ09, VS09]. **Driven/Time** [VS09]. **Drives** [WB01]. **Drop** [CBL01, CB09, JA08, YFLS06, ZK05]. **Droplet** [BW02, SR00a, JS05, KH07, LKMU05, NTB07]. **droplets** [RGS04, SW08a, WSI08]. **Drops** [HLZ02, ZD00, JA08, YZF07, ZD05]. **Drum** [OS01]. **dry** [GPC07, Vol04b]. **drying** [SHTB09]. **DSC** [WZ07, Boy06, SWZ03]. **DSMC** [AA02, GTRB09, GMAj09, Mac01, Mac03, MY07, OC08, SL04, WLC+06]. **Dual** [GHG01, ZTZ02, CGH05, CS09, HC08, Hua07, LJ07, MKKY06, NPH09]. **dual-compact** [CS09]. **dual-field** [LJ07]. **Dual-Reciprocity** [GHG01]. **dual-time** [Hua07]. **dual-time-stepping** [HC08]. **duct** [Ata04, DB04, HY09, HY11]. **due** [BBF+08, Dwi08]. **Duffing** [LTD+06]. **Dust** [dlFMBdlFM02]. **Dusty** [Sai02]. **Dusty-Gas** [Sai02]. **Dyadic** [CY00]. **Dynamic** [DIV00, EH02, GC02b, HF08a, MKM99, MKM04, SM06b, THN+07,

vdVvdV02, AZB09, BIW04, BS03b, Che04, CSKD05, DDM07, DEHL06, FDD07, FDD09a, FDD09b, Fen06, Gra06a, HBLD07, Lap03, LDN04, LKE04, LQX06, LP06b, MG05a, MY06b, PKKL05, PS03b, TLAD04, YKG04].
Dynamic/Thermodynamic [GC02b]. **dynamical** [AS05a, BBF+08, CBJdlC07, SW08c, Thu08b]. **Dynamically** [CH01, Eld08a]. **Dynamics** [Bar02b, BSJ01, BZW01, CPP02, DPR00, DPRS01, DGA08, GK02, Hun01, LR01a, dlFMBdlFM02, Poz01a, QRHD00, SSL00, SZS01, TTSG01, TSG02, VCG03, VCTS02, WHV+00, YSC01, Yon01, ZSP02, deM02, Alb08, Alb09, AWK07, ALT08, AKP07, BIW08, BLS08, BW06, BPMR08, BS04b, BBvdV06, BDCG03, BOK+06, CFM09, CELS07, CJR04, CDL04, DSJ03, Dim07, DTS05a, DTS05b, DST07a, DDDC07, Eld07, ES03a, ET06, FS04, GFS08, GCCD07, GV06, GPL05, GT09c, Har04, Her05, Hew03, HS04, IAT08, JG09, KKM08, KFH+04, KG09, KK05a, KLW09, KP05, LLP07, LM04, LPK05, LRS07, Ler06, Li08b, LSK06, LL06a, LLZ07, LW04, LMH07, LZH+07, MGCR07, MC07a, MPD08, ML04, MK04a, NDT06, OK07a, Pal08, PGB05, PC08, Pau07, PPCW06, PK05, Pro03, RCT07, RFFP06, SKR06, Sam09, SDS07]. **dynamics** [SLF08, SHY07, SFVK06, SHP07, SS09c, Sto07, SC08b, TS04, TCO+04, TPR05, VS09, VGZB09, VGBZ09, Vil08, VHI05, VHI06, VCM00, WGSL06, WZ03, YWC07, YHSX07, YZL+06, YZF+06, ZGK09, ZRS06, dWKL07, vLAvdV06, vZS07]. **dynamics/continuum** [JG09]. **dynamo** [XSG04, XSG08]. **dynamos** [TFD06].

Earlier [Mac00]. **early** [CGN+07]. **earthquake** [BIW08]. **easily** [MKLU05]. **Eddy** [FLG01, FG02, KK00a, LLQ+02, ME09, Nov04, PPC00, TSB01, AD04, BBB08, BS03b, BO04, CM03, CSKD05, DS09a, EPW08, FDD09a, FDD09b, Gra06a, Gra06b, HBLD07, HP04b, KSJ03, KDC05, LP06b, Liu09c, LDV08, MCM04, MLM09, MGS07, MBP07, MMPB07, MHdB07, NLF03, PDHP07, PYC04, PM07, RMG+09, SSW+07, SFMP06, TSB03, TMD07, VK09, XLP05, YB06]. **eddy-current** [EPW08]. **Edge** [MP01b, RXH02, WS01, BHvdV06, LLB05, MP08, SS05b, VTW+07]. **Edge-Based** [WS01, SS05b]. **Edge-Plasma** [RXH02]. **edged** [YZW07]. **Editorial** [Ano00-29, Ano01-29, Ano02-29, Ano03l, Ano04a, Ano04b, Ano04c, Ano04d, Ano04e, Ano04f, Ano04g, Ano04h, Ano04i, Ano04j, Ano04k, Ano04l, Ano04m, Ano04n, Ano04o, Ano04p, Ano05a, Ano05b, Ano05c, Ano05d, Ano05e, Ano05f, Ano05g, Ano05h, Ano05i, Ano05j, Ano05k, Ano05l, Ano05m, Ano05n, Ano05o, Ano05p, Ano05q, Ano05r, Ano06a, Ano03a, Ano03b, Ano03c, Ano03d, Ano03e, Ano03f, Ano03g, Ano03h, Ano03i, Ano03j, Ano03k, Ano03m, Ano03n, Ano03o, Ano03p, Ano06b, Ano06c, Ano06d, Ano06e, Ano06f, Ano06g, Ano06h, Ano06i, Ano06j, Ano06k, Ano06l, Ano06m, Ano06n, Ano06o, Ano06p, Ano06q, Ano06r, Ano06s, Ano07f, Ano07g, Ano07h, Ano07i, Ano07j, Ano07k, Ano07l, Ano07m, Ano07n, Ano07o, Ano07p, Ano07q, Ano07r, Ano07s, Ano07t, Ano08a].

Editorial
[Ano08b, Ano08c, Ano08d, Ano08e, Ano08f, Ano08g, Ano08h, Ano08i, Ano08j, Ano08k, Ano08l, Ano08m, Ano08n, Ano08o, Ano08p, Ano08q, Ano08r, Ano08s, Ano08t, Ano09a, Ano09b, Ano09c, Ano09d, Ano09e, Ano09f, Ano09g, Ano09h, Ano09i, Ano09j, Ano09k, Ano09l, Ano09m, Ano09n, Ano09o, Ano09p, Ano09q, Ano09r, Ano09s, Ano09t, Ano09u, Ano09v, Ano09w, Ano09x].
EDQNM [BBB08]. **Effect** [LGP09, NOG08a, WB09b, de 00, LY06, PAD07].
Effective [DLD08, LM01, PSN00, CSL08, GGRS08, LM03a, LWF+08, MTWW06, MCP03, PSZ09, ZC09]. **effectiveness** [LC06a]. **Effects** [LSD07, NF09, SMAj08, VLKM02, YE07, AINR03, DM03, GS05a, HC08, HS07b, ID04, LGKP07, LLZ07, MP07a, ML08, PS05, SS03a, WWC07].
Efficiency
[CGMS06, RRV01, Cam03, EKP07, LDPL08, MJ06, SROCFF03, SFVK06].
Efficient
[And09, AST09, BLS08, BRDM09, BCL06, BY07, BCDW06, BST01, BIVC07, Bus00, CWJ07, CH01, CFR09, Che07, CSMH05, CSV00, DH04, DDF01, DGP00, FPC+00, FGOV00, GK02, HPS06a, HWL08, HBHS09, HPS+06b, JD04, JW09, KS02b, KB00, KB01, KAS08, LKE04, LCB09, LMS02, NJX08b, NZZ06, Ols07, OJW06, PHW08, PA07a, PC02, RH01a, RA09, Ros07, Saf02, SHS08, Sch08, SZS01, STiST02, TK02, Tok06b, VCT09, WLT08, WZ03, XS09, Yok07, ZD00, vBRK01, AR08, BL04, BW06, BMT09, BJ09, BSLN09, BB09b, BH04, BP07, CLG07, CRAG07, CP06b, CP06c, CW08, CFGK05, CWD08, DBF08, EKBL09, Fan08, FWR07, FCGK05, GN07, GV06, GTMC08, Gri09, HNF07, HS08b, HWWL09, HDR+06, IH04, JRS05, JL04b, KK05c, KK05d, KK07, Kro01, KSW03, KR09c, KS07, KLP+09]. **efficient** [LL09, Lar07, LLRP09, LZH+06, MNR07, MBP07, NG06a, NMG09, RWMK03, SPB09, SWB+06, SF03, SE09, SY09a, TAL09, VPMC04, WT07b, ZL04, ZZ08].
efficiently [EKP06]. **eigen** [CJSS08]. **eigen-oscillation** [CJSS08].
eigenelements [LM08b]. **eigenfunction** [GKE04]. **eigenfunctions** [Hau08a, Hau08b]. **Eigenmode** [CL00b, DMG00]. **eigenmodes** [DD05, LL04a]. **eigenpairs** [GB08b, Ovt08]. **Eigenproblems** [Boy02b, GG00]. **Eigensolution** [HA02]. **eigensolver** [CGC+09].
eigensolvers [VTM+08]. **Eigenvalue**
[AKV00, Mit00, BBD04, CC03, DL03a, NU09, SP05c]. **Eigenvalues** [Mit00, Hab04, Heu03, VCT07]. **Eikonal** [LSZZ08, QS01, CT08b, FLZ09].
Einstein [BT03, BJM03, BW06, BCL06, BS08a, CHH06, CKLS05, CLS05].
ejection [KFV07]. **Elaborating** [vEB05]. **Elastic**
[Bon00, BG09, GF02, HB02, LLN00, LAS01, MC01, WP09, APT09, AK06b, BS08b, BCZ04, CLS+06, DLW04, DLW06, GH09, GFS08, HMMR04, HK08c, HS08c, IQT08, LS08, LP04b, TLL+08, TC07b, TC09b, XCY06, YAvdB+08].
Elastic-Plastic [GF02, HB02, MC01]. **Elastic-wave** [BG09]. **Elastically** [ATV01, LN09, RRV06]. **elasticity**
[BDRT09, Hau08a, Hau08b, MHPR08, YHCD05]. **elasto** [BZ04, ZVQ07].
elasto-plastic [ZVQ07]. **elasto-thermo-viscoplastic** [BZ04].

Elastodynamic [Gro00]. **Elastodynamics** [PKvdB00, CCV03].
elastoplasticity [SKS08]. **Electric**
[CP03b, GG00, HR08, AvdB04, AINR03, GFG09, HPS06a, HF08a].
Electrical [CCT05, GKL00, HCG01, SPC01, IKL+08, LWW04, SMSS07].
electrically [AL06, FH03]. **electro** [KK03a, Mar06, WWC07].
electro-osmotic [WWC07]. **electro-static** [KK03a, Mar06].
electrocardiology [GGMN+09]. **electrochemical** [BP07].
electrodeposition [SS08, ZSB+08]. **electrodynamics**
[BS05, BS06a, MGS09]. **electrohydrodynamic** [TGB+07, ZK05].
electrolyte [CKPW07, SXyWX09]. **Electromagnetic**
[BEPT09, CY00, CBB01, CP07, CL00b, FM06, HAAO00, HKM07, Kan02,
OMG02, PL09a, SZ01, SFW00, Vay01, VQSZ02, AKL+08, AV03, Bet08,
Bot06, CJSS08, CP03c, CT07, CSML06, DS09a, EG08, FCJ08a, FWR07,
GH08a, Hoh06, KT06, LZL03, MRRS05, MLFG06, NCW+09, OMK09,
SHWC07, SC09a, VZSL07, Woo06, ZSW03, ZW05, ZH09, dSHHM05].
electromagnetics [Bér07, SCC09]. **Electromigration** [AIRY01, AIR03].
Electron
[HK00, Saf00, Saf02, BBF+08, DGM07, ED07, GS05a, GLS03, GM04, Gos04,
GM06, HBHS09, JP03, KB04, PPCW06, PA05, RRC05, SMSS07, dWKL07].
electron-molecule [SMSS07]. **Electronic**
[CWWZ00, LCG07, TR02a, BCHL07, CGL06, HBHS09, KKCF09, Küm04b,
LZ07, VTM+08, WBM09, YMW06]. **electrons**
[CP03c, Hag07, Kwo08, MK04a]. **Electrophoresis** [vHBB02].
Electrophysiology [Ota00]. **electroseismic** [GH08b]. **Electrostatic**
[BISS01, BZB00, GBS00, HF01, GS09b, KKD08, LSA06, LWW04, LCM07].
Electrostatics [GL06, AA07, GPVB07, XJ07]. **electrothermomechanical**
[LTM09]. **Element**
[BMR01, BW01, CHR01, CWT00, Cod01, Dur00, GM01a, GP00a, GHG01,
Han00, HH02a, HCG01, LTZ02, MPP01, OMK09, PX02, SC01, Stu01, Whi00,
WK01b, YMF01, ZYC02, ZH01, vdVvdV02, AH08, Ain04, AMR06, AG09,
BAYZ08, BHL+04, BMN05, BGN07, BGN08, BGM08, BS04b, BBvdV06,
BS03b, BS04c, BT06, BHvdV06, Boy04, BEG03, CJSS08, CCG08, CLG07,
CCV03, CL03a, CXZ09, CS07b, CLL+07b, CS08b, CJ04, CBH03, CQRW05,
CHPR09, DR06, DW09, DGMN03, Dim07, DF04, DBB06, EGHE06, EE08,
ÉGP09, FHW07, FEL+05, FK06, FHLO08, FD03, FWR07, FWK08, FBHV05,
Fou06, GPF03, GW05, GR08, GCCD07, GR07, GV07, GLLN09, GLT07,
HPS06a, HS09a, HZGB04, HZGB05, HPD09, HdGKG08, HY09, HY11,
IDD04, IHL03, Jar04, JBF07, JZ08, JLL+06, KCH06, KW06, KR09b, KB08].
element [Kuz06, KSS09, KS07, LFSS07, LW06, LJSM08, LCW04, LL06a,
LLZ07, LSS+09, LM08c, LNXNTX09, Liu09c, LY04, LJ07, MY06a, MZ08,
MK08a, Mac07, Mad05, MWM03, MR06a, MGCR07, Mar09, MB04, MP03,
MCN03, MDM03, NV09, NLLE06, OVG07, PP09, PR04a, PvdV08, PR03,
PR04b, Pon06, Pon07a, Pon07b, PR06, QP03, RBvdV08, RRW05, RFFP06,
RJ04, SB06c, STD+05, SM06b, VW02, VCM00, WK05, WK04, WLT08,

WZL09a, WZL09b, WGRA09, XJ07, XP04b, ZGT06, ZYL+06, ZHSS09, dFJS09, vOP04, vdBG09]. **element-finite** [IDD04]. **element-wise** [CBH03]. **element/finite** [SS06a]. **element/volume** [GV07]. **Elements** [BT02, BS00d, CGSS00, CSP01, HL01, KT02, MP01b, PW00a, PC02, PG02b, ST01, WPH00, WB09b, AK07, BJP04, CHL09, CP04b, CGC+09, CH08, GLMH09, HK08a, HMMO05, KLP+09, LJW09, Mad06, NL08, Pon07b, SGG+04, SG03a, VZSL07, WHS08, YZF+06]. **elevation** [VTT08]. **Elimination** [JTB02, GCLB04, LY07b]. **ELLAM** [LDW07, LTC07, WLE+00]. **ellipses** [DTS05b]. **ellipsoidal** [LKMK09]. **ellipsoids** [DTS05b]. **Elliptic** [Che00b, OKL01, SC01, Xu01a, ABLS05, APQ03, AQ07, Ber04, Bor07, BL05, CFS09, CHL09, CT04, CC03, CGDT09, CS08a, CXZ09, CS07c, DIL03, DT03, HO08a, Hel09b, Heu03, HL05, JLT03, Kau03, KS07, MY06c, MD06, Ngu07, Ngu08, NvL03, OK06a, OSK09, PSM08, PC06b, Str07a, VK05a, YBZ06, YH07a, YZW07, ZJWC08, Zho07, ZZFW06]. **elliptic-hyperbolic** [PC06b]. **elliptic/hyperbolic** [NvL03]. **elliptical** [MTH08]. **elongated** [MR07a]. **elongational** [DMHP07]. **Embedded** [MCJ01, Bet08, CD03, CGKM06, DND06, JM05, KL04, NA08, OK06a, SSN09, SBCL06, VB09, YB06]. **embedded-boundary** [NA08, VB09, YB06]. **embedding** [RM08, dHRvdB07]. **Emden** [PSD09]. **Emitter** [ST01]. **Emitting** [deM02, BMK+06]. **Empirical** [CWWZ00]. **emulsion** [ZD08]. **emulsions** [KH07]. **Enablers** [BBI09]. **enclosed** [LS08]. **energetic** [CDS04, HS04, YFLS06]. **energies** [ED07]. **Energy** [BV00, Bar02a, BKR+01, BS00d, CRB00, CBKM00a, CBKM00b, FK02, HK00, JTB02, LW01, LW04, MR03, RSSL09, SC01, SNLS03, VP00, YC09b, BT03, Bur05, CLS05, CL03a, CL05, CL08d, DSM09b, DST07a, DLW04, DLW06, DOW08, ESD05, FL06, HM09, HDBW05, HK04c, KJ09b, KPP07, KPP09, KLSW09, LRS07, LLZ07, Mai04, MY09, NG06a, Oh04, QFR04, RC09a, RSS09, Rom07, SKK+08, SLG+03, SHP07, SC09b, TDWY08, Vos06, YC09a, YMW06]. **Energy-Conservative** [CBKM00a, CBKM00b, FK02]. **energy-conserving** [MY09]. **Energy-Preserving** [LW01]. **energy-stable** [KPP09]. **energy-transport** [CL05, Rom07]. **Engineering** [PVR07, Lap03]. **enhance** [LXM09]. **Enhanced** [EKP07, GE07]. **Enhancing** [FHD+09]. **enlargement** [ZSW07]. **ENO** [WH02, CS07a, EAY01, GSD01, SM04, UTBV03, VS02]. **ENO-Padé** [WH02]. **Enriched** [CWYM08, vdBG09]. **Enrichment** [Dys01, ZWL02]. **Ensemble** [LP08, LX09, ZIP06]. **Enslaved** [JMP02]. **enstrophy** [KJ09b]. **Entanglement** [RS02, Kar04]. **entanglements** [LMK03]. **entries** [LAKD08, ODAF06]. **entropic** [DGM07]. **Entropy** [CL01a, Gos02, RS02, Rom02, SLY02, YVD00, Abr06, Abr07, Abr09, FDK06, GG09b, HM04, IR09, Ser09, TDWY08]. **Entropy-Conservative** [CL01a]. **entropy-consistent** [IR09]. **entropy-fix** [Ser09]. **entry** [DB04, LZ09c]. **envelope** [HS07b]. **environment** [CDR09, DQA08]. **environmental** [RCB05]. **EPI** [Tok06b]. **Epitaxial** [CMK+01, RV00, BHL+04, CLS+06, CF06b, HLX06, RS06b, SSE03]. **Equation** [ACK02, AGH00, AGH02, AQ00, BC02a, BJM02, BD01, BdLL01,

BC02b, CL00a, DV02, DP00, Dys01, Eli02, FBFF00, FSB01, FP02, FSY00, GZ01, GFCK02, GF02, GR08, GC02b, Gua00, GSW00, HMS08b, IKS01, JPMC01, JP00, JM00, KK00b, Kul01, LL01a, LFK00, LW01, LAS01, MBP00, MCJ01, Mie00, OGV02, PB00, SFY01, SDD07, SKAS01, SWL00, Shy01, SKXK05, SR00b, Stu01, TRL01, Vay00, Vay01, WL02, YFS01, ZZ01, Zha02, AST07, AHPT07, AMR06, AC05, AK07, AB03, ABK09, AL08, Asl04a, Ata04, AMLC08, BAYZ08, Bal08, BJM03, BYS08, BC05, BFT07, BFT09, BFG07, BLM08, BIS07, BS03a, Boy03, Boy05a, BZ09, BL05, CHL06a, CL08a, CPG04, CR07, CLTA07, CHL06b, CCG$^+$06, CT08b, CS09, CLS09a, CJK$^+$03, CS04, COR08, CDL04, CDL05, CkM07, Cui09, Dar02]. **equation** [DBF08, DSJ03, Dem04, Den07, DWLM09, DNS08, DC08, Dur08, EB06, FL09, FT05, FR03, FK09b, FH07, FF03, FLZ09, GS06b, GPVB07, GKL03, GS09c, GD06b, HPS06a, HK06, HKM08, Had05, HMOG08, HZ08, HMS08a, pHL09, HHPW08, HMPR07, HKG08, HL07a, HW05, Hel09b, HHC08, HH07c, HL05, HWWL09, HLX06, IKS$^+$09, JLOT05b, JW06, JY08, JM05, JKL05, KMS03, KW06, KNH05, KMS04, KR09c, LT05, LH05a, LLY05, LP07a, LL03b, LL05, LTE07, LTZ03, LG03b, LG04, LG07, LGK06, LX07a, LT09b, LY06, LS09, LC03, Mac07, Mai03, MRC06, MCGV04, MKKY06, MST06, MP03, MGC06, ML06b, MK07, MG05b, NV09, Nas08, Nis07, NXS07, PC08, PHW08, PIN09, Pon05, PPB09, Pud06, QA09, RSSL09, RKE$^+$07, RBK09, SFDL07, SBCL06, SCT09, SCT06, SB09, SY09b, ST04]. **equation** [SS07c, zSW06, zS06, SB07, TMS06, TM07, Tau07, Ten03, TW05, Tok06a, TR07, Tuc03, UL06, VWW04, Wan04a, WT07b, WXG07, WZ09, WKG06, WKL07, XSG04, XSG08, YBZ06, YA05, ZXQX08, ZKL$^+$07, dSM05, dHRvdB07]. **equation-based** [Tuc03]. **Equation-free** [SKXK05]. **Equation-free/Galerkin-free** [SKXK05]. **Equations** [AGT02, ABGV02, Asl01, ACS00, BL09a, BC01, BCOS01, BT02, BBR01, BCVK02, BM01c, BZW01, BS00e, BCM01, Cal02, Car02, Che00a, Che00b, CL01c, CKL00, CL02, DMG00, DC01, DKK$^+$02, DDH01, DF00b, DK02b, Dur00, FF02, FMO00, FR02, GTD00, Gir00, GHW02, GBGM01, Han01, HH02a, HH01, HDC02, HH02b, HW02, HF01, Hu01, Hua01a, HK01, IFZ01, JMK01, KLN$^+$01, KR02, KM00, KB01, KT00a, KT00b, LBV00, LBV01, LTK$^+$02, Lay02, LLIK01a, LLIK01b, LOK01, LC01, LL01b, Li01, Lin01, LMS02, MPP01, MR02, Mai01, MCCT02, MC00a, MF01, MF00, MG02, MLS01, MOvL00, MPC01, MPC02, Myo01, NTYT01, NTYT02, Nys02, Pai01, Pet01, Rei00, RB02, SSD00, TWS02, VB00, VS02, WDM01, WPH00, WZ02, WK01b, WA02, WS01, XCZ02, XK01, Xu01c]. **Equations** [Xu01a, Xu02b, YP01, ZYC02, ZCMI01, ZS01, ZDNP00, AS03a, AvdB04, APR09, APT09, AKV06, AGT05, AB07, AMXL09, AEP04, And09, AI09, ACLS03, AG08, BQQ09, BR09a, BFB08, BTW04, BLW04, BY07, BGN07, BG07, BCDR06, BV05, BB07a, BACFT05, BES07, BFG08, BRC$^+$09, BTT08, Ber04, BK08, BF07, BYZ04, Boe05, BB07b, BT06, BRP05, BJ09, BT07a, BHvdV06, Bot06, BS06b, BGLN05, BEPT09, BL03, CD03, CHH06, CVB06, CP03a, CHL09, CQO04, COQ06, CS05, CCJ07, Cha07a, Cha07b, CWL08,

CC07, CTT08, CS07b, CS07a, CSL08, Chu09, CJ07, CS03, CLS04, CY05, CT07, CFP06, CFJ06, CZVS04, CFP08, DR06, DJM05, DDSV09, Del03a, Del03b, DGH08, DR09a, DD09, DH07, Doh09, DLP08, Dom08, DI09, DJTT05, DD03a, DD03b, DZ09b, DOW08, EHST03, EHS+08]. **equations** [EG08, ES06, EN06, ES03b, ELW04, FCJ08b, FYH+06, FL03, FOLD05, FD07, Fox09, FKLY07, FG06, FMR09, FH03, GPC07, GB08a, GS07, GK03, Gel06, Geo08, GSV06, GFR09, GF05a, GCNB07, GPF03, GW05, Gir06, GR08, GTMC08, GKE04, GR04, GBS06, Gri09, GE07, GLLN07, GD07b, GD05, GK05, HH07a, HLS06, HK04a, HR08, HMM08, HH08, HK08a, HC08, HO08a, HLO08, HJJ09, HLMM07, HL06b, HyLL07, HJL09, HLRZ06, HS08b, HS08c, Hu05, HLL08, HJM07, HMR08, HMM07, HC05, IX07, IM07, IHL03, IQ08, ILL09, JBF07, JR03, JR04, JHSZ07, JMC03, KE06, KOQ04, KOQ08, KSH+06, KDK+07, KP04, KG08, KJ09b, KAK03, KL04, KvdVvdV06a, KvdVvdV06b, KvRvdVvdV07, KL06, KS09, KT03, KT05, KG03, KLM05, KN04, KQW03a, KQW03b, KLSW09, LY07a, Lar07, LHD05, LGHD08, LS03]. **equations** [LMN+09, LM08a, Lee05, Lee09, LFS07, LQ09, LSY04, LP04a, LSZZ08, LLOT06, LDPL08, LYC09, LMS04, LSSV07, LSV09, LRZ04, LW07, LP07b, LX07b, LW09, LCS09, Liu09b, Liv07, LGM08, LZC04, LMNK07, LB04, LBL06b, LCdCN+03, MZ09, MJ09a, Mai04, MVD04, MP07a, MCG08, MR05, MY09, MSS08, Maz06, MHB08, Mea04, MK08b, MSO04, MOG09, MT04, MG06, MD06, MPFC08, Moo03, Moo07, MAN+06, MT07b, MSB07b, Mou04, MDR07, NW07, NZ05, NOG08a, NFGK07, Ngu07, Ngu08, NPC09a, NPC09b, Ni09, NI03, Nik06, NMS07, NGvdWS09, OS04, OK06a, OSK09, OX04, ORM06, Ols09, OK06c, ON08, PAD07, PSD09, PNMK09, PvdV08, PCS+09, PR03, PR04b, Pop03, PR06, PGN08, QS05, RC09a, Rah04, RCT07, RBH03, Rem06, RS06a, RBvdV08, RAD07, RRW05, RSO04, RM08, SSN09, Sac07, SS03a]. **equations** [SFDL07, SZB+07, SDM04, SM06a, Ser09, SS08, SRNV07, SFE07, SMB09, SWZ03, SP04, SL07b, STZ07, SHTB09, SP05b, Soc03, SKW05, SG03b, ST03a, SCN07, SN08, STR07b, TTZ03, TL06, THL06, TBT+09, Thö04, TXCD07, TKH09, TOY09, TdAAP08, TE04, TG08, TS08, Tsy04, TFDK04, VPMC04, VVM05, VW02, VSW04, VSW06, VTT08, VSG05, VK05b, WK07, WK05, WRu03, WM07, WGS+08, WM09, Wel07, WKB07, WZ03, XXS07, XS05a, XS09, XS05b, XHW07, XD07, You06, YZW05, YS07c, YS08, YLA08, YE05, Yus06, ZYL+06, ZW04, Zhe06, Zhe07, Zho07, ZZFW06, ZT07b, dDEK09]. **Equidistribution** [BMRS01, Hua01b, DCF+08]. **equilateral** [MR03]. **Equilibria** [BBG+02, SHWW00]. **Equilibrium** [BKR+01, Cle00, DSS00, AZ05, BP03, BSW05, CGP05, CP07, CK08, DL04, GT09a, GT05, GWF+07, GLN06, JSCZ08, JG09, MKR00, MK03, ORM06, SSB07, WSYS09, XHC08]. **equivalent** [LM08a, RE07]. **Erratum** [ABRR09b, CL08b, DKX01, DD03a, HMS08b, HT00b, HY11, HLWW06, JJGL07, Lau06, Mil07, NTYT02, PW01, Tol02a, WZL09b]. **Error** [Bar02a, CHR01, FWK08, GKD09, KLN+01, LMK09, OV00, OP02, SDS07,

ST03b, VD00, Yam01, CLMRP08, CC07, CY05, DL03b, Dur08, Dwi08, HGBH03, HNGB04, HS03b, KK09, KKO04, Lap04, MGS07, MK04b, Ngu07, PG04, RS09b, SVH$^+$06, TWM07, WK06, OV00]. **error-assessment** [MGS07]. **Errors** [FLG01, BBB08, CP06a, CM03, DL03b, GD06a, KLM07, PYC04, PM07, Vil08, VK09]. **Essential** [APQ03]. **Essentially** [Abg06, BS00a, WC01, WH02, BCCD08, CL06a, HAP05, TWM07, ZSWW03, ZWS06]. **estimate** [WK06]. **Estimates** [MP01b, OV00, HS03b, PG04]. **Estimating** [KS02a, KFIG06, RS09b]. **Estimation** [BCEG07, OV00, OP02, RMV03, VD00, BS03b, CFS09, DLD$^+$06, Dwi08, HMA05, IKL$^+$08, KK09, LJSM08, Ler06, MDJS07, Ngu07, PM08, Sti05, TPVG06, Zad08, vdDA06]. **Estimator** [TS01, LZ07]. **estimators** [SVH$^+$06]. **ethylene** [GIA$^+$07, GIA$^+$08]. **Eu** [Myo01]. **Euler** [TR07, AEP04, AI09, Asl04b, AG08, BZW01, Car02, CS07a, CR09, CDV07, DDK06, DMG00, DDSV09, Del03a, DOW08, GB08a, GR04, Han01, HH02a, Hu01, Hu05, HLL08, HK01, IX07, IR09, JR07, JK00, KL04, KQW03a, KQW03b, Lee05, LFS07, LW07, LCS09, LBL06b, MC00a, MOG09, MG02, MSB07b, Nat06, NOG08a, PvdV08, Pop03, PGN08, RC09a, Rah04, RBH03, RS06a, SFDL07, ST03a, TL06, TW05, VSW06, WM07, WM09, WKB07, WZ03, ZYC02]. **Eulerian** [AEP04, ALGM01, AV02, AHMS03, BALW06, BS00c, BR09b, CW03, DVHM05, Fed02, FLM08, FKK08, GT09b, GXW07, Her05, HG03, HPZ01, HH06, JX07, KMSH08, KMS02, LMV04, LL03b, LQ09, LHZW05, LY04, LS05b, MC01, MC02, MCN03, OF02, OCK$^+$02, QL04, RB05, RWWS07, SM09a, SCW$^+$09, SFW00, UTBV03, YA05, YFBH07]. **Eulerian-Grid-Based** [AV02]. **Eulerian/Lagrangian** [GXW07]. **Evaluating** [GHG01, RS09b]. **Evaluation** [GST02, Hau08a, Hau08b, KMJ01, LWEM00, MT04, PC02, RMG$^+$09, Saf02, ABZ$^+$08, BHS09, BO04, CRAG07, DMBS05, FT06, HO08b, KR09c, Lau04, Mar06, MG07a, PC08, VOD08, VB08, VS07, WG08]. **Evanescent** [BV00, BPO07]. **evaporating** [AJ09, SW08a]. **Evaporation** [HW08, LMS05, SS06b]. **even** [CTS07, RVM07]. **Event** [DGA08, ML04, OK06b, NZ07, Pau07, PA07a, ZZ09, VS09]. **Event-Driven** [DGA08, ML04, OK06b, ZZ09, VS09]. **Event-Driven/Time-Driven** [VS09]. **events** [MS08b]. **Evidence** [SS05c, BBCT09]. **Evolution** [ATV01, AGH00, DC01, JWSC00, JW02, LLN00, LMSW02, Nie01, Set01, SR00b, AKLMP09, AINR03, BGN07, Bey09, COQ06, CS08b, CP04b, CP05, DDD05, EN06, FM06, GFG09, JW03, KT05, KLM05, KN04, LZ09a, LMNK07, Ols09, RRV06, RSS09, SR09b, VWW04, Wan04a, ZZ09]. **evolutionary** [DGRS08]. **Evolving** [CBL01, ML05, BGN08, EE08]. **EVP** [Hun01]. **Ewald** [CWJ07, OJW06]. **Exact** [BDRT09, BTT08, CGP02, EZ08b, Fou06, LBD02, NN04, Ten03, UH01, VS02, Zhe06, BCZ04, BDCG03, DP07, Lau06, RS09b, Wag05, Wal03, XS05a, vZS07]. **Exactly** [NTYT01, NTYT02, FS09]. **Example** [PL01]. **examples** [Ram06]. **exceeding** [KWD07]. **exceptional** [LC06b]. **Exchange** [RH01b]. **exchanges** [PFSL07]. **excitation** [FK09b]. **excitation-adaptive** [FK09b].

Excited [FV01, BCL06, CGL06, Fra04]. **excluded** [LGP09]. **execution** [BDS07]. **exercise** [Kou07]. **ExGA** [MLSD07]. **expanding** [HDBW05, PK07]. **Expansion** [ADK02, Goe00, SSD00, VP00, AV03, BO05, GMH06, KYLB07, NCS03, PW07, Tak06, TPV07]. **expansion-** [NCS03]. **Expansions** [CL02, BRB03, FT05, GG09a, HLRZ06, LKNG04, SH07b, Tyg08, VS07, ZL04]. **experience** [BPS03]. **experiment** [OB06]. **experimental** [DGF09, NDG05, ZGSD06]. **experiments** [FHJK09, SSW+07, XSG08]. **Explicit** [DZ09a, GSD01, HK06, HJL09, KM06, KM07b, Kuz09, MLSD07, PH09, QM03, RB02, VG01, VCTS02, XCZ02, YP01, AHNS09, BBMB07, BB04b, BB07b, CSL08, DR06, FDD09a, FG07, GL09b, HR08, Jia07, JL04b, KCGH07, Lar07, Löh04, LGM08, MGS09, OK07a, PH06, PH08, Sha05, zS06, TDGP06, WG08, XJ07, ZSP08]. **Explicit-Implicit** [RB02, DR06, HR08]. **explicit/implicit** [TDGP06]. **Exploring** [Lou00]. **explosion** [WK04]. **explosions** [KS08a]. **Exponential** [CM02, BIS07, Kry04, Liv07, Sti05, TWYC06, TD07, Tok06b]. **expressed** [NG06a]. **expression** [Sha05]. **expressions** [OLA08]. **Extended** [BMS00, Vay01, FHLK05, GR07, HSZ04, KFH+04, KFIG06, KLK08, Nas08, WLKW07, ZGT06]. **Extending** [CDJ07, DC07, WS04]. **Extension** [Boy02a, FM08, LVW06b, NBLQ09, Pop00, SBGK00, SWL06, WL06, CB03, MBS03, WZL04, WL02]. **extensional** [AH08]. **Extensions** [HMOG08, HR07]. **Exterior** [MM01, ABK09, Bor07, MG07a]. **External** [FGOV00, HAS05, HHC08]. **Extracting** [WC08]. **extraction** [Hum05]. **Extrapolation** [TK00, Asl04a, CHL09, GS03a, RB06, WZ09]. **extrema** [CS08c, RGK07]. **extrema-preserving** [RGK07]. **extremal** [GB08b, Ham07]. **Extreme** [VSMW01, CS05, FGS09, MS08b, SK08a]. **extremely** [TAL09]. **Extrinsic** [KYLB07].

F [LM03a]. **Faber** [BS06a]. **Face** [Jia07, SS09b]. **facing** [RFVP09]. **factor** [Kro05, NWZL08]. **Factored** [Boy02b, FLZ09]. **factors** [RMV03]. **Failure** [TWS02, EV03, PW07]. **falling** [GMD03]. **Families** [Tol08, Nic09]. **family** [BB04b, Boy03, CGSR08, EZ08a, FDD09b, MLSD07, RC09a, SK06, ZYHS07]. **Far** [BBW06, Fre00, HSK00, MP01b, HKS09, SCN07]. **Far-Field** [Fre00, HSK00, MP01b, BBW06, HKS09, SCN07]. **fashion** [kM07a]. **Fast** [AS05a, BKM09, BD01, BO04, BK01, CY00, CdHST08, Dar00b, DFT01, EN06, FLZ09, GD06b, GD08, HAAO00, HHCL01, HKG08, Hoh06, KKD08, LDN04, LJSM08, LG07, LBS+04, LQX06, LWEM00, LCCG05, MTV08, Mac01, Mar06, MS01, NL08, PRT00, SHWW00, SDM04, Set01, SSC00, Str00, Str01a, TB09, Tyg08, VS07, WJV07, WA02, YC06a, ZS01, AL06, AB05a, Bar04, Bia03, BYZ04, BPO07, BOK+06, CDJ07, COQ06, CR05, CHL06b, CCG+06, CJK+03, CWD08, CFR08, Dar02, DH04, DC07, EHD08, FD09a, GvH06, GG09a, GKD09, GV06, GH02, HSC09, HB05b, KOQ08, KP04, KP05, LT05, LGKP07, LSZZ08, LC03, LCM07, MR05, MR07a, MR06b, NI03, OLLL03, PSH+08, RVVL09, SS09a, SWG08, ST06, SH07b, SP05a, SMP09,

SK04b, Tau07, Thö04, TC09b, TG08, VOD08, VBJ08a, VBJ08b]. **fast** [VB08, WK06, YBS06, YBZ04, Yin06, ZT07a, ZKL+07]. **Faster** [Hel09a, BPO07]. **faulting** [BIW04]. **FCT** [BHS09, Kuz09, LOK05]. **FD** [SL07a, Yu05b]. **FDFD** [CBB01]. **FDTD** [Bet08, CFJ06, DS05b, FK09b, POS00, Rem06, RK07, Vay01, Wel07, WC07, XCZ02, ZSW07, ZW04, ZT07b]. **FDTD-compatible** [RK07]. **FDTD-methods** [ZSW07]. **FE** [AT09, BFG08, MK04b]. **FE-simulation** [MK04b]. **features** [TZ06, TMD+08]. **Fekete** [BCEG07, BCE+09]. **Feller** [LLTA07]. **FEM** [BB07a, DHOT09, GQ00, KT04, Kuz09, LNXNTX09, MMS04, MR04, NZ05, YM07]. **FEM-multigrid** [DHOT09]. **FEM-simulation** [MR04]. **FENE** [LC03]. **Fermion** [BTFY01]. **fermions** [Bor03]. **ferromagnetic** [GCW07]. **FETD** [CL07b]. **FETI** [LJ09a]. **Few** [GHV00, HKS09]. **Few-Cycle** [GHV00]. **Fewer** [TRL01]. **Fey** [Noe00]. **Feynman** [BLL03, HvHHS05, PWW00, SS01b]. **FFT** [CXB08, DBF08, LG05, PKvdB00, YAvdB+08]. **FFT-based** [CXB08]. **FHNC** [Hof04]. **fiber** [TG06]. **Fibers** [BV00, TS04]. **Fictitious** [BCM09, GPH+01, WT07a, BG05a, DGMN03, RAB07, SPT05, VMN07, YSW06, YS07b, ZW06, PP09]. **fictitious-domain** [ZW06]. **fidelity** [NT07]. **Field** [BISS01, Fre00, FGOV00, FV01, GW02, GKL00, HSK00, MR02, MP01b, OMG02, ST01, SSW01, AINR03, BCB03, Bae03, BCDW06, BBW06, BEA09, BJP04, CFM09, Cha09, CW08, CEL06, DDSV09, DLW04, FYH+06, GFG09, HW08, HvHHS05, HKS09, HF08a, HX05, HWWL09, JOS06, KKS07, LCG07, LCB09, LW07, LJ07, LH05b, MZ07, MSP+06, NDG05, NLLE06, OK07b, PH09, RJM07, SY09a, Shi07, SG03a, SB07, SS04, SCN07, TLK07, TBT+09, XMT06, YFLS06, YHCD05, YZF+06, YZF07, ZDD09, ZSTC06, dWKL07]. **field-space-based** [LW07]. **Fields** [DPCV02, GG00, GC02a, KMHR00, LWEM00, MN02, POS00, AV03, Bal09, DGF09, DC07, DS05b, FCJ08a, GFG09, KB04, OLLL03, SR09a, ST06, TET09, TXCD07, VOD08, VS07, XDC09, ZSW03, ZW05]. **Fierz** [MBM01]. **fifth** [GR04, HAP06, SM04, Tol07]. **fifth-order** [GR04, SM04]. **Figures** [DSS00]. **Filament** [ZP02]. **filamentary** [PSCB08]. **Filamentation** [DGH02]. **filaments** [HSS07]. **filling** [GS03b, Vol04a]. **Film** [CMK+01, DK02a, ZP02, GMD03, HKM08, MO06, NTB07, SA06, SRX07]. **films** [AIR03, ES03a, RRV06]. **Filter** [CKGL02, PX02, PR01b, TR02a, HO03, IKL+08, KFH+04, KFIG06, KSJ03, KDC05, LX09, RMSB09, WC08, YS07a]. **Filter-Based** [PX02]. **Filter-Diagonalization** [TR02a, WC08]. **filtered** [MP07b, ZSTC06]. **Filtering** [FBFF00, VCT07, BS03b, BB07b, BdCB09, CHM08, CKG04, ES03b, HM08, HV03, KCH06, Wea09]. **Filters** [AA02, GSD01, MVM02, ZW03]. **FIND** [LAKD08]. **Finding** [FGOV00, FV01, LY07b]. **Fine** [KM02]. **FINESSE** [BBG+02]. **fingering** [LLL07]. **Finite** [AC00, ACY00, AE03, AKLMP09, BR09a, BC02a, BHL+04, BS00b, BMR01, BM01b, BT02, BW01, BS00d, Bla00, BP03, CL00a, CS01a, CP00, CHR01, CBB01, CGSS00, Cod01, DPCV02, DBB06, DF00b, DET08,

Dur00, FVOMY00, FHW07, FK06, FK07b, FK02, GHV00, GW01, Gro06, Gro07, GH08b, GV07, GLT07, HLS02b, Han00, HH02a, Her00, IK07, JL02, JM00, KC00, KKC01, KT02, KMJ01, LLH02, LW06, LM01, LTZ02, LM03a, LX07a, LMSW02, MPP01, MP01a, MP02, MF01, ML01a, MST06, Nic00, Nik06, NC01, OGV02, OMK09, PR01a, PL09b, PKP01, PS04, PK00, PSG05, POS00, PL07, QP03, Rem00, SBGK00, ST01, SC09a, Sou09, Stu01, TK00, TJ09, TT04, Tol02a, Tol02b, Tow09b, VCP00, Vas00, VCTS02, VG02, WPW02, Wan02, WL02, Whi00, WA02]. **Finite** [WB09b, YP01, ZZ01, ZH01, ZRR00, vdVvdV02, APTJ+04, APP+07, AH08, Ain04, AMR06, AK07, AG09, AT05a, AT08, AKO09, BAYZ08, BS04a, BMN05, BGN07, BGN08, BG07, BGM08, BAFL09, BES07, BBvdV06, Boe05, BT06, BT07a, BT07b, BHvdV06, BKLL04, Boy06, BLM04, BEG03, BJP04, CT09, CHH06, CCG08, CLG07, CHL09, CdHST08, CL03a, CN05, CX08, CXZ09, CS07b, CS08b, CEH09, CYS06, CJ04, CS06, CS07d, CSKD05, CR09, CQRW05, CSML06, CGC+09, CHPR09, CZVS04, CFP08, Cui09, CH08, DSM09a, DSM09b, De 04, DR06, DBBP08, DW09, DGMN03, DS06a, DF04, DK07, DKTT07, DBTM08, Dur08, Dwi08, Edw06, EZ08a, EGHE06, EE08, ÉGP09, FP08a, FDD09a, FDD09b, FWR07, FMR09, GPC07, GLM07, GR07, GLLN09, GL09b, GL08, HPS06a, HBHJ08, HJ09, HZGB04]. **finite** [HZGB05, HPD09, HLO08, Her09, Hew03, HMMO05, HY09, HY11, HWWL09, IX07, IX09, IM05, IDD04, IQ08, JD09, Jar04, JBF07, JLT03, JLT06, JL09, JZ08, JLL+06, JAK05, JM05, Jon05, Jor07, KW06, KTD03, Kim07, KPB08, KLK08, Kok09, KR09b, KPP07, KPP09, Kum04a, Kuz06, KSS09, LSB04, LFSS07, LZ07, LVL05, LJSM08, LZT09, LCW04, LL06a, LLZ07, LYC09, LSS+09, LMS04, LSS06, LSSV07, LSV09, LVW06b, LLTA07, LM08c, LNXNTX09, LS09, Liu09c, LY04, LJ07, LMNK07, LJ06, LZH+07, MY06a, MZ08, MK08a, Mac07, Mad05, MWM03, Mad06, Mai04, MLSD07, MP07a, MR06a, MGCR07, MB04, MN04, MN06, MN17, MSJ07, MZ07, MGS07, MSP+06, MGC06, MCN03, MCP03, MR07c, MDM03, MVO04, MT07b, MK07, NV09, NOG08b, NBLQ09, NLLE06, NPPN06, NXS07, OK06a, OSK09, OVG07, PAD07]. **finite** [PP09, PH06, PH08, PvdV08, PS08, Pir07, PR03, PR04b, Pon06, PR06, RB06, RJ06, RBvdV08, RRW05, Rom07, Ros09, RJ04, SROCdPFF05, SKS08, SJD05, SHA08, SHWC07, STD+05, SMS04, SYG06, SS06a, SS05a, SL07b, SZ05, STZ07, SMAj08, SS03b, SS05c, SGG+04, SB03, SC09b, SWL06, SR09b, SCN07, SN08, TVMR03, Tan08, TMND07, TD07, TdAAP08, Tor03, TA06, Tow08, Tow09a, TAL09, VPMC04, VW02, VSW04, VSW06, VZSL07, WZL04, WTL08, WLT08, WZL09a, WZL09b, WZ07, WA08, WHS08, WF06, XS05a, XS06, XCRX08, XS05c, XLP05, YMWM06, YS07c, YS08, YZF+06, Yus06, YH07b, ZGT06, ZZ07, ZFM08, ZH09, ZHSS09, dSHHM05, dVGLM09, dFJS09, vDZ06, vdBG09, Lab09]. **finite-band** [Dur08]. **Finite-Difference** [AC00, ACY00, CBB01, FVOMY00, GHV00, MF01, Nic00, Rem00, VCP00, VCTS02, VG02, WA02, GH08b, IK07, Nik06, BG07, CdHST08, CYS06, HWWL09, JAK05, KPP07, KPP09, LS09, MSP+06, PAD07, PH06, Pir07,

RB06, SROCdPFF05, SHWC07, SS05a, VPMC04, YMWM06, ZH09, dSHHM05]. **Finite-Difference-Diffusion-Monte-Carlo** [PK00]. **finite-differences** [Kum04a]. **Finite-Element** [BW01, CHR01, MPP01, LW06, CQRW05, DR06, HPS06a, HPD09, LJ07, SS06a]. **finite-element/finite-volume** [SS06a]. **finite-energy** [Mai04]. **finite-frequency** [TMND07]. **Finite-Volume** [BM01b, CL00a, DPCV02, KKC01, ML01a, OGV02, PS04, PL07, TT04, Edw06, EZ08a, HBHJ08, HJ09, JLT03, JLT06, JL09, Kok09, LZT09, LJ06, MSJ07, MGS07, RJ06, Ros09, SS06a, SL07b, SC09b, XCRX08, ZH04]. **FINT** [LJSM08]. **First** [Ano05s, Boy02a, CR09, FV01, HH07b, HMMR04, BEE06, BCL06, CkM07, Gro06, Gro07, Gui03, IM07, Jar04, NPH09, Nis07, YZW05]. **First-** [CR09, YZW05]. **first-derivative** [Jar04]. **First-order** [HH07b, HMMR04, IM07, NPH09, Nis07]. **fit** [AMSZ07, Mil05, Mil06, Mil07]. **fitted** [PS08, SS03a, YP06, ZKDT07]. **Fitting** [CVE06, Che04, Sur05, TWYC06]. **Five** [ACK02, MG05b, QA09]. **Five-Equation** [ACK02, QA09]. **fix** [Asl04b, HK04c, Ser09]. **Fixed** [RMO00, YSC01, AFGM07, BL09a, BBHM09, CHCOB09, DMHP07, Mad06, MS08a, MLS$^+$05, TZ06, TLK09, ZFM08, dFJS09]. **fixed-domain** [TZ06]. **Fixed-Grid** [YSC01]. **fixed-mesh** [CHCOB09, ZFM08]. **fixed/moving** [TLK09]. **Flame** [CAL00, NFK01, BDR$^+$04, BDGL05, LLC06, MR04]. **flames** [MR04]. **Flapping** [ZP02]. **FLAPW** [YMF01]. **Flexible** [ZP02, Alb09, EKBL09, HSS07, Hum05, LKP06, Mad05, TS04, Tsu06, XYK05]. **flexible-body** [Yu05b]. **flexible-cycle** [XYK05]. **flexible-order** [EKBL09]. **flight** [Liu09a]. **flights** [Pav07]. **flip** [ABRR09a, ABRR09b]. **floating** [YM07]. **Floquet** [DK06, TB00a]. **Flow** [APQ02, BBG$^+$02, BW01, BCVK02, CFA01, CS00, ČPT01, CGSS00, CR02, CL02, DIV00, EF02, FVOMY00, FGG01, GPH$^+$01, Goe00, HLS02b, Han01, HGM$^+$00, JML$^+$01, JL02, KC00, KKC01, KLvBvL02, LLH02, LS02b, LKNG01, LRN$^+$02, LK01, Mac01, MN02, MK02b, MC01, MD01, Pai01, PR00, PG02a, PS01, PW00b, PW01, Poz01a, PO01, SBGK00, SS02, SJ02, Shy01, Sie00, Sum00, TC01b, TBE$^+$01, VD00, Xu01a, Xu02a, ZTZ02, dSAK00, vBRK01, AM03, APTJ$^+$04, AH08, AK06a, ART04, Alb08, AK05, AW04, AMP09, AT05b, BSKH07, BKST09, BS08b, BF08, Bil05, BF07, BB04b, BSLN09, BLM03, BLM04, BTW03, BP08, BP04a, BIVC07, BGN03, BK07, BB09c, CLB08, CFF07, CRAG07, CR05, CFM09, CS05, CL07a, CL08b, CT08b, CMP07, CHBS04, CHPR09, CBS05, CZVS04]. **flow** [CGM07, DMHP07, DS05a, DHOT09, DM03, DDK06, DT04, DVHM05, DP07, DP08, DKS$^+$03, Dim07, DS06b, DF04, DND06, DCK08, EGHE06, ECL02, ELD08b, ÉGP09, ES03b, FRS08, FS04, FK09a, FT06, FK07a, FL06, FCT07, GZ09, GMD03, GH09, GGF03, GS03b, GGP06, GC06, GGCC09, GD07a, HJ09, HL04, HP04a, HS03a, HS06, Her08, HN03, HY09, HY11, Hu05, HAI09, HT03, HLX06, Hua07, HSS07, HLY09, HH06, ID04, IK07, JLT03, JD04, JLT06, JOS06, JX07, JC06b, JP03, JS05, Kel05, KC06, KDF07, KAS06, Kok09, KSGF09, KT07, LTZ03, LFX05, LK09, LJW09, LKX04, LX07b, LY04, LR03, Löh04, LM03b, LSW06, LJ06, LMZ$^+$08, MC04, MTV08,

MPD03, Mac03, MT07a, MJT06, MSJ07, MP05, ME09, MT03, MCN03, MSB07a, MVO04, MDS03, Mou04, MDR07]. **flow** [MGNB09, MG05b, NL08, NBLQ09, NJX08b, NJX09, OK05, OKZ07, PPDM08, PP09, PS05, PWM06, PA07b, QLK07, QLS09, RC06, RFVP09, RM07, RW03, SM09a, SWG08, SGFL09, SWK06, SMS08, SLF08, SE04, SZS03, Shi07, SLC07, Shy04, Shy06, SS05c, SCRL08, SWL06, SRX07, TZ03, TOZP03, TM05, TBJ+09, TT06c, TCM05, TDV06, TF03, TJLT08, VC03, VLB09, VV03, VQLZ04, WSYS09, WFC09, WGNT06, Xia04, XK03, XH03, XMT05, Xu08, XHC08, YP06, YYT05, YC06a, YC06b, YXLF05, YKK08, YF09, YE05, Zad08, ZSWW03, ZL04, ZKY05, ZWS06, ZVQ07, ZJ09, ZKS+09, ZFM08, ZLAC05, ZL08b, ZD08, vOP04, vdV08]. **flow-body** [Alb08]. **flow-induced** [SCRL08]. **flow-polymer** [CFM09]. **flow-structure** [LMZ+08, ZFM08]. **flow/structure** [AK06a]. **flowfield** [KK05b]. **Flowing** [ZP02, CGL08]. **Flows** [BSJ01, BM01b, BMQS02, BL01, Bon00, CKR00, CKR01, CPK02, Cle00, Cod01, Cor00, CMOV02, DCV+01, DK02a, DF00a, DLS+00, EAY01, FS01, FG02, GSD01, GS02, GHG01, GW01, GM01b, GQ00, Hor02, JLCD01, JPMC01, KKR01a, KKR01b, LX00, LS00, MSYL00, MPC01, MPC02, Nic00, Nie01, PWS+02, PSN00, QV01, RH01b, Ros00, Sai02, SML02, SBGK00, SSD00, Sni01, Sun00, SB02, SP00, TSB01, TCM+00, UMRK01, VD02, VLKM02, VC00, WPM02a, WK01a, WPW02, WLE+00, WW00, WZ00, Xu01b, Yua02, vdVvdV02, APP+07, AK09, Ano04z, AMP09, AB05b, AMS03, BFB08, BHS09, BM06, BDHN09, BGM08, BALW06, BH09, BS04c, BCM09, BPL06, BKLL04, BN09, BCI+08, BHSV07, BB08b, CPR05, CCG08, CGL08, CET09, CGRGV+04, CFL+03, CHB09, Che03, CGH05, CJ09, CYS06, CZ09, COER07, CDE06]. **flows** [CJR04, CHCOB09, CL03b, CMR08, CP04c, DSM09a, DBBP08, DFV08, DP09, DGMN03, DS06a, DSS07, DS09a, DDS09, DGJ03, DHM07, DBS06, FP08a, FPK08, FM05, FD03, FPT05, FL07, FD09b, FGP08, Fox08, GV08, GT09b, GXW07, GBC06, GLL03, GMD07, GSB03, GS05c, GMAj09, GS03c, Gra06a, Gra06b, Gre04, GMO04, GMS06, GAC+09, GKV09, GR07, GS03d, GS09c, GLLX08, HW08, HSQ03, HAS05, HPD09, Hel05, HS08a, Her08, HM05, HVAC09, HK04c, HKAH06, HA06, HT03, HO03, IOTK04, JD09, JL04a, Jao07, JX06, JLL+06, KSO+05, KR09a, KHdT+08, KIH09, KIHM09, KM06, KM07b, KK05c, KK05d, KPB08, KAA+07, Kro01, Kro02, LTH08, LL09, LG09, LSL08, LKP06, LK07, LL05, LP06a, LZ04, LS07, Li08a, LZ09c, LLS09, LL06a, LF05, LMS08, LW04, LKO05, LV07, LCNR07, LTC07]. **flows** [LM08c, LKMK09, LDV08, LD09b, LHGF05, LF04, LC03, LB03b, LBL04, LBL06a, LBL08, LMK09, LZH+06, MM09, Mai09b, Mai09a, MLM09, MEKS03, MKOW04, MR06a, MM03, Mar09, MB04, MY07, MJ09b, MDB+08, MLS+05, MK06, MT08, MAL09, Myo04, NSC09, NOG08b, Neo07, NMG09, NMM+07, NMH+07, NJX08a, NCS03, NPPN06, NS05, NT07, Nov04, OF06, OTCM08, OVG07, OCFF08, PKD07, PDHP07, PPDM08, PSCQ03, PSC+06, PN03, PH08, PFSL07, PK07, Pon09, Pon06, Pon07a, Pon07b, Pop09, Pro05, Pro07, PS03b, PS07d, QA09, QS07, QP03, QM03, RB05, RMB07, RVM07, RVDM09,

RWMK03, RJ06, RBS06, RMG+09, RF06, RMF08, Ros03, Ros07, RFVP09, SDGX07, SNGAS04, SROCFF03, SROCdPFF05, SC08a, SFDL07, SPB09, SAK05, SSB07, SE09, SS07a, SD05a, SD05b, SP05a, SFX03, SMS04, SY09a].
flows [SZC09, SS06a, SYC09, SSND03, SKXK05, SY03, Spe05, SK07a, SP06a, SZH07, SC09b, SFMP06, SBC04, SSH+07, SK03, TZL05, TLK07, TLL+08, TLK09, TJS03, TB06, TMB07, TSG+06, TT09, TMD+08, TC09a, TdAAP08, TW07, TS04, TS08, Uhl05, Utn08, VCT07, VCT09, VVS08, VMN07, VGBZ09, VD03, Vik03, VBL03, Vol04b, WT07a, WAO+04, WWC07, WB09a, WSI08, WWK05, Xia04, XAI06, XMP07, XP04b, XLP05, XLLZ06, YZ07, YB06, YXLF05, YSW06, YS07b, ZGG03, ZR08, ZXQX08, ZZVM08, ZL09, ZSC06, ZSC08, ZHSS09, ZW03, dSMN+04, dTDI+07, vBK03].
fluctuating [SP04]. **fluctuation**
[Asl04b, DPRN05, Ham07, Hub07, Hub08, KIHM09, RDPN07].
Fluctuations [DDG02, LS02a]. **Fluid**
[AMSZ03, BNV08, Bar02b, BW01, ČPT01, CYKC01, ELW01, Fed02, Goe00, HK00, HLS06, Har04, HF00, HPZ01, IYI+02, KFV+05, KLvBvL02, LKNG01, LRN+02, Man02, MC02, MD01, RRL01, RR02, Shy01, Str01b, SP00, TC02, WLE+00, WW00, ZSP02, AS09, APT09, ADR08, AKP07, AMS03, BQQ09, BALW06, BL08, Bod06, BGS08, BG05b, CGL08, CR05, CCV03, CN05, CZ09, CC08b, CHPR09, CBS05, CDV05, CDV07, CDL04, CDL05, DMR09, DDM07, DMP08, DFV08, Eld07, Eld08a, EF03, FRS08, FDD07, FGS09, FM04, FJ09, FLM08, FKK08, Gla05, GA09, GCCD07, Gre04, GAC+09, GH08b, GGCC09, Hel05, HC09, HMMR04, HLRZ06, HG03, HAI09, IAT08, JJGL06, JJGL07, JL04a, JBF07, KG09, KSHS08, KG08, KJ09b, KDF07, KYK07, Lap03, LMV04, LWP+09, LS07, LLS09, LKY03]. **fluid**
[LKX04, LKW05, LMH07, LHGF04, LHGF05, LH08a, LZH+07, MC04, Mai09b, Mai09a, MMS04, MPD08, MY03, MMPB07, NMG09, Pap08, PP09, PSC+06, PP04, PK07, QA09, RSW06, RFFP06, RM07, SJ04, SPT05, SL07a, SL03, Shy04, SM06b, SG03a, Sus03, TT09, TPV07, TGB+07, TDV06, TG04, VGZB09, Vik03, WTL08, WWK05, XW06, Yam05, YJL+06, Yu05b, YZL+06, ZKS+09, ZSC08, ZTPM05, dSMN+04, vBK03, vLAvdV06, vZdBB07].
fluid-body [Eld08a]. **fluid-dynamic** [Lap03]. **fluid-dynamics** [MPD08].
fluid-elastic [HMMR04]. **fluid-land** [KJ09b]. **fluid-membrane** [LWP+09].
Fluid-Mixture [Shy01, Shy04]. **fluid-particle** [DFV08]. **fluid-particles** [FM04]. **fluid-poroelastic** [BQQ09]. **fluid-saturated** [GH08b].
fluid-soil-structure [SM06b]. **Fluid-Solid**
[HPZ01, Man02, CCV03, JJGL06, JJGL07, MMS04, NMG09, Vik03].
Fluid-structure [BNV08, AKP07, GA09, GGCC09, HC09, KYK07, LZH+07, Pap08, SPT05, SL07a, vLAvdV06, vZdBB07]. **fluid/flexible** [Yu05b].
fluid/flexible-body [Yu05b]. **fluidics** [RE05]. **fluidized** [Sar03]. **Fluids** [ACK02, CL01a, FS00a, FS00b, HLS01, PR00, BL09b, BL08, FCT07, HHC08, ICO04, KM08b, KKL04, PvdV08, RE05, Ren07, SPB09, SF03, SCW+09, VBL03, VBL04, XLM07, YZF+06]. **Fluorescence** [FEL+05, FLE03]. **Flux** [Bet08, Edw00, EF02, HGN00, KP00, KT02, Lio00, Ros00, Sti02, AKLMP09,

BCDR06, CWYM08, CJ09, DQ04, Edw06, EZ08a, EF03, HS09a, IR09, JTL09, KK05b, KLLJ09, KT04, Kuz06, Kuz09, LSD07, MEKS03, MM03, MY07, Ols07, OK06c, QW05, QA09, RC09a, RBT03, SJD05, SMAj08, Sof09, ST03a, Tok06a, TAL09, VCZS04, XS05c, YHSX07]. **flux-conservative** [OK06c]. **flux-limited** [Ols07]. **flux-split** [MM03]. **Flux-Splitting** [EF02, Ros00, EF03, MEKS03, QW05]. **Flux-Tube** [KP00]. **flux-vector** [DQ04, QA09, SJD05]. **Fluxes** [DLS+00, Bil05, BB07b, GLM07, QKS06, TT06b]. **FMM** [ON08]. **foam** [VCG03]. **foaming** [YFBH07]. **Fock** [FHLK05]. **Fokker** [DDFT09, KB04, WO05, WO09, BC02b, CBKM00a, CBKM00b, Den07, DWLM09, FP02, Lem00, LC03, PRT00, UL06, XCRX08]. **Following** [Abg01, Ano08-50, SM09b, WS04]. **Force** [Deh02, LKMK09, LM03b, Tót02, AKO09, BBF+08, Car09, CB07, DM03, FCD+06, Her08, HS08c, KKD08, Kim05, LC06b, LH05b, MZ07, SHP07, TLAD04, VQLZ04, ZVQ07, THD09]. **Force-coupling** [LKMK09, LM03b, DM03]. **force-displacement** [VQLZ04, ZVQ07]. **force-driven** [VQLZ04]. **force/work** [LC06b]. **forced** [HLRZ06]. **Forces** [BCE+09, FPC+00, LL01b, PSN00, SZ01, BYZ04, HHC08, Ni09]. **forcing** [AWK07, BZ09, Dom08, FM05, PPB09, Uhl05, YS07b, ZZ07]. **forecasting** [Ano08-50, Jan08, LP08, SM09b, SK08b]. **Form** [Han01, PKvdB00, IAT08, LY07a, LMN+09, LB04, MESV09, PHW08, RK07, SH07b]. **Formal** [LP00]. **Formally** [Boy02b, CLMRP08, GHMP07]. **Formation** [DC02, HKV01, Nit01, BEA09, CLL07a, CGN+07, GPL05, GH08b, KW08b, YFLS06]. **formations** [LZT09]. **forms** [MAN+06, Tak06]. **Formula** [AGH00]. **Formulae** [FF02, YMF01]. **Formulas** [GM01c, TR02b, WF06]. **Formulation** [Ano08-50, BRL02, BMQS02, BS04c, CRD02, DC01, Hua01a, HMK02, KB01, LLIK01a, LKNG01, MF00, SM09b, TRL01, VQSZ02, Wan02, vdVvdV02, AAC07, AKH06, BBC+06, BACFT05, Boe05, BRP05, BW07, BP04b, BMDS05, BSP06, CQRW05, CFR08, DMBS05, DB04, DBS06, Gla05, Gra06a, GAC+09, Gui03, GD07b, GK05, HLMM07, HO03, HMM07, IX07, IX09, IDD04, Kim05, LSB04, LSJA05, LVW06a, LY04, LC06b, LBL04, Mad05, MP07b, NMS07, Pap08, PL09b, Pon09, PR03, PR04b, Pon06, Pon07b, PR06, SM09a, SRM09, SKS08, SS06a, SMP09, SP05b, SS05b, VMN07, VQLZ04, WG09, Xia04, XAI06, XJ07, XLP05, YB06, YAvdB+08, ZVQ07, dSMF09, LLIK01b]. **Formulations** [IK01, WK01b, Dem04, FHLO08, GLT07, KG08, NV09, NZ05, SB06c, SD05a, VB09, WFC09, ZW06]. **forth** [DL03b]. **Forward** [UH01, AvdB04, LDW07, NSS03, RMGK04]. **Forward-Adjoint** [UH01]. **forward-trajectory** [NSS03]. **forward/reverse** [RMGK04]. **FOSLS** [HMMR04]. **Found** [BS00e]. **Four** [LCS02, Saf00, Saf02, BUEG06]. **Four-Center** [Saf00, Saf02]. **Four-Dimensional** [LCS02]. **Fourier** [DK06, ZGSD06, AC05, BK08, BS04c, BTSM09, Boy02a, BRB03, Boy09, BHP07, CLTA07, Che00a, Che00b, CKGL02, CKG04, Eli02, Eli03, Eli07, FBHV05, Fou06, GTD01, GLLN09, HO03, IA06a, KDK+07, KS09, LS03,

LDL+09, MLFG06, Nas08, OLLL03, SSN09, SB06a, SS09a, SRNV07, SZLW06, TCN09, VB08]. **Fourier-sine** [BRB03]. **Fourier-spectral** [FBHV05]. **Fourier/finite** [GLLN09]. **Fourth** [BRL02, CVB06, GBS06, Lai02, MG07a, PKP01, XCZ02, YP01, Zha02, AV05, BC05, BGN07, CC03, CFJ09, GF05a, KKM08, LM08a, Nas08, SRX07, Hau08a]. **Fourth-Order** [BRL02, Lai02, XCZ02, YP01, Zha02, CVB06, AV05, BC05, CC03, CFJ09, KKM08, LM08a, Nas08]. **Fourth-Order-Accurate** [PKP01]. **Fractal** [WWVG00, AST07, CMP07, PC06a]. **Fraction** [Lin01, CMSZ09, Lap03]. **Fractional** [BE02, CGP02, Cod01, LOK01, VSG05, CLTA07, Cui09, Den07, Dom08, GSV06, HVAC09, LH05a, LDW07, LX07a, LP07b, LCdCN+03, MST06, PC08, PCS+09, Sou09, TMS06, TM07, Yus06]. **Fractional-Step** [BE02, LOK01, GSV06]. **Fractions** [SZ00]. **fracture** [LMH07, PKKL05]. **fractures** [TM05]. **Fragmentation** [Hew03]. **frame** [DDGS09, YGL05]. **frames** [AKH06, HHM04, KH07, PK07]. **Framework** [OCK+02, STiST02, Abr06, AJ09, AKO09, BG09, DBTM08, FLM08, FCD+06, FMD+09, GZ09, HMA05, Kou09, PHKF06, PBH04, SPT05, TCO+04, TJLT08, VP09a, ZG08]. **Free** [Bal01, CBKM00b, DF00a, FCGK05, FG02, GHG01, HB02, OF02, SDD07, SCD00, TCM+00, WSI08, ZTZ02, vBRK01, AMS03, Bal09, BRDM09, BS04b, BKM09, BPL06, BGN03, CPR05, COQ06, CS05, Cha07a, Che03, CEH09, CZ09, CLS04, DS05a, DQA08, DST07a, DKTT07, GT09b, GFR09, GS06b, GS03b, GCCD07, GAC+09, GS09d, HWL08, Hel05, HZ07b, Hum05, KR09a, KK04, LZ07, LMX+08, LRS07, LL04b, LSJA05, LG07, LSV09, LY04, LD04, LZH+07, MRC06, NJX09, NK08, NMS07, OTCM08, PN03, QP03, RB05, RMF08, SDGX07, SE04, SKXK05, TW07, VP09b, XMP07, YMT+04, YP06, YH07a, ZL09, dSMN+04, vZS07]. **free-boundary** [AMS03, VP09b]. **Free-Lagrange** [HB02]. **free-plasma** [Hum05]. **free-streaming** [GS06b]. **Free-Surface** [DF00a, GHG01, vBRK01, WSI08, Che03, DS05a, GFR09, GS03b, GCCD07, GS09d, PN03, RMF08, SE04, YP06, ZL09]. **free-surfaces** [Hel05]. **free/Galerkin** [SKXK05]. **Freezing** [JC02]. **frequencies** [KR09c, RMV03, WC08, OS01]. **Frequency** [CBB01, DDF01, DFT01, ERT02, GKL00, HMM02, POS00, TK02, ACR08, BL09a, BCDW06, BO09, CJSS08, CdHST08, DH04, DNS08, FLE03, JLOT05a, JY08, MBS03, MJ06, PL09a, PS07c, RKE+07, TET09, TMND07, WB09b]. **Frequency-Domain** [CBB01, CdHST08, FLE03]. **Fresnel** [YFS01]. **friction** [BIW04, BBF+08, HC08]. **frictional** [ZVQ07]. **Friedrichs** [KOQ04]. **Front** [BSJ01, GNNB08, JC02, LS08, SJ02, TNGH02, TB00b, TBE+01, ZH01, CB09, DFG+06, Fan08, HSL08, LLP07, LLGL07, kM07a, MT08, SAM05, TZ06, TT09, WKB07, ZEA06, dSMN+04]. **front-capturing** [CB09, dSMN+04]. **Front-Tracking** [JC02, TNGH02, TB00b, TBE+01, ZH01, Fan08, LLP07, kM07a, MT08, TZ06, TT09, dSMN+04]. **front-tracking/front-capturing** [dSMN+04]. **front-tracking/ghost-fluid** [TT09]. **Fronts** [JW02, Set01, LMS05, Vol04a]. **Frozen** [CS01c]. **FRS** [AMP09]. **fuel** [CKPW07, SXyWX09]. **Full** [Edw00, HJKO08, ZH09, EZ08a, FCJ08a, FM06, IITV07, LJW07, OX04].

full- [IITV07]. **full-Burnett** [OX04]. **Full-wave** [ZH09]. **Fully** [BN04, Bon00, BSW05, DOWB01, HLS02b, MVO04, APR09, ALT08, AMP09, CL06b, CN05, Dim07, Fan08, HHMK05, JLT06, KT04, LC06a, LRZ04, MG07b, ODCK07, RWMK03, RSW06, RJM07, RSTB03, STD+05, SMP09, SC09b, WAO+04, WDÖ+03, YM07]. **fully-implicit** [Dim07, WDÖ+03]. **Function** [CHR01, GST02, hRT02, Bea08, BHNPR07, BKM09, Boy06, CWJ07, CMSZ09, CTS07, DSB06, DL03b, FP08b, GS06b, JSCZ08, Khe04, KAS06, LL04a, MP07b, MJ07, OJW06, Pee03, RRC05, RK07, SC08a, SH07a, SCT06, Sme06, TB09, Tow07, TW03, WZ07, Wen07, Wen09, ZJW06, ZC09, dHRvdB07]. **function-vorticity** [LL04a]. **Functional** [FS00a, FS00b, Lou00, VD00, VD02, BT03, Chr03, ET06, FHW07, GMH06, HdGKG08, PG04, SF03, VD03]. **functionally** [ZB07]. **functionals** [Küm04b, RSS09]. **Functions** [BS00e, CY00, GST00, Goe00, MS01, RS00, Saf00, Saf02, AKLMP09, BZ08, CT09, CQO04, CCJ07, ETT05, FB08, FW07, GG09b, HBHS09, HKS09, HS03b, IR09, JTL09, KMID05, KLW09, KR09c, LM08a, LCW04, LJS08, LJW07, MLSD07, MG08, MT07b, PLS+09, RC09a, RA09, Tow08, Tow09a, Tow09b, WF06, YZLH09, Yin06]. **Fundamental** [BR01, BB08a, SY09b, YJF+06]. **Fup** [GG09b]. **Further** [CKG04, SVB09, CM03, Hig05]. **fusion** [Jar04]. **Future** [Ano00q, Ano00r]. **FV** [AT09]. **FV/FE** [AT09].

G [LM03a, VP09a]. **G-Scheme** [VP09a]. **GaAs** [GS06a]. **Gal** [WS04]. **Galerkin** [Ain04, AB07, AKLMP09, AQ00, APQ03, BKST09, BC01, BCDR06, BDHN09, BRC+09, BS04c, BSB01, BG05b, CKLS05, CC07, CELS07, CS07b, CS08b, CHG+07, CJ07, CLS04, CFP06, CR00, CHPR09, CBS05, DD09, DLP08, DF04, DBTM08, Eg07, ES06, FCJ08a, FCJ08b, FK07a, FOLD05, Gab07, GLM07, GLMH09, Gel06, GFR09, Gir00, GHW02, Gir06, GR08, GLLN07, HH02a, HH08, HA02, HEML00, HO03, IK01, JH06, KCGH07, KvdVvdV06a, KvdVvdV06b, KvRvdVvdV07, KWBH09, Kri07, KLM05, KWD07, KDW08, LGHD08, LL01a, LSY04, LSJA05, LSZZ08, LS00, LY06, LX07b, LNXNTX09, LGM08, LZC04, LMSW02, LMNK07, LBL06b, LBL07, LBL08, Ma05, Mac07, MRC06, MY09, MESV09, MPFC08, NM06, NL08, NPC09a, NPC09b, PvdV08, QS04, QKS06, QLK07, RH01a, RBS06, RBvdV08, RC09b, SFE07, SMB09, SR09b, WM07]. **Galerkin** [WM09, WG09, WKG06, XXS07, XS06, XS09, XS05b, XLS09a, YS06, ZQSD08, ZQ09, vdVvdV02, vdVX07]. **Galerkin-free** [SKXK05]. **Galerkin-like** [LNXNTX09]. **GaN** [GS05a]. **Gappy** [GSK06]. **Gas** [BZW01, CKR00, CKR01, DC02, FS01, GV02, HK00, KMA+01, LZ09c, LX00, OB02, Sai02, SZS01, SPC01, SB02, TX00, Xu01b, Xu01c, Xu02b, dSAK00, AK09, BPMR08, BS04b, BDCG03, CPR05, CELS07, CJR04, CDL04, DDK06, DVHM05, Fox08, GS05a, GC06, HP04a, HH06, JX07, KKM08, KD09, KK05a, KW03, LSL08, LM04, LZ04, LF06, LL07, LKW05, MEKS03, MSJ07, Myo04, NFvS+06, OLA08, OK07a, RC06, Sam09, SH07a, SSB07, SE09, SFX03,

SHY07, SY08, SS09c, SHPC09, SBC04, TXCD07, TT06c, UBRT07, VVS08, WTL08, WZ03, XH03, XMT05, XHC08, YHSX07, ZXQX08, ZRS06]. **Gas-Kinetic** [CKR00, CKR01, LX00, TX00, Xu01b, Xu01c, Xu02b, LZ09c, JX07, LF06, MSJ07, SY08, TXCD07, XH03, XMT05, XHC08]. **gas-liquid** [DDK06, HP04a, LL07]. **gas-particle** [Fox08]. **gas-phase** [OLA08]. **gas-solid** [DVHM05, HH06, MEKS03]. **gas-water** [LKW05, WTL08]. **Gasdynamics** [Myo01, QCGQ03]. **Gaseous** [VG01]. **gases** [SM05, VS09]. **GASpAR** [RFFP06]. **Gauge** [BU02, PS07d]. **Gauge-Uzawa** [PS07d]. **Gauges** [SS01b]. **Gauss** [ABHT03, AB05a, CLS05, KK07, VB08, WK06, WGCE01, ZHSS09]. **Gaussian** [ADK00, ADK02, BZ09, Cam03, Chr03, FG04, HMA05, KKS07, LQ09, TET09]. **Gaussians** [PC02, TB09]. **Gautschi** [BHvdV06]. **GDG** [FCJ08a, FCJ08b]. **Gegenbauer** [Boy05b, Lur07, MLFG06]. **General** [ALT08, AG09, BLW01, CL01b, CRD02, DPCV02, Edw00, ELC02, LBD02, PW00b, PW01, AK06a, ADR08, Bar04, BRC$^+$09, BP09, CDDL09, CWYM08, CEH09, DHOT09, DSJ03, ERVE09, FLB03, GCGE03, GSB03, GBS06, Her09, HR07, KA05, KPK09, KS08b, Kuz06, Lau06, LJ09a, LH08a, LGM08, Mac03, MS03, MJT06, MSO04, MY03, NN04, RAB07, RCD05, RH05, SS05a, SP06a, XDB09, Yam05, YHSX07, ZH04, vdVvdV02]. **General-Purpose** [DPCV02, Kuz06]. **generalization** [Ber06a, PS07a]. **Generalized** [BTFY01, IK01, Kro05, Lin01, LR01b, Mit00, Myo01, NL09, RMF08, SKAS01, SS00, VSV03, VQSZ02, Yon01, AS07, AK09, ABRR09a, ABRR09b, BSW03, BLW04, BS08a, BBvdV06, CXB08, CJSS08, CYS06, FCJ08a, FCJ08b, FRS08, GH03, JMZ04, LY07a, LS07, LX09, Myo04, PPB09, ST06, SHY07, SK04b, WFTS05, WG08, WK05, WAH09, XK03]. **generalized-Laguerre** [BS08a]. **generated** [EES09, FNBB$^+$08, MR07b, MSB07a, SM09a, WF06]. **generating** [FE04, GZ08, HvHHS05, Nit05]. **Generation** [AJG01, CFGK05, GW06, VB00, VRM07, CGDT09, CJ04, GS09d, Hua05, Kar04, Kau03, KSJ03, LB03a, RS09b, SE09, TDWY08, ZJW06, ZJWC08]. **Generator** [MDJS07, Aza06, KE09, MWM03]. **Genetic** [HCG01, MK02a, RS02, KGJ05, MC03]. **Genetic/Powell** [HCG01]. **Genuinely** [GF02]. **Geodesic** [Gir00, TTSG01, JC06a]. **Geodesics** [MS01, YC06a]. **geomaterials** [MDM03]. **Geometric** [CK08, FGG01, Gos02, IKS01, MG07c, OCK$^+$02, SK07a, BGN07, ÉGP09, JY08, KS08b, MY06b, SS09a, YW07]. **Geometrical** [dSM05, AA07, AMSZ03, CMSZ09, CQRW05, JW06, LH08a, Wen06]. **geometrically** [AK06a, BCZ04, GS05c]. **Geometries** [CL00a, CL01b, DDH01, KKC01, LMS02, Mie00, BWLM09, BYZ04, BS04c, CJ07, GCGE03, GN07, GBS06, GMO04, KB06, LV07, MCM04, MCGV04, MMPB07, MK06, PKD07, PC08, Pop03, RJ06, SROCdPFF05, TAL09, YXLF05, ZJWC08]. **Geometry** [ART02, CRB00, Lai02, LBV00, LBV01, OS01, PW00b, PW01, AMSZ07, BAFL09, BTT08, BBW06, BP04a, CGRGV$^+$04, CR05, CP07,

GIA+08, HSZ04, Jao07, KZWY09, LG04, ML05, ML06a, Mai09a, MS08a, ORM06, OPML07, Pro03, RB09b, SP06a, TF03, XSG08]. **geometry-aware** [ML06a]. **geometry-based** [CR05]. **geometry-compatible** [BAFL09]. **geometry-dependent** [ML05]. **Geophysical** [Bar02b, RFFP06, FD09b, PS03b]. **Geophysical-astrophysical** [RFFP06]. **Geostrophic** [FR02, MPD03, TRSK09]. **Gerris** [Pop03]. **GeSEM** [CJSS08]. **GFD** [CYS06]. **GGB** [WFTS05]. **Ghost** [Fed02, LKY03, BF08, DMP08, FRS08, LKW05, MMPB07, TF03, WTL08]. **ghost-cell** [TF03]. **ghost-fluid** [MMPB07, TT09]. **Gibbs** [Boy05b, JS07]. **Gilbert** [dSM05]. **Ginzburg** [DDG02, RSS09]. **giving** [TW05, TR07]. **GKS** [GLLX08]. **glass** [Thö04]. **Glimm** [Min07]. **glitch** [Tan05b]. **Global** [DSS00, LRMB08, RTT01, BG07, CGM07, Gel06, GD05, LJS08, MC03, NSS03, NLLE06, SMT+08, THN+07, WFTS05, WDÖ+03, dDEK09, ADK02]. **Globalization** [BB07a]. **Globe** [LR01b]. **Globular** [DPRS01]. **Glow** [hLA01, SS04]. **GMRES** [GKL00, NOG08a, TWS02]. **Goal** [BTWGvBW07, OV00]. **Goal-Oriented** [OV00, BTWGvBW07]. **Godunov** [AT05b, BSKH07, CJR04, CCF+05, FF02, GS05b, GS08, GR04, Gui02, HB02, LD04, MN09a, MP05, MC01, Min07, MC07c, PK03, SWK06, SZS01, TB06, TFD06, Xu01c, vBK03]. **Godunov-type** [AT05b, CJR04, LD04, MN09a, PK03, TB06, vBK03, Gui02]. **Good** [Vas00, ZYHS07]. **Gordon** [BY07, HJL09, HZ08, RBK09]. **GPU** [ELD08b, PVPS09, YWC07]. **graded** [HO08a, MGC06, MG06, MG07d, ZB07]. **Gradient** [JLCD01, JTB02, PKvdB00, Whi00, ZCMI01, AMLC08, CSL08, DEHL06, Fen06, JBHK08, KDF07, Küm04b, Ovt08, RSS09, RBT03, Tok06a, Tow09a, Yan09]. **gradient-dependent** [JBHK08]. **Gradients** [HGN00, Cho05, DL03b, LP06a, ML05, Pro08, SNLS03]. **Grain** [KAIN01, CP04b, ES03a, EES09, SW04a]. **Grain-Boundary** [KAIN01, CP04b]. **grained** [IM07, KMV03]. **Granular** [CB02, TNGH02, FPT05, KD09, SM05, Vol04b, VQLZ04, ZVQ07, ZD08]. **granular-flow** [VQLZ04, ZVQ07]. **granular-gas** [KD09]. **graph** [LQX06]. **graphics** [ALT08, GD08, KWBH09]. **grating** [DBB06]. **gratings** [BHS03, BS04d, BS05]. **gravitating** [BvdHKG07]. **gravitational** [DHM03, NB04, TXCD07]. **gravitationally** [GBC06]. **Gravity** [BTFY01, Cha09, DQA08, GB08a, Kas07, VBL04]. **Green** [BKM09, CY00, CWJ07, CTS07, DSB06, FDD09a, JSCZ08, KR09c, MLSD07, MRRS05, OJW06, PLS+09, RK07, SCT06, dHRvdB07]. **grey** [DL04, ED07, MYW07]. **Grid** [AJG01, ALGM01, AV02, BdLL01, CL00a, Cal02, CL01b, CR02, DCV+01, DDH01, FH00a, GG00, HH07b, HLS02a, HLKS00, KT06, KKR01b, LP02, LLQ+02, MCJ01, Par02, RW00, RMO00, SMP01, SY03, SMO00, TTSG01, TSG02, UMRK01, VD00, VD02, WZ00, XCZ02, Yam01, YC02, YSC01, dSAK00, vdVvdV02, AC09, Aza06, BGM08, BS04b, BCM+07, CL06b, CP06b, CP06c, CK08, CGKM06, CSML06, CK07, DMHP07, DCF+08,

DTMS06, DG09, FS04, FL03, GZ07b, Gro06, Gro07, HZGB04, HZGB05, HC09, Her08, JX06, JX07, KE06, Kau03, KZWY09, KAK03, KAS06, Lap04, LZ07, LZ09b, LZ09a, LR07, LKMU05, LQX06, LSW08, LRS09, LBL06a, MZ09, MWM03, Mad06, MKLU05, Men04, MZ07, MD06, MHE06, MV08, MK06, MO06, NMM+07, OK06a, PS03b, RW03, SS03a, SROCdPFF05]. **grid** [SBCL06, SMS04, SZ05, SS07b, SS05b, SP06a, ST03b, TJS03, THL06, Thu08a, TU04, VD03, WW04, YMT+04, YU05a, YXLF05, YSS05, ZG08, ZT03, dTDI+07]. **grid-alignment** [BGM08]. **grid-based** [CP06b, CP06c, MO06]. **grid-free** [BS04b]. **Grid-Optimized** [CL01b]. **gridfree** [SC08a]. **Gridless** [OC08, KL04, LBL06a]. **Grids** [BE02, Car01, DV02, DPCV02, DI02, Edw00, FGG01, GZ01, GHV00, GW01, GC02a, Gir00, HLS02b, HH01, HW02, HA02, JK00, KC00, LM01, LLdlP+00, SZ00, TC01b, hRT02, Wan02, WL02, ZTZ02, Aza07, Aza09, BAYZ08, BFB08, BSKH07, BHS09, BMT09, CCV03, CWYM08, CMG09, CEH09, CYS06, CSL08, CSKD05, CT07, DSM09a, GS09b, GSB03, GF05b, HWL08, HV03, HNF07, HKG08, HS03a, HS06, HS08a, Her08, HHMK05, IA06b, JH06, KK05a, KKCF09, KK03b, KPK09, Kok09, KPP09, KDW08, LSB04, LLY05, LVL05, LM03a, LCH03, LJW09, LVW06a, LVW06b, LLB05, LH08a, LS05b, LBL06b, LBL07, LBL08, MS03, MJT06, MGC06, MG06, MG07d, MCN03, MCP03, MLS+05, NE05, OSK09, PS04, PS08, PSM08, PL07, Rem06, RRW05, RWWS07, RCB05, SB06c, SS05a, STZ07, SPGR06, SWL06, TZL05, TRSK09]. **grids** [TDGP06, TMG08, VGPL09, VSW04, VSW06, WZL04, WG09, WA08, WdND06, XLS09a, XLS09b, YJL+06, YJ06, ZT07b]. **Grooving** [KAIN01]. **Gross** [BJM03, CORT09, CJK+03]. **Ground** [BT03, FGOV00, BCL06, CORT09, Woo06]. **Ground-state** [BT03]. **Ground-States** [FGOV00]. **Groundwater** [MBP00, WGNT06]. **group** [BFJ03, BMK+06, HJFW04, San03, Har04]. **group-III** [BMK+06]. **growing** [Mad06, MM07]. **Growth** [CMK+01, GW02, GGL+01, JK02, RV00, BHL+04, CLL07a, CF06b, DQA08, EES09, HLX06, LB03a, ML05, ML06a, MWG+06, NDG05, PSCQ03, RS06b, SSE03, SA06, Sus03, TZ07b, WLT08, YFBH07, ZVHP03]. **GRP** [BALW06, BF07, LLS09]. **Grüneisen** [Shy01]. **GSHMC** [AR08]. **guess** [TDV06]. **guesses** [BHL07]. **guides** [GP04]. **guiding** [Mot08]. **Gyro** [BB09a]. **Gyro-water-bag** [BB09a]. **Gyrokinetic** [KP00, Par02, BB09a, CW03, CP03c, CP07, HKM07, HJKO08, IITV07, LGKP07, NLLE06]. **gyrokinetic-Maxwell** [CW03].

Haar [LKNG04]. **Haidvogel** [SM09b]. **HALE** [AHNS09]. **Half** [DK02b, TFDK04]. **Half-Moment** [DK02b]. **Hall** [CK03, ODCK07, TMG08]. **Hamilton** [BL03, CQO04, CC07, CS07b, CY05, FF02, KOQ04, KOQ08, KR02, KT00b, QS05, TTZ03]. **Hamiltonian** [JW06, BM01c, BRP05, CKL00, GAC+09, LY07a, Rei00, Tan05a]. **Hamiltonian-preserving** [JW06]. **Hamiltonians** [ESD05, KJ01]. **Hancock** [Waa09]. **Handling** [FPC+00, BOT05]. **Hard**

[WB01, DTSC04, DTS05a, DTS05b, DST07a, NFvS+06]. **hard-particle** [DST07a]. **hard-sphere** [DTSC04, NFvS+06]. **Harlow** [Bra04]. **Harmonic** [CKGL02, KMHR00, LTZ01, SS00, APT09, AG09, BCR04, BHNPR07, DLP08, EHD08, Gab07, GG09a, GD07b, LTD+06, MKOW04, MHPR08, Tyg08]. **harmonics** [KL06, WJV07]. **Hartmann** [HY11, HY09]. **Hartree** [FHLK05]. **Haurwitz** [SD06]. **having** [Wen06]. **HD** [Saf00]. **heap** [NFA03]. **heap-based** [NFA03]. **Heaps** [Mu02]. **heart** [NLT07, vLAvdV06]. **Heat** [BW01, CS01b, CPK02, IYI+02, LLH02, LTK+02, MCJ01, ZZ01, AMXL09, DQ04, FHLO08, FF03, FDK06, GF05a, GL06, GYKL05, GLT07, GL09b, HL04, HC09, JG09, LG07, LCNR07, LR03, MJ09a, MSP+06, MR07c, Mou04, PFSL07, PS07c, SBCL06, Tau07, Thö04, TFDK04, VB08, YYF09, YLD09, YSW06]. **Heat-Transfer** [IYI+02]. **heated** [FPT05]. **Heating** [OL01, Rid00, DMR09, FLB03]. **Heaviside** [MG08, Tow09b]. **HEFAT2005** [Ano05s]. **Height** [Bon00, FB08]. **Hele** [FS04, KW08b, LLL07]. **helically** [LP07a]. **helicity** [LW04]. **helicopter** [EHD08]. **Helium** [GG00, LKE04]. **Helmholtz** [AST07, AAC07, AHPT07, AC05, AQ00, BB08a, BFT07, BFT09, BKM09, BK08, Boy05a, CWJ07, CHL06b, CCG+06, Dar02, FT05, FSY00, GKL03, Had05, HMPR07, IK01, KTD03, KR09c, LT09b, MP03, ND04, Pri08, RKE+07, SFY01, ST04, VW02]. **Hermite** [Cap08c, BS08a, Cap08b, Cap09, GS06b, LBL07, QS04, QS05, TCN09]. **Hermitian** [Cap05, Cap06, Ovt08, SPLM09]. **Hessian** [AI09]. **Heterogeneous** [CGSS00, DPRS01, OV00, RE05, AE03, AZ06, CCV03, CDS04, GZ07a, GZ09, GLLN07, GLLN09, JLT06, LZT09, LTZ03, LH05b, RKE+07, SMGJ09, WGNT06, YE07]. **heterostructures** [BNNP06, WHLL03]. **Heuristic** [Dwi08]. **hexagonal** [Thu08a]. **Hexahedral** [MHS01, ZYC02, Aza06, Aza07, Aza09, CFP06, FM08]. **Hierarchical** [Deh02, XLS09a, XLS09b, KF06, MZ09, MG05a, VCM00]. **hierarchical-element** [VCM00]. **High** [AC00, ACY00, APTJ+04, AHNS09, BS00a, BFT07, BBMB07, BRC+09, BLM03, BTW03, BGLN05, BK01, BL03, BSB01, Car01, CL01a, CP04a, CKGL02, CYKC01, CS06, CS07d, Coe02, CR00, CSP01, Cor00, CFR08, DT04, DZ00, DBBP08, DR09b, DDFT09, DLS+00, ERT02, FT01, FR03, FCB02, FG02, GZ01, GF02, GHW02, Gir06, Giv01, GN03, GP00b, GLN06, GKL00, GL08, HMOG08, HW02, HT00a, HT00b, IX09, JH06, JK00, KZ04, KMS03, KT06, KMA+01, KB01, KB06, Kry04, KT00a, KT00b, KT04, LL09, LG04, Li08a, LYC09, LS00, LCS09, LR03, LF04, MN06, MP05, MC06b, MC01, MD01, NM06, NR01, Nic00, Noe00, NXS07, NC01, NT07, Nys02, OGV02, PW00b, PW01, QS02, RH05, SLY02, SYG06, SZC09, SS05a, SHY07, SL07c, TK00, TX00, TWYC06]. **High** [TCN09, TD07, TB04, TS02, VCP00, Vas00, WH02, WSYS09, Wen07, Wen09, WAH09, XS05a, XS06, XK01, YHSX07, ZTZ02, ZW04, ZT03, ZW03, ZZFW06, ZS01, de 00, Ain04, AMR06, ACR08, AC09, BRDM09, BSKH07, BHS09, BFT09, BdCB09, BBCT09, Boy06, BSW05, BH04, BHP07, BJP04, CJSS08, Cap08c, Cap09, CT08a, CQO04, CK03, CTS07, CC07, CS07a, CKG04, CFP06, CC04, CF04, DSM09b, DE06, DC07, DTMS06, DDH05,

DI09, DK07, DET08, DZ09b, FNS07, FOLD05, FD07, GPC07, GG04, GH08a, GSV09, Gom08, GL06, HH07b, HLS06, HWL08, HS03a, HS06, HJJ09, HY09, HY11, HH06, IQ08, JD09, JBF07, JLOT05a, JY08, JS05, KE06, KCGH07, KG09, KM06, KM07b, KK05b, KLK08, KYK07, Kok09, KPP07, KPP09, Kri07, KR09c, LG09, LL05, LTZ03, LX09, LN09]. **high** [LDW07, LR07, LF05, LTD$^+$06, LS09, Mai09b, Mai09a, MRS09, MY06b, MOG09, Min04, MPFC08, NLF03, NOG08a, NOG08b, NPC09a, NPC09b, NWZL08, NF09, NGvdWS09, OF06, OVG07, PPDM08, PPCW06, QW05, QA09, QFR04, RRW05, RKE$^+$07, RF06, SDM04, SWK06, SFE07, SMB09, SZS03, SZ05, STZ07, SJHM09, SY03, SGG$^+$04, SCN07, SN08, TET09, TFD06, TDWY08, VWW04, Wan04a, WL06, WM07, WGRA09, WZ07, WA08, WMH07, XCRX08, XP04b, XS05c, XYK05, YC09a, YS07a, YBZ06, You06, ZL04, ZJ09, Zho07, ZYHS07]. **high-** [CK03]. **High-accuracy** [AHNS09]. **high-amplitude** [PPCW06]. **high-dimensional** [DI09, LDW07]. **High-fidelity** [NT07]. **High-Frequency** [ERT02, ACR08, RKE$^+$07]. **High-Order** [AC00, ACY00, BK01, BSB01, CL01a, CKGL02, Coe02, CR00, CSP01, DZ00, DLS$^+$00, FT01, GHW02, Giv01, HW02, KB01, LS00, MC01, NR01, Nic00, NC01, Nys02, QS02, SLY02, TK00, TX00, TS02, VCP00, WH02, XK01, ZS01, de 00, APTJ$^+$04, BFT07, BBMB07, BRC$^+$09, BLM03, BL03, DR09b, Gir06, GN03, GL08, HMOG08, JH06, KT06, KB06, LL09, LF04, NM06, NXS07, RH05, SS05a, TWYC06, TCN09, TD07, WSYS09, WAH09, YHSX07, ZW04, ZT03, AC09, BFT09, BdCB09, BH04, BHP07, Cap08c, Cap09, CT08a, CC07, CKG04, CFP06, DSM09b, DC07, FNS07, FOLD05, FD07, GPC07, GG04, GH08a, Gom08, HH07b, HWL08, HJJ09, JD09, JBF07, KE06, KK05b, KLK08, KYK07, Kok09, KPP07, KPP09, Kri07, LTZ03, LN09, LF05, LS09, Mai09b, Mai09a, MY06b]. **high-order** [MOG09, NLF03, NOG08a, NOG08b, NPC09a, NPC09b, NF09, QW05, SFE07, SMB09, SZ05, STZ07, SGG$^+$04, SCN07, SN08, VWW04, Wan04a, WL06, WM07, WA08, WMH07, XCRX08, YC09a, YBZ06, You06, ZL04, ZJ09, Zho07, ZYHS07]. **High-Order-Accurate** [OGV02]. **high-performance** [XYK05]. **high-Re** [KM06, KM07b]. **High-Resolution** [FCB02, GF02, GP00b, JK00, KT00a, KT00b, MD01, Noe00, PW00b, PW01, ZTZ02, BTW03, GLN06, Kry04, KT04, LR03, SYG06, SL07c, KG09, BSKH07, BBCT09, CC04, OF06, SWK06, SJHM09, TDWY08]. **High-Reynolds-Number** [FG02]. **High-Speed** [KMA$^+$01, BHS09, HS03a, HS06]. **high-wavenumber** [CC04]. **Higher** [DV02, Fox09, GP05, HM04, JMC03, MBM01, PM00, SH07a, SP06b, Tol07, VGCN05, VG02, YMT$^+$04, vZdBB07, APP$^+$07, FRS08, GLT07, HMPR07, Hel09a, HMMO05, HB05b, KPB08, MC07c, MHPR08, ODAF07, PKD07, WD07, ZJS08]. **Higher-Order** [PM00, VG02, Fox09, JMC03, SP06b, YMT$^+$04, vZdBB07, APP$^+$07, FRS08, HMPR07, HMMO05, HB05b, KPB08, MHPR08, WD07]. **Higher-than-fifth-order** [Tol07]. **Highly** [CL02, FK02, SE09, deM02, DGH08, EG08, HH07a, HDR$^+$06, Lar07, MD06,

SWB+06, WGNT06, vdDA06]. **highway** [ZWS06]. **Hill** [DK06]. **Hilliard** [CR07, CFP08, pHL09, KW06, KKL04, WKG06, WKL07, XXS07]. **histogram** [BS09a]. **history** [BS07]. **HLL** [Jan00, MK05]. **HLLC** [Cap08c, HJ07, HAI09, KLLJ09, Li05]. **HLSM** [Cap09]. **HOC** [KR09a]. **Hodge** [Sum00]. **hollow** [DJ04]. **Holm** [COR08]. **Homentropic** [KLvBvL02]. **homoenthalpic** [BEA09]. **Homogeneous** [Cle00, SPW+00, BIVC07, FR03, KM07b, KW03, PH09, SBA07, TMD07, GM04]. **Homogenization** [PR01b, AE03, SKR06, YH07b]. **homotopy** [LR07]. **Hood** [LSA06]. **Hopper** [GM01b, GMO04, GMS06]. **hopping** [KLW09]. **hot** [GS05a]. **hot-phonon** [GS05a]. **hp** [BW01, ES06, NM06, PP09, PR03, PR04b, PR06, SC01]. **hp-finite** [PP09]. **hp-multigrid** [NM06]. **Hubbard** [CD04]. **Hugoniot** [JR09]. **human** [BCDW06, XS07, ZK04]. **Humans** [POS00]. **Hutter** [FNBB+08]. **Huygens** [Bér07]. **HWENO** [BAMD07]. **Hybrid** [BM02, Bow01, CS03, EFFM02, EF02, EF03, GK01, HL07a, HP04b, HCG01, JPMC01, KC00, LS02a, LM01, MPC01, MPC02, Pir02, QL01, RB02, SA06, Stu01, WWK05, vdHK07, AK06a, ABRR09a, ABRR09b, AJ09, AGW07, BFB08, BAMD07, BCCV09, BB09c, CCG08, CHB09, CYS06, CD07, CDL04, CDL05, De 04, DBF08, DR06, DUEB07, GXW07, GS05c, GN07, HR08, IH04, KA05, KK05b, Kwo08, LG08, LM03a, LKO05, LBL06a, MC07b, MCP03, NTO+07, NK08, NG06b, OK06b, PLS+09, PGN08, RJ06, RLZ03, SRM09, SB06b, She08, SCRL08, SBC04, SK06, TKH09, VTC+07, ZH04, ZL09, ZSB+08]. **hybrid-Vlasov** [VTC+07]. **hybridizable** [NPC09a, NPC09b]. **hybridizations** [RGK07]. **hydro** [LW04]. **hydro-** [LW04]. **Hydrodynamic** [Myo01, NJLA06, SMP01, AK09, BS04a, BM06, BTC05, BH09, BBW06, Che04, CELS07, DJM05, HGBH03, HLFB07, HS09b, LCB04, Li08a, LYC09, Myo04, SP04, SE04, SO08, SY08]. **Hydrodynamical** [Rom02, ZD00]. **hydrodynamically** [AGW07]. **hydrodynamically-interacting** [AGW07]. **Hydrodynamics** [BKR+01, BZ08, CRB00, CPK02, DW00, iI02, PM02, ZF02, ASPB03, BRDM09, BZ04, BBC+06, BOT05, BD06, CGSR08, CL06a, CDDL09, CFL+03, CL03b, CEL06, DST07b, ESE07, HK08b, HX05, HG03, KSW07, Li05, LC06b, LSW08, LRS09, MN09a, MC06b, MESV09, Min07, MC07c, MHW05, RHPN09, TM05, TMSW07, ZB07]. **Hydrogen** [CP00, GG00, BRB03]. **hydromedusa** [SM09a]. **hydrophobic** [ZTPM05]. **hydrostatic** [BKLL04, IHL03, SE04, SP06a]. **Hyman** [RV07]. **HyPAM** [ZL09]. **Hyper** [MS01, DHM03]. **Hyper-Surfaces** [MS01]. **hyper-systolic** [DHM03]. **Hyperbolic** [AC00, ACY00, Asl01, ADK00, ADK02, BJ00, BAFL09, DKK+02, Dur00, FMO00, GC01, KKP02, LL00, LMSW02, MOS+00, NTYT01, NTYT02, PL01, RC00, Sti02, TS01, Xu01a, YL01, Abg06, AC09, AKLMP09, BR09a, BBCT09, BCCD08, CLG07, Cap08a, Cap08b, Cap08c, Cap09, CT08a, CP08, CGKM06, CD07, De 04, DQ04, DK07, DKTT07, DET08, Edw06, Gir06, Gui05, HH07b, Hwa03, JR09, JTL09, JLOT05a, JAK05, KPP07, LL03c, ML08, Mil04, MC07b, NvL03, NG06b, PC06b, RLZ03, RBvdV08, RDPN07,

RBL04, Ros06, SDM04, SYG06, SZLW06, SR09b, TT05a, TT05b, THD09, THS07, TY07, Wen06, XS06, vDZ06]. **Hyperbolic-Elliptic** [Xu01a]. **hyperbolic-parabolic** [BR09a]. **HyperCASL** [FD09b]. **hyperelastic** [Mil04, YH07b]. **hyperreduction** [Ryc05]. **Hypersonic** [BM01b, KKR01a, KKR01b, ELD08b, SSB07, XMT05, XHC08, ZT03]. **Hyperspherical** [AKV00]. **hypersurfaces** [BGN08]. **Hyperviscosity** [CC05]. **hysteresis** [Spe05].

IAT [Moo03]. **IBC** [Ano07d, Ano07e, Ano07u, Ano07v, Ano07w, Ano07x, Ano07y, Ano08u, Ano08v, Ano08w, Ano08x, Ano08y, Ano08z, Ano08-27, Ano08-28, Ano08-29, Ano08-30, Ano08-31, Ano08-32, Ano08-33, Ano09y, Ano09z, Ano09-27, Ano09-28, Ano09-29, Ano09-30, Ano09-31, Ano09-32, Ano09-33, Ano09-34, Ano09-35, Ano09-36, Ano09-37, Ano09-38, Ano09-39, Ano09-40, Ano09-41, Ano09-42, Ano09-43, Ano09-44, Ano09-45, Ano09-46, Ano09-47, Ano09-48]. **ICCG** [VSMW01]. **Ice** [GC02b, Hun01, SSL00, MB04, Noe00]. **Ice-Sheet** [GC02b]. **Ice-Thickness** [GC02b]. **ICF** [DDFT09]. **Icosahedral** [TTSG01, TSG02, SMT$^+$08]. **Ideal** [SHWW00, TX00, AT05a, CCF$^+$05, FMR09, GS05b, GS08, HLS06, HT07, HJ07, LD04, MK05, NN09, Sam09, Ser09, SHY07, Tor03, TA06, Waa09, YHSX07, ZK06, Zie04]. **ideal-magnetohydrodynamics** [ZK06]. **ideal-MHD** [Sam09]. **Idempotent** [KCH06]. **Identification** [Gut00, BG09, Kou09, PS03a, VK04]. **identifying** [NLT07]. **IDO** [IKS$^+$09, IA06a, IA06b]. **IECM** [CRAG07]. **IEM** [CRAG07]. **IFC** [Ano03n, Ano03o, Ano03p]. **ignition** [VG01]. **II** [ACY00, AGT05, ADK02, BT07b, Cap06, Cap08c, CBKM00b, CP06c, CFGK05, CY05, DW00, DTS05b, FS00b, Gos04, GMO04, Hau08b, HS03b, IR09, JR04, JW02, KM07b, KKR01b, KK05d, LRN$^+$02, Lio06, LL03c, LKMU05, LMS02, MS08a, kM07a, NMH$^+$07, OKZ07, PGB05, PFSL07, PCS$^+$09, SD05b, TOZP03, Tyg08, VBJ08b, WL02, XAI06, ZLAC05, ZQSD08]. **III** [BMK$^+$06, GM06, GMS06, HT03, JW03, YU05a]. **ill** [vdDA06]. **ill-posed** [vdDA06]. **Image** [CPP02, KMA$^+$01, XDC09, DC07, FSS03, XCY06]. **Image-Charge** [CPP02]. **images** [ADE$^+$08, CJLS09]. **Imaginary** [GST02, LTE07]. **Imaging** [HSZ04, BHL07, BGR08, KNH05, KE09, PL09a]. **imbedded** [Zho07]. **IMEX** [HR07]. **Immersed** [CM00, Cor00, FVOMY00, GKV09, KKC01, KC06, LP00, LL01b, SW00, WFC09, ZP02, AKP07, Ber04, BJ09, BGS08, BP08, CFR09, CXZ09, COER07, DCK08, FM04, GS07, GMD07, GSB03, GS05c, GP05, GHMP07, HK08b, HS08b, HS08c, HSS07, HST09, HF08b, IK07, KIH09, KIHM09, LTH08, LKP06, LWP$^+$09, LJS08, LF05, LMZ$^+$08, MvW08, MDB$^+$08, NFGK07, PSC$^+$06, Pon09, RAB07, SLC07, SSND03, TZL05, TC07a, TLL$^+$08, TLK09, TF03, Uhl05, Vik03, WZL09a, WZL09b, WS09, XW06, Xu08, YS09, YZLH09, ZZ07, Zho07, dTDI$^+$07]. **Immersed-Boundary** [FVOMY00, KKC01, LMZ$^+$08, YS09, ZZ07]. **immersed-boundary/level-set** [YS09]. **immiscible** [ICO04, TBJ$^+$09].

Immittance [Mac00]. **Impact** [SDT08, ZYKW01, BZ08, CB09, GA09, KFH+04, KFIG06, KFV+05, MC06b, RGS04, SL04, TU04, UTBV03]. **impact-produced** [KFH+04, KFIG06]. **impacting** [LKY03, WSI08]. **Impedance** [HCG01, CCT05, HKS09, IKL+08, Lee07a]. **impinging** [NTB07]. **Implementation** [AG08, BK01, CTW+08, DCS00, Dar00b, Gel06, HHPW08, IK01, JC06b, KHV01, LLS09, MM01, MN02, PM00, Set01, Sof09, CLG07, Car09, CP06b, CP06c, CELS07, DSB06, FLE03, FYH+06, HWL08, KSHS08, KB06, LJ09a, Liv07, LLRP09, LQ06, MC09, Pon07a, SKS08, SHS08, SD05b, XDB09, YBS06, Yok07, vZS07]. **implementations** [VK09]. **implemented** [ALT08, CSL08, MKLU05]. **implications** [GPL05, KMID05]. **Implicit** [AC00, ACY00, AHF04, BCOS01, BCVK02, BSP06, CBKM00a, CBKM00b, CKF02, CB02, DOWB01, ED07, Gen01, GMB01, HK00, HT00a, HT00b, HLY09, HF08b, MS01, PCP08, RH01a, RLB02, RXH02, RB02, SWL00, WM07, WA02, WZ00, WS09, Yua02, ZTZ02, APR09, Alb08, Bon00, BLM03, BMDS05, BSW05, BUEG06, CFR09, CK03, CL06b, Cha07b, DPRN05, DR06, DWLM09, Dim07, DF04, FDD09a, GL09b, HR08, HAD06, HM05, HS08b, JBF07, JLT06, KCGH07, KK07, KB04, Kuz09, LH05a, LC06a, LM04, LWP+09, LM08c, LH08b, Low04, LLC+08, LZH+06, LZH+07, MvW08, MC06a, MELD08, MU09, MBS03, ML06b, Mot08, MBP07, MK03, NL08, NPC09a, NPC09b, NZZ06, NS05, OTCM08, ODCK07, RWMK03, RSW06, RJM07, RCB05, SFMP06, TBT+09, TMD07, TDGP06, TCO+04, Utn08, WPM02a, WDÖ+03, WZ03]. **implicit** [WdND06]. **implicit-explicit** [GL09b, KCGH07]. **Implicitly** [Mou04]. **imploding** [BPMR08]. **implosion** [NJLA06]. **implosions** [FRS08, KS08a]. **importance** [ASPB03]. **impose** [PK05]. **imposition** [APQ03]. **Impossible** [Azm02]. **impregnation** [Mad05]. **improve** [HM09, LY07b, SFVK06]. **Improved** [BLW01, CKR00, CKR01, EFFM02, Hei05, KK00c, MP01b, Pro03, Pro05, SK03, Xu01b, Abr07, BCCD08, BOT05, CBH03, HvHHS05, HLMM07, KZWY09, KW03, LHGF05, LP09, ML06a, MSJ07, MD06, NE05, ODAF07, Pon06, Pro07, SCW+09, TMD+08, TS07, WYS09, WKB07, XDB09, ZZ07]. **Improvement** [Bil05, FDD07, SVB09]. **Improvements** [CSC+08, HMOG08, MPFC08]. **Improving** [BL01, HMM08, TB06, AG09, GS03a]. **Impulse** [Cor00, Sum00]. **impulsively** [DCK08, KR09a, NCS03, Sam09]. **Impurities** [Gos04]. **Impurity** [VDM+02]. **inclined** [QP03]. **Including** [BMS00, DK02a, JP03, BBDE05, BL08, GS05a, HC08, HF08a, WG09]. **Inclusions** [Bal02, CGDT09, KK03a]. **Incomplete** [LZL03, Moo03]. **Incompressible** [BCM01, CFA01, ČPT01, Cod01, CMOV02, Del03b, ESE07, GPH+01, Goe00, GQ00, GSW00, HLS02b, HH02b, JL02, KA05, KC00, KM00, LLH02, LOK01, LS00, LW01, MPP01, MC00a, NFK01, Pai01, PKP01, PSN00, QV01, Ros00, Sni01, SP00, TC01b, VC00, WPW02, WPH00, WS01, Yua02, BCDR06, BGM08, BF08, BS04c, BJ09, BGLN05, CPR05, CCG08, CRAG07, CYS06,

CSL08, COER07, CMR08, CC08b, DHOT09, DSM09a, DDH05, DS06a, DSS07, EHST03, EHS+08, ÉGP09, FP08a, FL06, FGP08, GS07, Gel06, GSV06, GCNB07, GGP06, GS03c, Gri09, GR07, GS03d, GS09c, GLLX08, HAS05, HK08a, Hel05, HVAC09, HA07, HA09, HC05, IK07, IAT08, IOTK04, JLL+06, KR09a, KE06, KDK+07, KDF07, KT03, LL09, LKP06, LL05, LMX+08, LF05, LRZ04, LKO05, Liu09b, Löh04, LHGF05, MVD04, MR06a].
incompressible
[MCG08, MG06, MCN03, MDB+08, MVO04, NW07, NZ05, Neo07, NMM+07, NMH+07, Ni09, Nik06, OVG07, PKD07, PP09, PSC04, PN03, PvdV08, PR04b, Pon06, Pon07a, Pon07b, Pop03, PR06, PS07d, QS07, RBS06, Ros03, Ros07, RFVP09, RW03, SROCFF03, SROCdPFF05, SC08a, SFE07, SD05a, SD05b, SS06a, STZ07, SKXK05, SZH07, SSH+07, TZ03, TZL05, TLK07, TLL+08, TJS03, Utn08, VCT07, VSW04, WRu03, WB09a, Xia04, XAI06, XP04b, Xu08, XSL09, YZ07, YYT05, ZR08, ZKY05, ZL09, ZJ09, ZFM08, ZHSS09].
Incorporating [BHR04, HKO07]. **Incorporation** [DM03, Cha07b, HS07b].
Increasing [AT08]. **Increasingly** [BS00a, ZJS08]. **Incremental** [DB00].
indefinite [Had05, RS05, RS09a]. **Independent** [BSB01, CCJ07, CN05, CJK+03, CSMH05, Lap04, LTE07, SGFL09, YBZ04, Yin06]. **Index**
[Ano00s, Ano00t, Ano00u, Ano00v, Ano00w, Ano00x, Ano00y, Ano00z, Ano00-27, Ano00-28, Ano01s, Ano01t, Ano01u, Ano01v, Ano01w, Ano01x, Ano01y, Ano01z, Ano01-27, Ano01-28, Ano02s, Ano02t, Ano02u, Ano02v, Ano02w, Ano02x, Ano02y, Ano02z, Ano02-27, Ano02-28, Ano03-27, Ano03-28, Ano03-29, Ano03-30, Ano03-31, Ano03-32, Ano03-33, Ano03-34, Ano03-35, Ano04-28, Ano04-29, Ano04-30, Ano04-31, Ano04-32, Ano04-33, Ano04-34, Ano04-35, Ano04-36, Ano05-29, Ano05-30, Ano05-31, Ano05-32, Ano05-33, Ano05-34, Ano05-35, Ano05-36, Ano05-37, Ano06-28, Ano06-29, Ano06-30, Ano06-31, Ano06-32, Ano06-33, Ano06-34, Ano06-35, Ano06-36, Ano07-33, Ano07-34, VSG05]. **index-1** [VSG05]. **Indicator**
[CHR01, KKP02, BAMD07, CR05, Khe04]. **indicators** [ZQ09]. **Indirect**
[KS02a, WK04]. **Induced** [POS00, ABLS05, BCDW06, DL03b, MM07, RV09, SZC09, SCRL08, VVS08, YT07]. **Induction**
[CBB01, FLB03, GFR09, IDD04]. **inelastic** [SM05]. **Inert** [dSAK00]. **Inertia**
[GS02, JP03]. **inertial** [KMSH08, PK07]. **inertio** [Kas07]. **inertio-gravity**
[Kas07]. **inexact** [GG09b, HC05]. **inextensible** [VGZB09]. **inference**
[MN09b]. **inferior** [Boy06, WZ07]. **Infiltration** [JWSC00, JW02, JW03].
infinite [BRB03, GVT01, Mil08, ST04, zSW06, zS06, VCT07]. **Inflow**
[LP06b, FE04, GW06, KSJ03, Lar09, MJ07, SAK05]. **inflow/outflow**
[SAK05]. **Influence** [BT07a, NW07, RB09b, Wal03]. **information**
[HMA05, MY07, Ram03]. **Inherently** [BS00d]. **inhomogeneities**
[AV03, TJ09]. **Inhomogeneous** [FS00a, FS00b, HHCL01, LMSV00, OS01, BH04, CJSS08, DBF08, GGOB04, HLFB07, Lar07, SF03, YHCD05, ZWS06].
Initial [Kas07, KJ01, AMXL09, BHL07, BS05, CL08a, FF03, RMGK04, SN06, Tem06, TDV06]. **initial-boundary** [FF03, SN06]. **Initial-value**
[Kas07, BS05]. **initio** [GM06, SLG+03]. **Injection**

[CVB00, FKV08, dSHHM05]. **ink** [YSS05]. **inner** [Gel06]. **inorganic** [MWG+06]. **input** [GZ08]. **inputs** [DI09]. **insect** [Liu09a]. **insoluble** [GT09b, JL04a, LTH08]. **Instabilities** [PD01, KP08, LL08b, MC09, MV06, NLT08, Pri08]. **Instability** [FBFF00, HGB+03, LS02b, Lio00, MT01, Mon00, CL07b, CGM07, FS06, KTD03, sKKRH03, LSD07, LS08, Sus06, TM05]. **Instructions** [Ano03q, Ano03r, Ano03s, Ano03t, Ano03u, Ano03v, Ano03w, Ano03x, Ano04q, Ano04r, Ano04s, Ano04t, Ano04u, Ano04v, Ano04w, Ano04x, Ano04y, Ano05t, Ano05u, Ano05v, Ano05w, Ano05x, Ano05y, Ano05z, Ano05-27, Ano05-28, Ano06t, Ano06u, Ano06v, Ano06w, Ano06x, Ano06y, Ano06z, Ano06-27, Ano07z]. **instrument** [FHJK09]. **integrable** [CHL06a, CL08a]. **Integral** [AGH00, CHL06a, HO08a, Hel09b, HLS01, Mai01, Stu01, SG03b, AvdB04, AD03, BO04, Bot06, BT09, BEPT09, DBF08, EG08, GGS09, Gla05, GPVB07, Gui03, Hof04, HLX06, JA08, JR03, JR04, LN09, MR05, SB06c, Ten03, TC09a, TdAAP08, VGZB09, WXG07, XSG04, XSG08, YBZ06, YH07a, YLA08]. **Integral-differential** [SG03b]. **Integrals** [GM01c, Saf00, Saf02, SS01b, BLL03, GvH06, MG07a, MT04, SB06a, Wen07, Wen09]. **integrate** [CSC+08]. **Integrated** [Liu09a, ZRR00, Xia04, XAI06]. **integrating** [JBF07, Kro05, SK06]. **Integration** [BKR+01, BCVK02, HF01, LBV01, Lou00, MCCT02, PWW00, San01, SDD07, WDM01, Bal08, BSW05, CP03a, COR08, CSML06, DEHL06, FG06, HBHS09, JMC03, KEB+07, KCMM03, KLM07, Low04, MRRS05, MELD08, MG07b, MT04, MG07c, MDM03, NWZL08, OS04, OK06c, PH09, RBSL06, RMGK04, RSO04, SV07, SHPC09, Tok06b, VVM05, WG08, Yeh07, dSM05, vZdBB07]. **integrations** [ZHSS09]. **Integrator** [LR01a, KSHS08]. **Integrators** [IKS01, BIS07, FDL08, MGS09, QM03, SW08b]. **Integro** [HR01, Chu09, IDD04, SKW05, VVS08]. **Integro-differential** [HR01, Chu09, IDD04, SKW05]. **integro-moment** [VVS08]. **intended** [DDFT09]. **interacting** [AGW07, DDD05, SKW05, YB06]. **Interaction** [Pir02, Sur05, ZD00, BEE06, BQQ09, BGS08, CDDH07, CWL08, FM04, FG07, GHB03, GGCC09, HK04b, HAI09, KYK07, LDL+09, LMZ+08, LZH+07, MMS04, Pap08, QFR04, SK05, SM06b, TZ07b, XCY06, XW06, YM07, YF09, ZD05, vLAvdV06, vZdBB07]. **Interactions** [Han01, LTD07, VR02, AK06a, AMP09, BL08, BBW06, CC05, Eld08a, FT09, GH02, KM08b, LWP+09, LJK09, LKMU05, Mar06, MSP+06, SPT05, SL07a, TS04, YS09, Yu05b]. **Interconnects** [AIRY01, AIR03]. **interdisciplinary** [Ler06]. **Interface** [AMSZ07, ČPT01, CBI+04, DDS09, EFFM02, GW01, LS02b, LL01b, PL01, RM01b, SW00, SAM05, TC02, UMRK01, Wu01, YSC01, AS07, AMS04, Ber04, BR09b, BN09, BW07, CET09, CA06, CDDH07, CS08a, CXZ09, CS07c, CB09, DR06, DDM07, DIL03, DP09, DSS07, FS04, FGS09, FCT07, GMD07, GCNB07, GAC+09, Her05, HK04b, HKAH06, HAI09, JJGL06, JJGL07, Kim05, KPP07, KPP09, LLP07, LKP06, LZ09b, LJS08, LF05, LKY03, LKMU05, LHGF04, MKLU05, MDB+08, NT07,

NLT08, OSK09, QS07, QLS09, RMB07, RRV06, SGFL09, SYC09, SS07b, SDT08, SB07, SSH+07, TLL+08, TLK09, TU04, XW06, Xu08, YU05a, YJL+06, YS09, YZW07, YW07, ZL08a, Zho07, ZW06, ZZFW06, vEB05]. **interface-sharpening** [CET09]. **interface-tracking** [BR09b]. **Interfaces** [ACK02, Gla01, SZ00, Str00, Str01a, TK02, AS03b, AMS03, BS08b, BL09b, CD03, DS08, GLL03, Gre04, Hel05, HL05, HST09, Jia07, JY08, Kro02, LL07, LP04b, ML05, OK06a, PP04, Sam09, SPB09, SS08, TLK09, TT09, UTBV03, XD07, YJ06, YZW07, ZW04]. **Interfacial** [Dim07, Poz01a, THL06, BB04a, CL03b, Fan08, FCD+06, HW08, JL04a, KYLB07, Kro01, LTH08, MT08, NLT08, Pop09, Tan08, WB09a, XLLZ06, YZF+06]. **Interfacing** [FK09a]. **intergranular** [AIR03]. **interior** [Bor07, GLLN07, GLLN09, HH08, ML05, Mil08, Sha05]. **interlocking** [SK07b]. **intermolecular** [SB09]. **Internal** [HLKS00, BBC+06, Hew03, HK04c]. **Interparticle** [PM02]. **Interpolants** [GW01]. **interpolated** [IAT08]. **Interpolating** [FH03, CGSR08, HL04]. **Interpolation** [BR01, GC02a, Gui02, LSV09, Par02, TK00, YXU01, BP06, CP04a, CL08c, CLS09b, MS03, SZ05, TB09, TW03, UYK+04, WG08, WG06, ZW06]. **Interpolation-free** [LSV09]. **Intersecting** [RMO00]. **intersections** [LJSM08]. **Interval** [JMK01, BRB03, MK07]. **intravascular** [ZEA06]. **Introducing** [BBR01]. **Introduction** [Bra04]. **inundation** [Geo08]. **Invariant** [BU02, KE09, vBK03]. **invasion** [SL07c]. **Inverse** [BHL07, Bor00, CSV00, IFZ01, LR01b, TK02, AvdB04, BL09a, CT04, CBGI09, CDR09, GKL03, HO08a, Hoh06, JS07, KGJ05, KNH05, Lee07a, LAKD08, MNR07, MN09b, NLT07, VP09b, YYF09, ZG08]. **Inversion** [JZ08, Mac00, CSMH05, DD05, HPS06a, HS07a, Kry04, PSH+08, RR07]. **inversions** [Tol08]. **Investigation** [APQ02, BCZ04, MP03, CD04, CET09, KY08, LC06a, NTB07, PSCQ03]. **investigations** [TB04]. **Inviscid** [CKR00, CKR01, VD02, Xu01b, vdVvdV02, BDHN09, BP04b, BB08b, CLB08, CTT08, DF04, DS09b, FCT07, GXW07, GGF03, Kro02, NOG08b, NJX08a, NS04, SDT08, Xia04, Pro05]. **Involving** [KJ01, OS01, LKP06, MS08a, MR07a, ND04, SC09a]. **Ion** [OL01, ED07, GLS03, GIA+07, GBB+06, Hum05, SDD07]. **ionic** [BS05, DC07, XDC09]. **ionization** [RHPN09]. **ionized** [Kwo08, MD04]. **ionizing** [AM05]. **ions** [BBF+08, Kwo08, XJ07]. **Irregular** [CL00a, Cal02, GFCK02, GC02a, LFK00, MCJ01, TS02, vdSE00, BF08, BP07, CGRGV+04, HWW07, ILL09, JM05, LF05, MG07c, SROCdPFF05, SS08, VTT08]. **irregularities** [HMM08]. **irrotational** [CL06a]. **ischemic** [NLT07]. **Isentropic** [LKX04, HH06]. **Ising** [FGOV00, FV01, PVPS09]. **Island** [Cho00]. **isochoric** [XMP07]. **ISOD** [RBH03]. **isolated** [KK03a]. **isopycnal** [WAH09]. **isosurfacing** [Min03]. **isothermal** [DHOT09, Mig07]. **Isotope** [OL01]. **Isotropic** [BC02b, CL08c, Kum04a, LP02, KMSH08, YSO07, YGL05]. **Isotropy** [Hua01b, ZSC07]. **isovalue** [RBH03]. **isovalue-oriented** [RBH03]. **ISPH**

[XSL09]. **issue** [Ano07-27, Ano07-28, Ano07-29, Ano07-30, Ano07-31, Ano08-35, Ano08-36, Ano08-37, Ano08-38, Ano08-39, Ano08-40, Ano08-41, Ano08-42, Ano08-43, Ano08-44, Ano08-45, Ano08-46, Ano08-47, Ano08-48, Ano08-49, Ano09-49, Ano09-50, Ano09-51, Ano09-52, Ano09-53, Ano09-54, Ano09-55, Ano09-56, Ano09-57, Ano09-58, Ano09-59, Ano09-60, Ano09-61, Ano09-62, Ano09-63, Ano09-64, Ano09-65, Ano09-66, Ano09-67, Ano09-68, Ano09-69, Ano09-70, Ano09-71, Ano09-72, HJJ09]. **Issues** [Ano00q, Ano00r, Hun01, FL06, Thu08b, WZL09a, WZL09b]. **iterate** [AMXL09]. **Iterated** [SS09c, Wel07]. **Iteration** [Boy02b, Yan08, Küm04b, LY07a, LY07b, TB09, ZSTC06]. **iterations** [BEPT09, MYW07, Ovt08, YLD09]. **Iterative** [AvdB04, BS00e, GZ01, HBHJ08, Man02, RW00, Vos06, ZZ01, BFG08, CL03a, CL08d, FWP09, GV06, Had05, KKS05, LT05, LH08b, Mil04, Mil08, OMK09, Thö04, Tok06b, TDV06, WW04, Yon01, YHCD05]. **iterative-perturbation** [YHCD05]. **IV** [WZL04].

J [ABRR09b, CL08b, DD03a, HMS08b, HY11, HLWW06, JJGL07, Lau06, LM03a, MKM04, MN17, Mil07, SM09b, SCC+03a, WZL09b, dTWD09]. **Jacobi** [BPS03, BL03, CQO04, CP06b, CC07, CS07b, CY05, CL00b, FF02, Had05, KOQ04, KOQ08, KR02, KT00b, QS05, SR09a, TTZ03]. **Jacobian** [CBKM00b, CZ09, CSV00, KK04, KMS02]. **Jacobian-Free** [CBKM00b, CZ09, KK04]. **Jacobians** [Chu09]. **jammed** [DST07a]. **jamming** [DTSC04]. **Jet** [ZYKW01, DB04, LLC06, YFLS06, YSS05]. **jets** [Cha09]. **jetting** [YSS07]. **Joint** [JPMC01, AJ09, RJ06]. **Joule** [DMR09]. **jump** [MDJS07, RC06]. **jumping** [LHZW05]. **jumps** [RAB07]. **junction** [LMH07]. **June** [Tol02a].

Kac [BLL03, PWW00]. **Kalman** [IKL+08, KFH+04, KFIG06, LX09]. **Kantorovich** [DCF+08]. **Karhunen** [BP04a, ST06, ZL04]. **Kármán** [YKG04]. **KdV** [Dur08]. **Keller** [PS07a]. **Kelvin** [CPG04, KTD03, Pri08]. **kernel** [DLD+06, MRRS05, SL06, YBZ04, Yin06, YH07a]. **kernel-free** [YH07a]. **kernel-independent** [YBZ04]. **kernels** [CGSR08, GvH06, HX05, Lau04, TMND07, WG06]. **Kerr** [de 00]. **Kershaw** [FM08]. **Kind** [GST02, Gui03, JR03, JR04]. **Kinds** [Boy02a]. **Kinematic** [TFD06, BK07, LLZ07, Pon05, XSG04, XSG08]. **kinematics** [BST03, LTC07, Liu09a]. **Kinetic** [CKR00, CKR01, CL01a, CHBS04, Del02, DQ04, FL06, HK04c, KK00b, KQW03a, Lap02, LM08a, LX00, Ohw02, San01, TX00, TRL01, Xu01b, Xu01c, Xu01a, Xu02b, ACGV07, BBHM09, CLL07a, CBC09, CV06, CP03c, CELS07, CJ09, CDL04, CDL05, DJM05, DDM07, ELVE07, Fox09, GC06, GBB+06, HM09, HS07b, JX07, KK05a, KQW03b, LGKP07, LZ04, LF06, LZ09c, Liu08, MMKP08, MSJ07, NJX08b, NJX09, OX04, OK04, OF06, QW05, QA09, RCT07, RSM05, RS06b, SSE03, Sch08, SHY07, SY08, SA06, SS06b, SC09b, SK07b, TDWY08, TXCD07, TKH09, VK05b, WXG07, XH03, XMT05, XHC08, YHSX07, ZSB+08]. **kinetic-fluid**

[CDL05, DDM07]. **kinetic-hydrodynamic** [CELS07]. **kinetic/fluid** [CDL04]. **Kinetics** [MOvL00, SD00, BHL+04, LGP09, Lap03]. **kinetics-based** [Lap03]. **Kirchhoff** [GPL05]. **KIVA** [TT06c]. **KIVA-4** [TT06c]. **Klein** [BY07, HZ08, HJL09, RBK09]. **kMC** [RMGK04]. **knot** [JC06a]. **knots** [MR03]. **known** [KZWY09, Lab09]. **Knudsen** [KPB08]. **Korteweg** [CkM07, LGK06, LY06]. **Krig** [GSK06]. **Krylov** [BB07a, BT02, BEPT09, CBKM00b, CS08a, CZ09, FWP09, HJM07, JH08, KM00, KK04, MYW07, MKR00, NOG08b, SNGAS04]. **Krylov-accelerated** [CS08a]. **Krylov-Based** [BT02]. **Krylov-subspace** [BEPT09]. **Kuramoto** [CFP08]. **Kutta** [HyLL07, ZP06, AHNS09, Bal08, BP09, BSB01, CFR04, Dri02, HL06b, KCGH07, KHV01, KWD07, KDW08, LX07b, QS04, QKS06, QLK07, Rei00, STR07b, Tan05a, ZQSD08, ZQ09].

LA-UR-03-3852 [Har04]. **laboratory** [BvdHKG07, Har04]. **Lacunae** [QT08, Tsy04]. **lacunae-based** [Tsy04]. **Laden** [WK01a, JD09]. **lag** [MKKY06]. **Lagrange** [BG05a, DDK06, DLMK04, Gir00, HB02, SPT05, VMN07, ZSP08]. **Lagrange-distributed** [WZ07, Boy06]. **Lagrangian** [NTYT02, Tol02a, AA07, AH08, AEP04, ALGM01, AHMS03, BG07, BBC+06, BS08b, BS03a, BLG+08, BR09b, Bon00, CRB00, CL06a, CFF07, CDDL09, CS07a, CJR04, FF02, FP08a, Fed02, GT09a, GT09b, GXW07, GHB03, GPF03, GCCD07, GBB+06, GD05, HK05, HK08c, HPZ01, IX07, Jao07, KMSH08, KMS02, LS03, LHZW05, LCS09, LY04, LS05b, LC06b, LSW08, LRS09, Mai09b, Mai09a, MN09a, MGGH00, MP08, Mea04, ML01b, MDM03, NSS03, NTYT01, OF02, RB05, RBS06, RWWS07, RCB05, SM09a, Str00, Str01a, TOY09, Tol02b, TJLT08, XY01, XK01, YSO07, YA05, YFBH07, ZWS07]. **Laguerre** [BS08a, BRB03]. **Laminar** [BCVK02, VBL03, BC08, BEG03, CFL+03, FGP08, GLLX08, LLC06, MR04, MAL09, RFVP09]. **Laminates** [Wee02]. **Lanczos** [CKLS05, Bor00, BS05, JHZ+09, SHS08]. **Lanczos-type** [JHZ+09]. **Land** [GKL00, KJ09b]. **Landau** [BCG09, BC02b, DDG02, DDFT09, FP02, HZ02, Lem00, PRT00, RSS09, ZZ08, dSM05]. **Lane** [PSD09]. **Langevin** [BLW04, DEHL06]. **LANS** [HHPW08, PHW08]. **LANS-** [HHPW08, PHW08]. **Laplace** [GF05a, HZ07a, HSQ03, HW05, Kry04, SSN09, SY09b]. **Laplacian** [AHPT07, PAD07, Pon05]. **Large** [ATV01, BADG00, Ben02, Bor00, DF00a, ELD08b, FLG01, FG02, Gui02, KS02b, KK00a, KDC05, LLQ+02, ME09, PPC00, TSB01, TR02a, ZWL02, AHNS09, AL06, AD04, BPS03, BBB08, BS03b, BSW05, BTWGvBW07, CF06a, CGDT09, Cho05, CM03, CSKD05, DT03, DSS07, DS09a, FDD09a, FDD09b, FH03, FKK08, Gra06a, Gra06b, HBLD07, Heu03, HP04b, IOTK04, KSJ03, LZL03, LVL05, LP06b, Liu09c, LDV08, LJ07, MCM04, MLM09, MGS07, MDM03, MBP07, MMPB07, MV08, MHdB07, NLF03, PDHP07, PYC04, PM07, RMG+09, SSW+07, Soc03, SFMP06, TSB03, TMD07, Tok06b, TC09b, VK09, VTM+08, XLP05, YZ07, YB06, ZSC06].

large-amplitude [CF06a]. **Large-Eddy** [KK00a, ME09, PPC00, TSB01, KDC05, BBB08, CM03, CSKD05, DS09a, FDD09a, FDD09b, HBLD07, LDV08, MCM04, MLM09, MGS07, MBP07, MMPB07, PDHP07, SSW+07, TSB03, YB06]. **Large-Scale** [ATV01, BADG00, KS02b, ZWL02, BSW05, BTWGvBW07]. **large-step** [AHNS09]. **Large-Time-Step** [Gui02]. **Large-Wave** [DF00a]. **Laser** [DGH02, DNS08, DDGS09, GHB03, HDBW05, KSHS08, LDL+09, Sau04]. **laser-plasma** [GHB03, KSHS08, LDL+09]. **late** [CL07b]. **lateral** [KJ09b]. **Lattice** [BTC05, BLW01, BdLL01, Del02, DC02, FH00a, FH00b, FSM+01, GS03b, Gua00, GSW00, HDC02, HHL00, IYI+02, LL03a, LLQ+02, MSYL00, MHS02, MAL09, PR00, RMSB09, SS05c, Sun00, VLB09, XH03, vdSE00, AST09, AL08, ABZ+08, BKS07, BYS08, CA06, Del03b, DCK08, FG05, FM04, GM04, Gos04, GM06, HvHHS05, HNGB04, HHC08, ISNY05, IOTK04, IF09, JKL05, KY08, KMV03, KPB08, LLP07, LL03b, LL05, LLC06, LT09b, MRS09, MR07c, NCS03, PL09b, PSCQ03, PSC04, PSC+06, PA07b, PPB09, RSM05, SCT09, SPT05, SLC07, SS03b, Sof09, TBJ+09, VCG03, WWC07, WS09, YZ07, YGL05, YF09, ZK05, ZSC07, ZSC06, ZTPM05]. **Lattice-BGK** [FH00a]. **Lattice-Boltzmann** [HHL00, BKS07, PA07b]. **Lattices** [vdSE00, CLL07a]. **Law** [FGG01, VPA02, De 04, ÉGP09, FS06, GD07a, LLZ07, MY06b, Mil06, Mil07]. **Laws** [Asl01, BJ00, CDKP00, CRD02, FMO00, GC01, KT00a, LL00, Noe00, Sti02, TS01, Wan02, WL02, YL01, AKLMP09, BAFL09, BBCT09, BCCD08, BP03, CLG07, Cap08a, Cap08b, CT08a, CP08, CGKM06, CD07, CkM07, DET08, Edw06, FS09, GV07, Gui05, Hub07, JR09, JTL09, KI05, LL03c, LVW06b, ML08, Mil04, PDL09, RLZ03, RCD05, SW04b, SYG06, SWL06, SZLW06, SR09b, Tak06, TT04, TT05b, TT06a, TT06b, THS07, VCZS04, WZL04, WG09, vDZ06]. **Lax** [KOQ04, LCS09]. **Layer** [DC01, Hu01, Hu05, Str01b, Vay00, Vay02, AK06b, AC09, BHNPR07, CGRGV+04, CLL+07b, GKD09, HO08b, HLL08, MT07a, NK08, RJ04, ST04, Tau07, Zhe07, ZT03]. **Layered** [Hig02, AC05, And09, BFT09, Hig05, IQT08, SCT06]. **Layers** [Bal02, ELW01, GZ01, PPC00, TC01a, BFJ03, DH07, Doh09, FE04, GGOB04, LP06b, Nat06, Rah04, SJHM09, SP05b, ZGG03]. **LBB** [AGP01, CHPR09]. **LBE** [GLLX08]. **LBM** [SL07a]. **LDAF** [WZ07, Boy06]. **leaf** [Dic08]. **leaky** [ZK05]. **leaping** [BCK09, RE07]. **learning** [Kou07]. **Least** [Cap09, PG02b, AMSZ07, BT05, BT06, BP04a, CSO09, DI09, GS03a, GNNB08, HV03, HK08a, HMMR04, HLMM07, HdGKG08, HY09, HY11, KH09, NCS03, PR03, PR04b, Pon06, Pon07a, Pon07b, PR06, SL07b, VB09, ZKY05]. **Least-Square** [Cap09]. **Least-Squares** [PG02b, AMSZ07, BT05, BT06, BP04a, DI09, HV03, HK08a, HLMM07, HdGKG08, HY09, HY11, KH09, PR03, PR04b, Pon06, Pon07a, Pon07b, PR06, ZKY05]. **Lebesgue** [Hei05]. **Legendre** [AQ00, APQ03, Boy03, Boy04, CDI09, KOQ08, KT03, PSD09, SS01a]. **Legendre-pseudospectral** [Boy03]. **Legendre-transform-based** [KOQ08]. **length** [AKP07, JG09]. **Level** [Asl01, BCMO01, CT04, CBGI09, CMK+01,

CBMO02, Cho00, EFFM02, HMS08b, Hig02, KAIN01, KLvBvL02, LLdlP+00, MS08a, OF01, OS01, OCK+02, PS01, SW00, Set01, SJ02, SP00, TMB07, AS03b, AS05b, AJT04, ÁDIM09, AA06, AHMS03, BHR04, BHSV07, COQ06, CM06, Che07, CSL08, CCT05, CQRW05, CC08b, DMBS05, DMP08, DL03b, EHST03, EHS+08, ETT05, FSS03, GGS09, GCNB07, Hab04, HMS08a, HKO07, Her05, Her08, HK05, Hig05, JVVS07, JCT07, KH07, LW07, LW09, Liu09c, LTWW07, LLC+08, LTL+09, LTM09, ML06a, MRC06, MR06a, MGCR07, Min04, MG07c, MG07d, MV06, NJLA06, NLT07, NT07, OK05, OKZ07, PHKF06, QL04, RR07, SS06a, SYC09, SAKDJ05, Sme06, Spe05, Sus03, TZ06, TZ07a, TZ07b, TBJ+09, Tow07, TU04, WLKW07, WSTW09, WYS09, Wen09, XLLZ06, YJL+06, YSS05, ZGK09, ZLAC05, ZL08b]. **level** [vdDA06]. **Level-Set** [Asl01, CBMO02, Cho00, KLvBvL02, PS01, CBGI09, AJT04, ÁDIM09, AA06, Hab04, KH07, MG07c, RR07, Spe05, XLLZ06, YJL+06, YS09, ZLAC05]. **Level-Set-Based** [LLdlP+00]. **level-set/volume-of-fluid** [YJL+06]. **levitation** [IM05]. **Lévy** [LLTA07, PC06a, Pav07]. **Li** [GIA+07, MCP03, GIA+08]. **Li-ion** [GIA+07]. **library** [SWB+06]. **lid** [AK05]. **lid-driven** [AK05]. **Lie** [San03]. **Lifshitz** [dSM05]. **lifting** [KRT+09, WG09]. **Light** [KL06, SS01b, deM02, BMK+06, BBK06, GGRS08, JD04]. **Light-Cone** [SS01b]. **Light-Emitting** [deM02]. **Lighthill** [ZSWW03]. **LIGKA** [LGKP07]. **like** [DLS+00, HO06, LNXNTX09, MEG02, Mil06, Mil07, PL09a, SB06a]. **likelihood** [Sti05]. **Limit** [BKR+01, DW00, Asl04b, BPM06, Boy05b, CWL08, CS04, CDV07, DP08, FPK08, JLOT05b, JLOT05a, LW09, Lur07, PSZ09, SD05a]. **limit-cycle** [BPM06]. **limitations** [CP06a]. **limited** [BDS07, CTT08, GD06a, LXM09, LLGL07, Ols07]. **Limiter** [BSB01, RM01a, CT09, CS08c, KT04, LBL07, MOG09]. **Limiters** [BL01, Kri07, Kuz06, NJX08a, QS04, Sof09, ZQSD08]. **limiting** [Bet08, KK05d, ML08, YKK08]. **Limits** [MHS02, Del03b]. **Line** [Gui02, POS00, RRL01, Khe04, MBS03, VP09b, ZGK09]. **Linear** [AL01, Ben02, BBCT09, CP00, KKGL01, Mav02, MYW07, NC01, QRHD00, RC00, SZ00, TS02, WC01, AMR06, AC09, BAYZ08, Bal08, BAR08, BDRT09, BM05, BB07b, BdCB09, BDCG03, BSP06, BCI+08, CFS09, Cap08c, Cap09, CWJ07, Cha07b, CN05, CP06b, CP06c, CFJ09, DK06, Dem04, DTSC04, DC08, DK07, GZ08, GR04, Hau08a, Hau08b, HK08c, HR07, JHZ+09, KT05, Lab09, LGKP07, LZL03, LM08b, MPD08, MGS09, MJ06, NPH09, Ngu07, NPC09a, RH05, Sam09, SDM04, SLG+03, Thö04, TT05a, TT05b, UL06, VCT07, WT07b, XLS09a, YJ06, YKG04, YH07b, AGT02]. **linear-scaling** [SLG+03]. **linearity** [KSW03]. **linearity-and-bound-preserving** [KSW03]. **Linearization** [GV02, Hun01, Kuz09]. **Linearized** [Hu01, MT03, MDR07, SM06a, BKST09, Hu05, Nat06, PGN08, Rah04, SB09]. **linearly** [BAR08, CJR04, Jao07, Tok06a]. **linearly-perturbed**

[CJR04, Jao07]. **Lines** [DK02a, KKGL01, AINR03, Car09, JH08, Spe05]. **Lineshape** [KHV01]. **Link** [NTO+07]. **linked** [KM08a]. **Linux** [CD04]. **Liouville** [JW06, JY08]. **lipid** [FK06, MK08a]. **Liquid** [DSS00, EKK02, JLCD01, LS02b, CPR05, Cha09, Chr03, CB09, DDK06, GGS09, GKV09, HP04a, HL07c, IM05, LMV04, LS08, LL06a, LR07, LLZ07, LL07, LL08a, RGS04, VGL+07]. **liquid-liquid** [CB09]. **Liquid-Vapor** [JLCD01]. **Liquids** [KS02b, HSL08]. **list** [DTS05a, DTS05b]. **lithography** [BBK06]. **Load** [DPR00, JJGL06, JJGL07, MG05a]. **Loading** [CVB00, GVT01, KFV07, Li08b]. **LOBPCG** [HL06a]. **Local** [Alb00, BC02a, BS09b, DI02, GTD01, JL02, LSY04, MTH08, Min04, MHS01, MV08, OV00, OMG02, QS02, RC09b, SC08a, VDM+02, VC00, XXS07, XS05b, YZW05, AMR06, BC05, BBD04, BF08, BG05b, CBH03, CFR08, CLS09b, DSM09b, DGRS08, HMOG08, HZ08, HAD06, ISNY05, JW06, KB04, KKO04, Lap04, LSA06, LSJA05, LY06, LGM08, Ma05, MCGV04, MPFC08, Pav07, PVR07, SLG+03, SPLM09, SRX07, SR09b, Tsu06, UBRT07, UPKN09, YE07, ZHSS09, dTDI+07]. **local-orbital** [SLG+03]. **Localization** [ZGG03, Gra06a, HNF07, KZWY09, Lar09, ST03b, TB09]. **Localized** [KL08, DDH05, DLD08, YA05]. **Locally** [BS08b, CLS04, FWW04, HEML00, Str07a, AT08, FHW07, OK07b, TZHT04]. **locally-conformal** [OK07b]. **Locally-corrected** [Str07a]. **locally-refined** [FHW07]. **Locating** [TK02, SS09b]. **location** [HSZ04]. **locking** [LSJA05, MP07a]. **locking-free** [LSJA05]. **locomotion** [HSW07]. **Loève** [BP04a, ST06, ZL04]. **Logarithmic** [Mai01]. **logging** [GH08b]. **Long** [FPC+00, Wee02, ZSW03, CWL08, FT09, HPS+06b, LLL07, SK04a]. **Long-Range** [FPC+00, FT09]. **long-term** [SK04a]. **Long-time** [ZSW03, LLL07]. **long-wave** [CWL08]. **Loop** [SS01b, GPL05]. **loosely** [GGCC09]. **loosely-coupled-type** [GGCC09]. **Lorentz** [Tót02]. **Lorenz** [FVE04]. **losses** [HR08]. **lossless** [LKD04, Rem06]. **lossy** [LZC04]. **Low** [BKR+01, BISS01, FS01, FH00b, Nic00, POS00, RV00, SC01, WPM02a, Ano04z, AG09, BCDW06, BDHN09, BDR+04, BBMB07, BO09, BB04b, BEG03, BB08b, CLB08, Cha09, DH04, Del07, DBBP08, DKS+03, DST07b, EG08, HH07c, HK04c, Kok09, LG03a, Lee07b, sLwG08, LM08c, LQ06, MEKS03, MDR07, NMM+07, NMH+07, OTCM08, OVG07, PDHP07, RVDM09, RB09b, SDGX07, SM06a, SMS04, Soc03, SFMP06, TSG+06, TMD+08, VGCN05, XH03, XLP05, YS07a]. **low-cost** [LQ06]. **low-diffusion** [MEKS03]. **Low-Dimensional** [RV00, VGCN05]. **low-dispersion** [Kok09]. **Low-Energy** [SC01]. **Low-Energy-Density** [BKR+01]. **low-frequency** [BCDW06, DH04]. **Low-Mach** [Nic00, LG03a, RVDM09, XH03]. **Low-Order** [BISS01, AG09]. **Low-Speed** [FS01, SMS04]. **low-variance** [HH07c]. **lower** [MM09]. **Lowest** [Mit00, Lab09]. **lowest-order** [Lab09]. **LU** [LZL03]. **lubrication** [DM03]. **Luo** [TK04]. **LWS** [DF00a].

M [LM03a]. **MAC** [IQ08, LW01]. **MacCormack** [HT00b, HT00a, HF01]. **MacCormack-Type** [HT00b, HT00a]. **Mach**

[NVD05, VSW06, Ano04z, BDHN09, BDR+04, BTW03, BEG03, CLB08, Del07, DBBP08, DST07b, FH00b, KKM08, LG03a, Lee07b, sLwG08, LM08c, MDR07, NVD07, Nic00, RVDM09, RB09b, SBGK00, SM06a, SSD00, SFMP06, TSG+06, TMD+08, WPM02a, XH03, XLP05]. **Mach-uniform** [VSW06, NVD07]. **Mach-uniformity** [NVD05]. **machine** [Kou07]. **macro** [BEA09, FT06]. **macromolecular** [Lap03]. **macromolecular-crystal** [Lap03]. **macromolecules** [IH04]. **macroscopic** [GMAj09, HA06, ZRS06]. **Magic** [MT01]. **Magnetic** [Del01, GG00, SHWW00, AvdB04, Bal09, BCDW06, BCM+07, DDSV09, EPW08, HR08, IM05, IDD04, JOS06, KM08b, KB04, LKD04, LCG07, MSP+06, NMM+07, NMH+07, PH09, SDGX07, SHS08, SS04]. **Magnetically** [OL01]. **magnetised** [GYKL05, GLT07, GL09b, SG06]. **magnetization** [dSMF09]. **magnetized** [GGOB04, Mot08, PPCW06, UPKN09, VVM05, VTC+07, XCRX08]. **magneto** [Li05, Li08a, VOD08]. **magneto-hydrodynamic** [Li08a]. **magneto-hydrodynamics** [Li05]. **magneto-static** [VOD08]. **magnetogasdynamics** [Gom08]. **magnetohydro** [LW04]. **magnetohydro-dynamics** [LW04]. **Magnetohydrodynamic** [DCV+01, BT07a, FJ09, GLN06, JBF07, KLM05, LTC07, Liv07, MV06, OPML07, ODCK07, Ser09, SK07b, dCNHSD07]. **Magnetohydrodynamics** [Bal01, Del02, GTD+02, Jan00, TX00, Tót00, Asl04b, Bal09, BRDM09, GLLN09, HT07, LFSS07, LD09a, LD04, MK05, NN09, PCP08, QW05, RSW06, SGG+04, Tor03, TMG08, Waa09, ZK06, Zie04, vDZ06]. **magnetorheological** [KM08b]. **Magnetotelluric** [HS07a]. **Maintaining** [PHKF06]. **maintenance** [GS09d]. **Management** [OK04, TS07, WGCR07]. **manifold** [GKE04, HE07]. **manifold-mapping** [HE07]. **manifolds** [BRC+09, BBK07, KG03, MSO04, RBL04, SK07a, VGCN05]. **mantle** [FKK08, KKS05]. **manufacturing** [SS08]. **Many** [ZD00, CLMRP08, FHLK05, LM08a]. **many-particle** [FHLK05]. **map** [Gui03, HW05, Hel09a, dFJS09]. **Mapped** [HAP05, BRB03]. **mapping** [HE07, LQX06, MSO04, ZL08a]. **Maps** [LTZ01, TB00a, BBK07, YLA08]. **Marangoni** [LS02b, TC02]. **Marching** [Set01, LG03b, LG04, YBS06]. **marker** [AMS04, CB09, RB05]. **markers** [AMS03]. **Markov** [CVE06, GL09a, MDJS07]. **MAS** [KHV01]. **masks** [BBK06]. **Mass** [Lio00, OF02, BYS08, BT05, DBS06, HLMM07, KH09, KJ09b, LLGL07, RC09a, YZF07, ZH04]. **mass-conserving** [DBS06]. **Massive** [DPRS01]. **Massively** [KP00, SLG+03, CHB09, HVAC09, KRT+09]. **MAST** [AT09]. **master** [HL07a, IM07, MK07]. **Matched** [Hu01, Hu05, Vay02, YZW07, BFJ03, BHNPR07, CLL+07b, DH07, Doh09, GKD09, GGOB04, HLL08, Nat06, OK07b, Rah04, RJ04, ST04, SP05b, YW07, Zhe07, ZW06, ZZFW06, dHRvdB07]. **matching** [Bor07, JJGL06, JJGL07, LVL05, NDT06, SB06c, ZW04]. **Material** [Bar02a, DDG02, ZZVM08, AS03b, AS07, APT09, BSKH07, BFT07, BG09, CD03, DS08, GA09, Khe04, LKY03, LBL04, MU09, Ols07, PP04, SGFL09,

SC09a, WG08, XD07, ZC09, ZW04, ZD08]. **material-order-independent** [SGFL09]. **Materials** [CL00b, CB02, EH02, GM01b, HLS01, OV00, RV00, BZ04, CDS04, CP04b, CP05, EPW08, GFS08, GL06, GMO04, YU05a, Zad08, ZB07]. **Mathematical** [Ano04z, BTFY01, CHM08, GS02, HM08, HSW07, RBT03, LD06, SMP09]. **matrices** [BPS03, BT07a, DBB06, WR09]. **Matrix** [Bor00, BS00e, Edw00, Lin01, PCS+09, PC02, SWTM01, Yon01, YMF01, Chu09, DMG04, HJFW04, HL04, Hau08a, Hau08b, HSZ04, LAKD08, LBS+04, LZH+07, PSH+08, SBA07, UL06, Wal03]. **matrix-free** [LZH+07]. **Maximum** [GG09b, Rom02, Abr06, Abr07, Abr09, KSS09, Sti05]. **Maxwell** [ACS00, ACLS03, BL04, BL09a, BLG+08, BHvdV06, BS06b, Bra08, CD03, CW03, CXZ09, CJ07, CLS04, CFP06, CFJ06, DR06, DD05, DDH01, DLP08, DF00b, DDFT09, Eli03, Eli07, FH03, GD07b, HH07a, Hag07, HK04a, HR08, HLO08, HW02, HJM+05, HGB+03, HMM07, LZC04, MCCT02, MPFC08, MOS+00, Nys02, ON08, PAD07, Rem06, RLB02, RRW05, RB02, SZB+07, SWZ03, SL07b, SA09, SP05b, Tsy04, VPMC04, WZ02, Wel07, XCZ02, XD07, YP01, ZW04, ZT07b, de 00]. **Maxwellian** [CVB00, GW06]. **MCC** [CN08]. **ME** [FWK08]. **mean** [CB07, DSM09b, Hu05]. **Means** [BM01a, BHR03, BHR06, Heu03, MG05a]. **Measure** [RS02]. **Measurement** [TG04, CP06a, MSB07a]. **measurements** [CSC+08, DGF09, HKS09]. **Measures** [OB06]. **mechanical** [DDD05, DP08, NTO+07]. **mechanical/molecular** [NTO+07]. **Mechanics** [Bar02a, BS01, BS00d, OP02, Bod06, BG05b, DF07, FDD07, GPL05, HLRZ06, Kou07, LNXNTX09, MK08a, Mil04]. **mechanism** [PK03]. **Mechanisms** [KLN+01, RRV01, LTWW07]. **Media** [CS01c, CS00, CGSS00, LMSV00, LLN00, WLE+00, ZF02, AT09, AZ06, BQQ09, Bar04, BFT09, BS06a, BH04, CD03, CJSS08, CPG04, CDE06, FWP09, GZ07a, GZ09, HJ09, IQT08, JLT06, KSH+06, KT06, KT07, LTZ03, LMS08, LH05b, LJ06, MZ08, Mar06, MJT06, MN06, MHI08, MP05, MGS09, NL08, PC06a, Rem06, TJLT08, XD07, YE05, YE07, YH07b, ZL04]. **mediated** [MSP+06]. **Medium** [CY00, BL09a, BW07, FG04, FG05, GS09a, Hoh06, KK03a, QLK07, RM07]. **MEL** [Wan05]. **Melt** [LS02b, ZGT06]. **melting** [Men04]. **melts** [HLFB07]. **membrane** [CKPW07, LWP+09, LS08, MK08a, MSP+06, TLL+08]. **membrane-mediated** [MSP+06]. **membranes** [DLW04, DLW06, FK06]. **memoir** [Bra04]. **memory** [HJFW04, LH05b, TS07]. **MEMS** [AA09, MK04b]. **MEP** [Rom07, TPR05]. **merging** [Hew03, QLS09]. **meridional** [TVMR03]. **MESFET** [GS06a, Rom02]. **Mesh** [Alb00, Bal01, BV05, BMR01, BMRS02, CH01, CBL01, DGH02, Dys01, FR02, Hua01a, Hua01b, ID04, LTZ01, LTZ02, LK09, MR00, MR02, MP07a, MGGH00, Mav02, OGV02, Per00, ZSP02, Zha02, AZB09, AFGM07, AEP04, BFC04a, BFC04b, BS03a, BL05, BCGR05, CR07, CGDT09, CJ04, CBH03, CBI+04, CHCOB09, CFJ06, DW09, Dwi08, FL06, FYH+06, FM06, HT07,

HZ07a, HS06, HS08a, HG03, HS03b, Hua05, HMR08, Hum05, ISNY05, JS05, KK09, KAA+07, KPP07, KE09, LC06a, LK07, LMX+08, LD09a, LB03a, LP04a, LL04b, LLOT06, LKO05, MJ09a, MC07b, MSB07b, NA08, NMH+07, Ni09, NLLE06, PSCB08, PDHP07, PL09b, PN03, PCP08, PL04, PC06b, QS07, QLS09, RA09, SWB+06, SY09a, SHP07, SRX07, TZHT04, TLK07, TTZ03, TFD06, TK04, Wal03, WT07a, WT07b, WLC+06, YMT+04, YMWM06]. **mesh** [YF09, YT07, ZJW06, ZJWC08, ZFM08, ZSC08, vDZ06, vZdBB07]. **mesh-based** [SHP07]. **mesh-dependent** [AZB09]. **mesh-free** [YMT+04]. **Mesh-Size** [Zha02]. **Meshes** [DLS+00, Han00, Her00, MVM02, ML01a, MG02, MP01b, MHS01, TS02, Vas00, VG02, WS01, WB01, ZYC02, AK06a, AS07, AB05b, AT05b, BES07, Ber06b, BM07, Cap08a, CKvT07, CDDL09, CBGI09, CSO09, CS06, CS07d, DHOT09, DMR09, DK07, DKTT07, DBTM08, DZ09b, FM08, FHW07, GL08, HO08a, HLO08, Her09, JJGL06, JJGL07, JMC03, KA05, KOQ08, KI05, KL08, KL04, LMS04, LSS06, LSSV07, LSV09, LNXNTX09, Mai09b, MB04, MY06b, MP05, NJX08b, PS07a, RAB07, RAD07, SPM03, SP06b, THD09, TAL09, VGS04, XLM07, YA05, YS07c, YS08, ZQSD08, dVGLM09]. **Meshfree** [ZWL02, CYS06, KYLB07, ZKY05]. **meshfree-Cartesian** [CYS06]. **meshing** [BGR08, DS05a, YZF+06]. **Meshkov** [LSD07]. **Meshless** [Ma05, BZ08, BSLN09, KJ09a, LSJA05, SB03, YYF09, YCL05]. **mesoscale** [GR08]. **Mesoscopic** [HKV01, Hor06, BL08, FK09a, HA06, ICO04, KMSH08]. **metabolism** [XDB09]. **metal** [AIR03, AINR03, MC06b, MLFG06]. **metallic** [ES03a, MC06b]. **metals** [GKV09, IM05]. **Method** [AKV00, Alb00, ACS00, AQ00, AP02, BR01, BC02a, BJ00, BJ02, Bar02a, BC01, BMR01, BS00c, BCE+09, BM01b, BE02, CFA01, CL00a, Cal02, CHR01, Car02, CWT00, CGP02, CMK+01, Cho00, Coe02, CPP02, CM00, Cor00, CB02, Dar00b, DV02, DPR00, DFT01, DGP00, Dri02, EH02, EKK02, ERT02, EFFM02, EAY01, Fed02, FBFF00, FP02, FR02, Fre00, FK02, GM01a, Gen01, GW02, GMB01, GHG01, GK01, GP00b, GBGM01, Gui02, Gut00, HHCL01, HLS02a, HMM02, Han00, HSK00, HDC02, HHL00, Her00, Hig02, HK02, HF01, HB02, HCG01, HA02, HEML00, HGM01, IYI+02, IFZ01, JC02, JLCD01, JTB02, Jan00, JK02, JM00, Kan02, KS02b, KB00, KK00a, KK00b, KAIN01, KC00, KKC01, KJ01, LP00, LLH02, LL00, Lay02, LKNG01, LRN+02, LL01a, LL01b, LK01, Lin01]. **Method** [LFK00, LS00, LMS02, LLQ+02, MR00, MR02, Mac01, MD02, Man02, MKM99, MEG02, MC00a, MCJ01, MC09, MSYL00, MHS02, MC01, MC02, MKR00, MPC01, MPC02, Myo01, NFK01, Noe00, OMK09, PR01a, PKvdB00, PKP01, PS01, PL01, PB00, PK00, Pop00, PM00, PO01, QV01, QL01, RH01a, Rem00, RW00, RRL01, RR02, RH01b, RMO00, SS02, SWTM01, SY09b, SJ02, SCD00, SFW00, Sti02, Str00, Str01a, Stu01, SB02, SP00, SPW+00, TK00, TX00, TMB07, TR02a, TB00b, TC01b, TBE+01, TRL01, UMRK01, VB00, VCTS02, VR02, VC00, VSMW01, WPM02a, WPW02, WGCE01, Wan02, WL02, WDM01, WW00, Whi00, WA02, WS01, XCZ02, XK01, Xu01c,

Xu01a, YXU01, YSC01, Yon01, Zha02, ZWL02, ZYC02, ZH01, ZTZ02, ZCMI01, ZP02, ZKK01, ZRR00, vdVvdV02, AE03, AV05]. **method** [AH08, APR09, AS09, ADE+08, AR08, Alb08, AS05b, AJT04, AA06, AL06, AEP04, AZC05, AC05, AMP09, AKLMP09, AZ06, ADS03, ACLS03, AKP07, AMSZ03, AMS03, AMS04, Aza07, Aza09, BIW04, BIW08, BFB08, BO05, BSKH07, BHS09, BHL+04, BMN05, BL04, BW06, BHL07, BS08a, BYS08, BC05, Bar04, BB08a, BGN07, BFT07, BFT09, BDHN09, BZ04, BHR03, BWLM09, BL08, BS04b, BM05, Ber06a, Ber04, BLG+08, BS04c, BCM09, BG05a, BT06, BGS08, BS04d, BS05, Bor07, BDCG03, BSLN09, Boy03, BRB03, Boy05a, Boy06, BP08, BEG03, BB08b, BG05b, CD03, CDJ07, CJSS08, CCG08, CLG07, CLL07a, CP03a, Cap08c, Cap09, CWJ07, CTW+08, Cec05, CR05, CR07, CFR09, CKLS05, CA06, Cha07a, Cha07b, Che03, CL03a, CP03c, Che04, CC07, CELS07, CLTA07, CL08d, CX08, CXZ09]. **method** [CCG+06, CS07b, CS07c, CHG+07, COER07, Chu09, CJR04, CS03, CS04, CY05, CFP06, CGKM06, CSML06, CC08b, CK07, CFR08, CB09, CCF+05, CFP08, CkM07, Cui09, CB07, DMHP07, DM03, Dar02, DH04, DK06, DDM07, DCF+08, DC07, DUEB07, DR09a, DMP08, DFV08, DTMS06, DW09, DLT09, DDH05, DLD08, DGMN03, DS09a, DG09, DLP08, DF04, Dom08, DGJ03, DLMK04, DHM07, DND06, DSB06, DD03a, DD03b, DCK08, EE08, ECL02, Eld07, EB06, EULM03, Fan08, FCJ08a, FCJ08b, FNS07, FP08a, FRS08, FS09, FS04, FEL+05, FM04, FM05, Fen06, FYH+06, FL09, FE04, FD07, FL07, FWR07, FHLK05, FWW04, FLZ09, FD09a, FWK08, FLM08, Fox08, FG07, FH03, FY07, FT09, FKK08, GZ07a, GT09b, GMD03, GFG09, GS03a, GS05b, GS08, GGS09, GBC06, GS07, Gel06]. **method** [GMD07, GFR09, GCNB07, GS05c, GG09a, GPF03, GW05, GMAj09, GWF+07, Gom08, GGRS08, Gre04, GH02, GP05, GHMP07, Gri09, GKV09, GB08b, GLLN07, GLLN09, GS09c, GD06b, GL08, HPS06a, Hab04, HH07a, Had05, HS09a, HBHJ08, HJ09, HLFB07, HT07, HL04, HZGB04, HZGB05, HP04a, HSQ03, HWL08, HKM07, HPD09, HJKO08, HMPR07, HKG08, HL07a, HW05, HLO08, Her09, Her05, Her08, HAD06, HK05, HK08b, HK08c, Hig05, HP04b, HL05, HS08b, HS08c, HY09, HY11, HK04b, HKAH06, HA06, HA07, HSL08, HT03, HLX06, HSS07, HSC09, HST09, HS07b, HF08b, IX07, IX09, IK07, IKS+09, ISNY05, IOTK04, IDD04, JH06, JD09, JRS05, JL04a, Jao07, JBF07, JVVS07, JLT03, JD04, JLT06, JL09, JH08, JX06, JC06a, JX07, JHZ+09, JLL+06, JM05, JS07, KKM08, KA05, KE06]. **method** [KK03a, KHdT+08, KW08a, KIH09, KIHM09, KY08, KZ04, Khe04, KGJ05, KC06, KH07, KK07, KDF07, KL04, KvdVvdV06b, KFV+05, KAS06, KMS04, Kok09, KS09, KT03, Kro01, KSW03, KLSW09, KB08, KSS09, KSGF09, KLP+09, LKD04, LTH08, LL09, LG03a, LG09, LY07a, LL03a, LLP07, LSL08, LH05a, LFSS07, Lap03, LP07a, LGHD08, LS03, LSA06, LKP06, LWP+09, Lee03, LVL05, Lee07b, LMX+08, LZT09, LKE04, LTE07, LM08b, LZ09b, LZ09a, LCH03, LCW04, LHZW05, LS07, Li08a, LSZZ08, LN09, LLOT06, LJS08, LJW09, LR07, LT09a, LF05, LMS08, LSV09, LKY03, LKW05, LKO05, LKMU05, LY06, LVW06a, LVW06b, LLTA07, LV07, LW07, LP07b,

LX07b, LW09, LKMK09, LNXNTX09, LS09, Liu09c, LM03b, LD04, LHGF04, LHGF05, LJ07, LS05b, LRS09, LCM07, LJ06, LBL06a, LBL06b, LBL07, LTWW07, LBL08, LMZ+08, LLC+08, LTL+09, LMK09, LZH+06, LZH+07].
method
[Ma05, MY06a, MZ08, Mac07, Mac03, MWM03, MCM04, MN09a, MKM04, MKOW04, MRC06, MR06a, MGCR07, MKLU05, MRS09, MvW08, MC06a, MCG08, MB04, MS04, MY07, MSJ07, MU09, MP08, MKL06, MP03, MK08b, MZ07, MESV09, Mil08, Min04, MG06, MG07d, Min07, MR07c, MDB+08, MDM03, MT07b, MR06b, MMPB07, MHdB07, MK06, MT08, NLF03, NTO+07, NPH09, Nas08, NA08, NBLQ09, ND04, Ngu08, NPC09a, NPC09b, NJX09, Nik06, NCS03, NG06b, NGvdWS09, NLT08, OK06a, OSK09, ODAF07, ORM06, OK05, OKZ07, OJW06, OCFF08, PDHP07, Pap08, PS03a, PPCW06, PSCQ03, PSC+06, PN03, PS07a, PLS+09, PFSL07, PK05, Pon09, Pon05, QW05, QA09, QL04, QS04, QKS06, QS07, QLS09, RB05, RMB07, Rah04, RAB07, RSM05, RE07, RE05, RBS06, RSW06, RMSB09, RRW05].
method
[RJM07, Ros06, Ros03, RBK09, RW03, RM08, RC09b, Ryc05, RJ04, Sac07, SB06a, Sam09, SROCFF03, SROCdPFF05, Sar03, SFDL07, SZB+07, SAK05, SWG08, SHS08, SBCL06, SB06b, SSB07, SWK06, SF03, SM04, SCT09, Sha05, SFE07, SH07b, SL04, SDD07, SLG+03, SMS04, SY09a, She08, SPT05, SL07b, SL07a, SAKDJ05, SLC07, Shy06, SSND03, SS07b, SK04a, SHTB09, SCW+09, SM06b, SPLM09, SDT08, SK04b, SCRL08, SWL06, SZLW06, SXyWX09, SR09b, Sus03, SSH+07, TM07, TZ03, TZL05, TC07a, TOZP03, TLK07, TZ07b, TLL+08, TLK09, TTZ03, TJS03, THL06, Tau07, TBT+09, TT09, TPV07, TBJ+09, TMD+08, TKH09, TOY09, TW07, TC07b, TG06, TG08, TW03, TU04, TF03, UTBV03, Uhl05, UPKN09, Utn08, UYK+04, VTC+07, VGCN05, VW02, VOD08, VL07, VLW07, VBL07, VGPL09].
method [VVS08, VBJ08a, VBJ08b, VK05a, VGZB09, VGBZ09, VSW04, VSW06, Vik03, VK05b, VHI05, Vol04b, VCM00, WK07, WFTS05, WG08, WK05, WK04, WZL04, WW04, WL06, WT07b, WLKW07, WXG07, WTL08, WGS+08, WSTW09, WFC09, WYS09, WZ09, WGRA09, WZ07, WKG06, Wen06, WWK05, WA08, WKL07, WKB07, WZ03, WMH07, WS09, XMP07, XH03, XSG04, XW06, XLLZ06, Xu08, XHC08, XSL09, XLS09b, XD07, YMT+04, Yam05, YZ07, YM07, YYF09, YU05a, YJL+06, YFLS06, YP06, YS09, YZLH09, YLD09, Yeh07, YC06a, YC06b, YH07a, YSO07, You06, YA05, YCL05, YJF+06, YSS05, YGL05, Yu05b, YZW05, YSW06, YS07b, YZW07, YW07, YF09, YS06, YT07, YFBH07, YH07b, ZGT06, ZGK09, ZWS07, ZKY05, ZP05, ZEA06, ZYL+06, ZT07a, ZZ07, ZSC07, ZB07, ZZ08, ZZVM08, ZL08a, ZKL+07, ZFM08, ZZ09, ZRS06, ZP06, ZSB+08, ZSP08, ZHSS09, Zho07].
method [ZW06, ZZFW06, ZL08b, ZTPM05, ZQSD08, dVGLM09, dSMN+04, dTDI+07, vBK03, vDZ06, vLAvdV06, vdBG09, vdVX07]. **method-based** [DLD08]. **methodology** [BdCB09, FK09b, GZ08, GS09b, KDOO05, YC09a].
Methods [AL01, AGP01, Azm02, BKR+01, BMRS01, BMRS02, BM01c, Boy02b, BS00e, BCM01, BSB01, CL01c, Cod01, CKS00, CMOV02, DCS00,

DDH01, ELC02, ED07, FVOMY00, FF02, FPC+00, GP00a, Gir00, GHW02, HH02a, HMS08b, HW02, HKV01, HLS01, Jan00, KLN+01, KR02, KMA+01, KKR01a, KKR01b, KM00, KMS02, KHV01, KMJ01, LOK01, LM01, LTZ01, LLdlP+00, hLA01, LMSW02, Mac00, Mav02, Mit00, ML01b, NR01, NC01, OKL01, OF01, OS01, PD01, PRT00, PX02, PW00a, PW00b, PW01, PWS+02, Rei00, RXH02, RM01b, Saf00, San01, SW00, Set01, SMP01, TNGH02, TWS02, WK01a, YC02, APTJ+04, ABLS05, AS03b, Ain04, ABRR09a, ABRR09b, AT05a, BB04a, BSW03, BCL06, BY07, BBHM09, BZ08, BS08b, BHR06, BB07a, BC08, BS07, BT05, Bor03, BKLL04, BS06b, BLM03].
methods
[BDS07, BRB03, BCGR05, BHR04, CT09, CLS+06, CL08a, CSC+08, CGMS03, CGMS06, CQO04, COV04, COQ06, CM06, CLS05, CL08c, Che07, CLL+07b, CJ07, CR09, CLS04, CWD08, CFJ06, CC04, CD07, CP04c, CF04, CFJ09, DSM09b, De 04, DGH08, DL04, DD09, DLP08, DL03b, ERVE09, EGHE06, EHD08, Eg07, ETT05, ES06, EN06, ÉGP09, FSS03, FWP09, FD03, FR03, FPT05, Fou06, Fox09, Gab07, GT09a, GCGE03, GLMH09, GK03, GSV06, Gir06, GR08, GR04, GKL03, GD08, GLLX08, GF05b, HD07, HMS08a, HKO07, pHL09, Hel09b, Heu03, HHMK05, HNGB04, HL06b, HyLL07, HJL09, HL07b, HS04, HJM06, HJM07, HMR08, HRV08, HR07, IF09, JHSZ07, JSCZ08, JW09, KCH06, KCGH07, KOQ08, KTD03, KKL04, KK05c, KK05d, KPB08, KYK07, KvdVvdV06a, KWBH09, KK04, KAS08, KS08b, KKO04].
methods [Kri07, Kro05, Kro02, KWD07, KDW08, KH08, KP05, LY07b, LG08, Lau04, LM04, LSY04, LM03a, LBS+04, LMS04, LRZ04, LH08a, LS05b, Low05, Low04, LZC04, LB03b, LMNK07, LTM09, LCdCN+03, MJ09a, ML06a, MS08a, MEKS03, MNR07, MN06, MP05, ML08, MP07b, MJ06, MST06, MJ07, MSP+06, MG07c, MY06c, MCP03, MHPR08, MLS+05, MK03, MO06, NW07, NM06, NU09, Ni09, NWZL08, NLT07, NB04, NZ07, OS04, ODCK07, PR04a, PS07b, PS07d, QLK07, RCT07, RRC05, Ren07, RBvdV08, RGK07, RSO04, RS05, RS09a, RH05, San03, SPB09, ST06, SK08a, SM04, SB06c, SRNV07, SS05a, SFVK06, SAM05, SY03, Sme06, Str07a, SP06b, ST03b, TZHT04, TZ06, TWM07, TCN09, TD07, Tok06b, TT06a, Tow07, Tow09b, Tsy04, TPVG06, VSG05, VK04, Vos06, WT07a, WHLL03, WWC07].
methods
[WLT08, WLC+08, WM09, WZL09a, WZL09b, WG09, WG06, Wen07, Wen09, WH05, XXS07, XS06, XS09, XS05b, XLS09a, Yan08, Yan09, YYT05, YKG04, YE05, Yus06, ZKDT07, ZSW07, ZH04, ZKS+09, ZW04, ZQ09, vEB05, vOP04].
Metric [Hua05, Aza06, HZ07a]. **metrics** [OB06]. **Metropolis** [QL01].
MFEM [WLE+00]. **MHD**
[HY11, ALGM01, AT05a, AT08, BTW04, BBG+02, BvdHKG07, BSLN09, CKF02, CK03, CCF+05, CH08, DKSW01, DKK+02, Del01, DZ09b, FMR09, GS05b, GS08, GLL03, GFR09, GTMC08, GKV09, GLLN07, HMM08, HJ07, HY09, Jar04, LGKP07, LW01, LL08b, Mig07, NMM+07, NMH+07, ORM06, RWWS07, Sam09, SDGX07, TB04, TA06, YS07a, ZYL+06, vdHK07]. **MIB** [YZW07, YW07, ZW06]. **Micro**

[GS02, BBD04, BEA09, CRAG07, CHBS04, FT06, LCNR07, LR03, NFvS+06, RB05, RE05, SFX03, SS05c, TS08, ZXQX08]. **micro-** [LCNR07]. **micro-channel** [SS05c]. **micro-channel-flows** [TS08]. **micro-channels** [SFX03]. **micro-fluidics** [RE05]. **Micro-Inertia** [GS02]. **micro-local** [BBD04]. **micro-macro** [BEA09, FT06]. **micro-mixing** [CRAG07]. **micro-plate** [CHBS04]. **micro/nano** [NFvS+06]. **micro/nano-channels** [NFvS+06]. **microactuators** [LTM09]. **microbial** [PC08]. **microchannel** [VLB09, ZTPM05]. **microchannels** [WWC07]. **Microelectronic** [AIRY01, AIR03]. **Microfluidic** [AA02]. **microfluidics** [GV08]. **microlocal** [BCR04, Dar02]. **micromagnetic** [VOD08, dSMF09]. **Micromagnetics** [WGCE01, GCGE03, MO06]. **Micromixing** [MJ09b]. **microphysics** [BDR+04]. **Microscale** [Myo01, SB02, ZZ01, KPB08, Myo04, YE07]. **microscope** [TLAD04]. **microscopic** [AKP07]. **Microstructural** [ATV01, LLN00, CP04b, CP05]. **Microstructure** [EKK02, RV00, BEA09]. **microstructures** [WP09]. **mid** [CP03a, dSM05]. **mid-point** [CP03a, dSM05]. **Mie** [Shy01]. **migration** [CP04b, FEL+05, HS07a]. **Mikhlin** [HW05]. **MILC** [BLS08]. **Million** [CWWZ00]. **MIMD** [DPRS01]. **Mimetic** [CS01a, LMS04, dVGLM09, GL08, LSS06, LMS08, SP06b]. **Mine** [GKL00]. **minimal** [Cec05, KLSW09]. **minimisation** [CORT09]. **Minimization** [HdGKG08, Yam01, COV04, JCT07, Lap04, RSSL09, RSS09, SNLS03, YMW06]. **minimizing** [BT03]. **minimum** [CFR04]. **mirror** [DDK06]. **Miscible** [IYI+02, TM05]. **Mises** [GMO04]. **Mittra** [NCW+09]. **Mixed** [AP02, BFG08, CGSS00, VCTS02, dA04, AMS03, BWLM09, BG05b, CHPR09, DDK06, Doh09, GL09b, HPS06a, HBLD07, Hel09b, LJW09, MP05, MESV09, NV09, ND04, RRW05, VBJ08a, VBJ08b, WG09]. **Mixed-Basis** [AP02]. **mixed/discontinuous** [MESV09]. **mixing** [CRAG07]. **Mixture** [IYI+02, Shy01, VLKM02, BW07, CET09, Shy04, TLK07, ZKS+09]. **Mixtures** [OB02, VG01, dSAK00, AS03a, AL08, SPB09]. **MLFMA** [DBF08]. **mobile** [RF06, RMF08]. **mobile-bed** [RF06]. **Modal** [LD06, MHdB07]. **modal-based** [MHdB07]. **mode** [CTS07, DH07, HW05, LY07b, Oh04, PGN08, SRNV07]. **mode-separated** [Oh04]. **Model** [ACK02, BISS01, Bon00, BMS00, Cle00, CR02, DDG02, DE02, DOWB01, EF02, FCB02, FGOV00, FV01, GP00b, GMS06, GC02b, GSW00, Hun01, JC02, hLA01, Mil06, Mil07, ML01b, MOS+00, MR01, OF02, PS07c, PCCD00, Rom02, Sni01, Sun00, Tol02a, Tol02b, TTSG01, VCG03, vHBB02, AZB09, APP+07, AK09, AW04, BS04a, BBDE05, BG07, BN04, BCCV09, BL08, BBvdV06, BCZ04, BNNP06, BTWGvBW07, BJP04, CLS+06, CD04, CL07a, CL08b, CL03a, Che04, CL05, CL08d, CX08, CW08, CK08, CFGK05, CDV07, CDL04, CDL05, DDK06, DSM09b, DJM05, DGM07, DDH05, DSS07, DDGS09, DDFT09, EPW08, EKBL09, EF03, FVE04, FGS09, FNBB+08, FCGK05, GGMN+09, GS03b, GB03, GC06, Gra06a, GD07a, GD05, HBLD07, HW08, HHPW08, ICO04, IHL03, JA08, JN07, KD09]. **model** [KFIG06, KB04, Kou09, Kwo08, Lar03, LHR+07, LDN04, LWDA09, LB03a, LGN05, LWF+08, LD09b, LF04, LC03, MWM03, MM09, MGS07,

MG05b, Myo04, PM08, PSC04, PS05, PHW08, PVPS09, PS03b, QA09, QFR04, RRV06, Rom07, RFVP09, Sar03, SMT+08, SWK06, SW04a, SE04, SY09a, SL03, SK08b, SS05c, Sof09, SW08c, SK07b, SXyWX09, SS04, TLK07, TLAD04, TM05, TK04, VTC+07, VP09a, VK09, VP09b, VQLZ04, Wea09, WDÖ+03, XCY06, XDB09, XS07, XMT06, XHC08, YH07b, ZSWW03, ZK04, ZWS06, ZVQ07, ZXQX08, ZZ08, ZL09, ZDD09, ZSC06, KN09].
Model-based [Mil06, Mil07, GGMN+09]. **model-constrained** [BTWGvBW07]. **Modeled** [GW01, HR08]. **Modeling** [Ano08-50, BV00, BTFY01, CFM09, CS05, CDDH07, CMP07, DDG02, DC02, FSM+01, GZ07a, GS02, GM01a, GIA+07, GVT01, Hum05, JL09, KM08b, MT07a, MK02b, OV00, OP02, OVG07, Ota00, POS00, QLS09, SJ02, SD00, SMO00, TZ07b, VPA02, Whi00, XK03, YLA08, ZVHP03, AHF04, AMH04, ASQR06, AJ09, BOK+06, Cha09, FK06, FWR07, GZ09, GR08, GH08b, HSW07, HDR+06, KDOO05, KT06, LMV04, LVL05, LSS+09, Liu09a, Lyn08, MZ08, Mar09, ME09, MC03, MDM03, NCW+09, OK06b, RMB07, RE05, RM07, RW03, SR09a, SZ08, Sau04, SKWN03, SM09b, SCC+03a, SCC+03b, SMGJ09, SP06a, SBC04, TZ07c, TJLT08, VSV03, VLB09, YE07, ZKL+07, ZH09].
Modelled [CGSS00]. **Modelling** [CDS04, CP05, Cho05, GFS08, GYKL05, Hor02, JG09, KM02, LMS05, Pri08, VHI06, WHV+00, ZGT06, de 00, BQQ09, CRAG07, CP04b, CBS05, Eli03, ES06, FHLO08, GLT07, KMSH08, KAS06, LKD04, Lap08, LDL+09, LKX04, MT07b, QP03, RCB05, SS06a, SS06b, SJC07, Wan05, WGRA09]. **Models** [BSJ01, Bla00, ČPT01, GR01, HK00, Hig02, HKV01, KK00c, MEG02, Mie00, RV00, SSC00, ACGV07, AG09, BCB03, BKST09, BTC05, BC08, BBI09, BK07, CSC+08, CRAG07, CKPW07, CRB+08, CDV05, DVHM05, DMR09, DP07, DP08, Dic08, FCD+06, GT09a, GZ07a, GZ08, GD06a, GM06, Hag07, HK08c, Hig05, KMID05, Kim05, LM08a, LD06, LCB09, LB03b, MM03, MJ09b, ML06b, PA07b, Rah04, RW08, SDCC05, SSE03, She08, SK04a, SS03b, SK06, TSG+06, TW05, Thu08b, TR07, WAH09, WdND06, YHCD05, ZRS06, dFGLS05, dFJS09, dNWvSD07, dTWD09]. **Moderate** [VCP00, Vik03]. **Modes** [GBS00, RVVL09, PPCW06, TW05, TRSK09, TR07, WC08, dSMF09].
Modest [MCP03]. **Modification** [SWTM01, Vik03]. **Modifications** [RM01a]. **Modified** [BZ08, BADG00, CJ09, FH02, GST02, Jon05, LSL08, TTSG01, TSG02, WG06, BZ04, BL09c, CHL06b, Eg07, MU09, MC07c, Pal08, WRu03, ZB07].
Modified-truncation [Jon05]. **Modular** [Str00, SSB07]. **Molecular** [AC01, DPR00, DGA08, Yon01, AR08, ALT08, BPMR08, DTS05a, DTS05b, DST07a, GT09c, HS04, JG09, KNH05, LPK05, Li08b, MC07a, ML04, NTO+07, PGB05, Pau07, PSZ09, Pro03, SE09, SHP07, TG04, VS09, YWC07].
molecule [LR07, NTO+07, SMSS07, TLAD04]. **molecules** [HO06, LD06].
Moment [DK02b, MHS02, Abr06, Abr07, Abr09, AS09, CX08, DFV08, DS08, Fox08, Fox09, FDK06, GE07, IX07, IX09, LTZ03, RCT07, RW08, TS08, TFDK04, TRL01, VVS08]. **moment-constrained** [Abr06, Abr07, Abr09].

moment-of-fluid [AS09]. **Moments** [BW02, DC08, FLM08, LKD04, SH07a, Xia04, XAI06]. **momentum** [ABRR09a, ABRR09b, KH09, SAM05, SHP07]. **Monge** [DCF+08]. **Monitor** [CHR01, HS03b]. **Monitoring** [ESD05]. **monolithic** [DHOT09, GA09]. **monomolecular** [RE07]. **Monopoles** [Del01]. **Monotone** [Cap09, LSSV07, YS08, AM03, AM04, CL08d, DPRN05, LSV09]. **monotonic** [KK05c, KK05d, Yeh07]. **Monotonicity** [BS00a, RM01a, TS02, BD08, DT04, HR07, MD06, NE05, RGK07, RH05, SH07c]. **monotonicity-** [RGK07]. **Monotonicity-Preserving** [RM01a, TS02, DT04]. **Monte** [ABRR09b, LM01, LM03a, MCP03, ABRR09a, AMH04, BBHM09, BS07, BMDS05, BSP06, BUEG06, BB09b, CLL07a, CGMS03, CGMS06, CTW+08, CV06, CF06b, CS03, CS04, Dem04, DL03a, DL04, DUEB07, DDDC07, EULM03, ED07, FG04, FG05, FT09, Gen01, GL09a, GMH06, HH07c, HGM01, IH04, KB00, KMV03, KAS08, KLW09, LSL08, LM08b, LD09b, MMKP08, MU09, MBS03, NU09, OK07b, Pal08, Pet07, PK00, PVR07, PVPS09, QL01, RRV01, RS06b, SSE03, Sch08, SL04, She08, SA06, SMSS07, UH01, VK04, VK05b, Vol04a, WBM09, WGS+08, WMH07, ZSB+08]. **Moore** [FS06, VPA02]. **morphological** [GFG09]. **morphology** [Liu09a]. **Morse** [WWVG00]. **MOSFETs** [BMN07, BCCV09, JSCZ08]. **MoT** [Noe00]. **Motion** [BCMO01, CBMO02, Cor00, LK01, PG02a, RMO00, RM01b, vdVvdV02, BB04a, CJLS09, DHM03, Eld07, EES09, FPT05, FG06, Kro01, LMH07, MR07b, RA09, SP04, Xu08]. **motions** [Fra04, LDN04, PC06a]. **movement** [SC09a]. **Moving** [BMR01, BMRS02, BW01, FGG01, GPH+01, Han00, HS06, Hua01a, LTZ01, LTZ02, MJ09a, MR00, MR02, RRL01, Str00, Str01a, TZHT04, TC01b, UMRK01, Wu01, ZRR00, AT05b, Aza07, Aza09, BS08b, BL09b, BCGR05, CSO09, CYS06, CHCOB09, DDM07, DT03, FS04, FYH+06, FG07, GLL03, GS05c, GNNB08, Gre04, HT07, HMR08, HF08b, IG05, JD04, Jia07, JX07, JS05, KY08, KC06, KS09, LL03a, LC06a, LZ09b, LHZW05, LLOT06, LZH+06, MWM03, Mad06, MKLU05, MLS+05, NXS07, OTCM08, PN03, PH06, PL08, QS07, QLS09, RW03, SS08, SY09a, Spe05, TZL05, TLL+08, TLK09, VB09, WT07a, XW06, YB06, YZLH09, ZKS+09, vDZ06]. **moving-boundary** [LHZW05]. **moving-least-squares** [GNNB08, VB09]. **MPDATA** [SS05b]. **MPI** [OMK09]. **MRA** [BLG+08]. **MRT** [PA07b]. **MSPH** [BZ04, BZ08, ZB07]. **Multi** [AS07, COR08, CD07, HL06b, HyLL07, JLT03, LNGK04, LL07, LJ09b, MN09a, NTYT01, NTYT02, PPC00, Rei00, SBGK00, SK07b, TOY09, TRL01, YKK08, AE03, AK09, ADR08, BSKH07, BJ09, BOT05, BLM03, BL03, BK07, CLG07, CLLG09, CET09, CR05, CKLS05, CLS05, CHB09, CWYM08, CX08, DR09a, DW09, Dic08, DS08, EHST03, EHS+08, FWK08, FLM08, GAC+09, HJL09, HG03, HA06, HA07, HA09, HAI09, IX09, JVVS07, JLT06, JL09, JLOT05a, JW09, KSO+05, KK05c, KK05d, KLK08, Kou09, LMV04, LM04, LR07, LL03c, LW07, LBL04, MVD04, Mar06, Maz06, MG08, MK05, MDS03, MLS+05, MK04b, MGNB09, NGvdWS09, Ols07, OK06b, OK07a, PSC+06, PA07b,

RSM05, RS06a, SGFL09, SD05a, TZ07a, TW03, TJLT08, UBRT07, VP09a, VHI06, WK05, WB09b, Xia04, XAI06, XHW07, ZWS07, ZSWW03, ZWS06]. **multi** [ZSC08, dSMN+04]. **Multi-Block** [PPC00, CHB09, NGvdWS09, PSC+06]. **multi-class** [ZSWW03, ZWS06]. **multi-component** [CKLS05, CLS05, JVVS07, Maz06, MLS+05, MGNB09, TZ07a]. **multi-corrector** [LRS09]. **Multi-dimensional** [LJ09b, NTYT01, NTYT02, SBGK00, TOY09, XAI06, YKK08, BL03, JW09, KK05c, KK05d, KLK08, LL03c, MG08, Ols07, RS06a, XHW07, ZWS07]. **Multi-domain** [CD07, MVD04]. **multi-element** [FWK08, WK05]. **multi-fluid** [FLM08, GAC+09, HG03, HAI09, LMV04, ZSC08, dSMN+04]. **multi-frequency** [WB09b]. **multi-grid** [LR07]. **multi-implicit** [BLM03, LM04]. **multi-integrated** [Xia04, XAI06]. **multi-level** [EHST03, EHS+08]. **Multi-material** [AS07, BSKH07, DS08, LBL04, SGFL09]. **multi-mesh** [DW09]. **Multi-moment** [TRL01, CX08, IX07, IX09]. **multi-parameter-dependent** [DR09a]. **multi-particle** [ADR08]. **multi-phase** [CET09, CR05, HA06, HA07, HA09, JLT06, KSO+05, Mar06, MDS03, TJLT08]. **multi-physical** [MK04b]. **Multi-physics** [LL07]. **multi-point** [CWYM08]. **multi-quadric** [TW03]. **multi-relaxation** [PA07b, RSM05]. **Multi-resolution** [LNGK04, BOT05, CLG07, Kou09]. **Multi-scale** [JLT03, MN09a, SK07b, AE03, BJ09, JLT06, JL09, OK06b, OK07a, UBRT07, VP09a]. **multi-scattered** [Dic08]. **multi-species** [AK09, BK07, SD05a]. **multi-state** [MK05]. **multi-static** [CLLG09]. **Multi-Symplectic** [Rei00, COR08, HL06b, HyLL07, HJL09]. **multi-valued** [JLOT05a, LW07]. **multi-viscosity** [VHI06]. **multiband** [RW08]. **multiblock** [RJ06]. **Multicenter** [GM01c, SB06a]. **Multicloud** [KJ09a]. **Multicomponent** [HLS01, LBD02, OB02, Shy01, WDM01, BGM08, BS09b, JC06b, Lau06, MC04, MM03, Shy06, WAO+04]. **multiconfiguration** [CGL06]. **Multidimensional** [CRD02, GF02, Lap02, Noe00, NC01, SHA08, TX00, WB01, ZR08, Abr06, Abr07, Abr09, Asl04a, BFT09, BGN03, KT04, LD09a, LF06, LHGF04, SL06, TXCD07, XMT05]. **Multidomain** [GBGM01, LP07a, DDH05, DLD08, DGJ03]. **multifluid** [MCN03, NDT06]. **Multifluids** [AK01, HK04b]. **multifractal** [TPVG06]. **Multifragmentation** [PA00]. **multifrequency** [MYW07]. **multifrequency-grey** [MYW07]. **Multigrid** [Alb00, BZB00, BL05, DIV00, EAY01, FOLD05, GMB01, KKS05, KJ09a, KvRvdVvdV07, KM00, Mav02, MLS01, Pai01, SMB09, Soc03, VC00, WK07, Yua02, Zha02, ABHT03, AHPT07, CLS+06, CS08a, DHOT09, EKP07, GT05, HH07a, Heu03, HMMO05, HWWL09, JHSZ07, KW06, KKL04, KL04, Küm04b, LLY05, LDPL08, LBL06b, LZH+06, LZH+07, NM06, NvL03, RKE+07, SRNV07, TZ03, VBL07, WZ09, WKL07, XYK05, vdV08, SD05b]. **multigrid-based** [RKE+07]. **Multigroup** [TFDK04, GS06a, SO08]. **multigroup-WENO** [GS06a]. **Multilayered** [CY00, Gut00]. **multilayers** [GCW07]. **Multilevel** [BCHL07, DJTT05, TSB01, TC09b, GKD09, Hab04,

LSS+09, LMS08, RAB07, TSB03, VK05a]. **Multimaterial** [LX00, UTBV03]. **multioperators** [Tol07, Tol08]. **multioperators-based** [Tol07, Tol08]. **Multiphase** [GM04, Gos04, GM06, Han01, HLS01, SJ02, Sni01, TBE+01, VLKM02, VC00, YXU01, AS03a, BCB03, CL07a, CL08b, DP09, GCNB07, HJ09, ICO04, KT07, LZT09, LK09, LKO05, LJ06, LTL+09, MC04, MK06, NL08, PFSL07, PA07b, QLS09, SPB09, Shi07, TBJ+09, WP09, ZZVM08, ZLAC05, ZSC06]. **multiphysics** [FMD+09]. **Multiple** [GB08b, LR01a, LTZ01, Mu02, RW00, TNR02, XHC08, ACR08, BS09a, BBMB07, BOK+06, CJLS09, CGDT09, CK07, CB09, Del03b, ELVE07, GK04, GK07, HS09a, JG09, KCMM03, Kro02, MK07, Ngu08, RW03, SHPC09, Spe05, TZ07b, YXLF05]. **multiple-grid** [CK07]. **Multiple-Heaps** [Mu02]. **multiple-scale** [BBMB07]. **multiplication** [NU09]. **Multiplicative** [Ram06]. **multiplier** [BG05a, DLMK04, SPT05, VMN07, ZSP08]. **multiplier/fictitious** [SPT05]. **Multipliers** [TB00a]. **Multiply** [BMQS02, HJ02, Mil05, VRM07]. **Multipoint** [QL01]. **Multipole** [Dar00b, CDJ07, CCG+06, CWD08, CFR08, Dar02, DH04, DC07, FD09a, GKD09, GH02, GD06b, GD08, KP05, LCM07, ST06, SK04b, TC09b, TG08, VOD08, YBZ04, Yin06, ZT07a, ZKL+07, ZD05]. **multipole-accelerated** [ZD05]. **multipole-to-local** [CFR08]. **multipoles** [OLLL03]. **Multiresolution** [CDKP00, BK07, DGRS08, RSTB03]. **Multiscale** [AA02, BP06, CGP05, CF06b, FSM+01, FY07, HJ09, HO06, JP00, LLIK01a, LLIK01b, LJ06, PK00, RV00, TZ07c, Vay01, AZ06, BCM+07, BLM04, CELS07, ERVE09, EGHE06, FVE04, FMD+09, GZ07a, GZ09, Gra06b, HBHJ08, KP07, KKS07, LZT09, LMS08, MM09, MY06c, MHdB07, NZ05, Ngu08, PBH04, RE05, SDD07, SY03, THL06, Tan08, WGRA09, YS07a, YE05, YE07, YH07b, ZSB+08, ZHSS09]. **multiscale/multiphysics** [FMD+09]. **multislab** [dA04]. **Multispecies** [BJ02, Del03a, SD05b]. **multistack** [DS05b]. **Multistage** [Löh04]. **Multistate** [BU02]. **multistep** [HR07, RH05]. **multisymplectic** [IS04, SW08b]. **multitime** [vdV08]. **Multivalued** [Gos02, JLOT05b, QL04]. **Multivariate** [WGNT06, AGSX09]. **Multiwavelet** [ABGV02]. **Multiwavelets** [JMK01, TNR02]. **Mumford** [ET06, RR07]. **MUSCL** [Ber06b, BL01, Waa09]. **MUSIC** [PL09a]. **MUSIC-type** [PL09a]. **MUSTA** [TT06b].

N [Aza09]. **Nagumo** [EV03]. **Nanbu** [DWC+09, WLC+08]. **Nano** [GK02, BCCV09, JSCZ08, LCNR07, VTM+08, ZK04]. **nano-channels** [NFvS+06]. **nano-flows** [LCNR07]. **nano-MOSFETs** [BCCV09, JSCZ08]. **Nano-particle** [GK02, ZK04]. **nano-systems** [VTM+08]. **nanodevices** [CLL+07b]. **nanoparticle** [MLFG06]. **nanoparticles** [FY07, MWG+06]. **Nanoscale** [BGR08, BMN07, CL05, FH07]. **nanostructures** [PA05, RRC05]. **National** [Har04]. **Natural** [MPP01, SVH+06, AZ05, DR09a, GZ07b, GCCD07, MZ08, PS03a, PSC04]. **nature** [Fen06]. **Navier** [DD03a, AQ09, BQQ09, BCDR06, BHR06, BB07a, BACFT05, BLM08,

BCVK02, Boe05, BT06, BJ09, BCM01, BGLN05, CSL08, DC01, DR09a, DD09, DB04, Dom08, DD03b, EHST03, EHS+08, FL03, FOLD05, FD07, GS07, Gel06, GSV06, GCNB07, GR08, GS03c, Gri09, GSW00, GK05, HH08, HH01, HDC02, HK08a, HH02b, HLMM07, HS08b, HLL08, HC05, ILL09, JK00, JL04b, JMC03, KA05, KE06, KDK+07, KG08, KAK03, KvdVvdV06a, KvdVvdV06b, KvRvdVvdV07, KM00, KB01, KS09, KT03, LMN+09, LOK01, Lee09, LC01, LL01b, LFX05, LDPL08, LRZ04, LP07b, Liu09b, LMS02, LB04, MPP01, MVD04, MRS09, MCG08, MSS08, MF00, MG06, MLS01, NW07, NZ05, Ni09, Nik06, NMS07, NGvdWS09, Pai01, PNMK09, PKP01, Pet01, PR03, PR04b, Pon07a, Pon07b, PR06, RBH03, RS06a, SML02, SNGAS04]. **Navier** [SFE07, SMB09, STZ07, Soc03, SCN07, SN08, STR07b, SPW+00, TOZP03, TXCD07, TWS02, VSW04, WRu03, WPH00, WK01b, WS01, XK01, Xu01c, XYK05, YS07a, ZL08b, ZDNP00, vBRK01]. **Near** [FR02, KMID05, MK02b, OK07b, SKWN03, GLLX08, HAP05, Khe04]. **Near-field** [OK07b]. **Near-wall** [KMID05, SKWN03]. **Nearest** [Par02]. **Nearest-Grid-Point** [Par02]. **Nearly** [AJG01, BKLL04, DST07a, DS09b, HL07b, ZJW06]. **necessary** [CLMRP08, LM08a]. **Negative** [SHS02, MHE06, NV09]. **negativity** [SCT09]. **NEGF** [JSCZ08]. **Neighbor** [DTS05a, DTS05b]. **neighboring** [XLS09a]. **Neoclassical** [HKKS+01]. **Nested** [DAJ07, ELVE07, FCB02, LJSM08, MM09, RAB07]. **Network** [MK02b, RCT07, XS07]. **networks** [KF06, LMK03]. **Neumann** [APQ03, GP04, GK04, Gui03, HW05, Hel09a, NR01, Poz01b, SDS07, TB00a, YLA08]. **Neural** [MK02b]. **neuronal** [RCT07]. **neutral** [BBK06, CDV05, GWF+07, GBS00, LCB04, TPR05]. **Neutrally** [PG02a]. **neutron** [BH05, FHJK09, Mac07, NU09, RW08]. **New-version-fast-multipole-method** [LCM07]. **Newmark** [CL07b]. **Newton** [Yan09, BB07a, Boy02b, CBKM00b, Cha07b, CZ09, HC05, KM00, KK04, KT07, MKR00, NOG08a, NOG08b, ORM06, SNGAS04, TWS02, YLD09]. **Newton-conjugate-gradient** [Yan09]. **Newtonian** [FS04, VBL04]. **NICAM** [SMT+08]. **Nicolson** [Han00, KW08a]. **Niño** [CC08a]. **nitride** [BMK+06]. **NMR** [KHV01]. **No** [SN08, HSC09, PK05]. **No-slip** [SN08, HSC09, PK05]. **Nodal** [GHW02, HW02, KWBH09, WPH00, GLMH09, GW05, JH06, Pon07b, WRu03]. **node** [KLP+09, MCGV04, WF06]. **node-centered** [MCGV04]. **noise** [BB04b, CBJdlC07, MSB07a, SMS08]. **Non** [BTW04, BS00a, BM01c, Dem04, GBS00, Hub07, KM07b, MKR00, NV09, SCT09, Tor03, Vas00, Yon01, Abg06, AB03, BFB08, BDRT09, Ber04, BdCB09, BCCD08, BSW05, BCI+08, CFS09, Cap08a, Cap08c, Cap09, CCV03, CN05, CEH09, CSL08, CS06, CS07d, CP08, DHOT09, DSM09b, DP07, DK07, DKTT07, FS04, FR03, GS06a, GT09a, GZ08, GGS09, GHB03, GN03, GT05, GWF+07, GYKL05, Hau08a, Hau08b, HMA05, HKG08, HAP05, HS06, HJJ09, Hu05, Hwa03, ISNY05, JJGL06, JJGL07, JA08, JSCZ08, JG09, KD09, KB04, KK03b, Kou09, KLSW09, LSA06, LVL05,

LMS04, LCCG05, MGS09, MJ06, MGC06, MG06, MG07d, MK03, NN04, OMK09, Pav07, PWM06, PK07, SBA07, SS03a, SAK05, SSB07, SLV09, SB06c, SE04, SZ05, STZ07, TWM07, TT05a, Tok06a]. **non** [TT05b, TB04, TPR05, VMN07, VBL04, VZSL07, WT07b, WSYS09, WC07, XHC08, YKG04, YA05, YS06, YH07b, ZSWW03, ZIP06, ZWS06, ZT03]. **non-aligned** [GYKL05]. **Non-autonomous** [BM01c]. **non-conformal** [LMS04, VZSL07]. **non-conforming** [CCV03, CEH09, SB06c]. **non-conservative** [DP07, KD09]. **non-convex** [HJJ09]. **non-diagonal** [WC07]. **non-dispersive** [MGS09]. **Non-equilibrium** [MKR00, BSW05, GT09a, GT05, JSCZ08, JG09, MK03, SSB07, WSYS09, XHC08]. **non-Gaussian** [HMA05]. **non-graded** [MGC06, MG06, MG07d]. **Non-homogeneous** [KM07b, FR03, SBA07]. **non-hybrid** [BFB08]. **non-hydrostatic** [SE04]. **non-hyperbolic** [Hwa03]. **non-inertial** [PK07]. **non-isothermal** [DHOT09]. **Non-iterative** [Yon01, OMK09]. **non-Lagrange** [VMN07]. **non-linear** [BDRT09, BdCB09, BCI$^+$08, CFS09, Cap08c, Cap09, CN05, Dem04, GZ08, Hau08a, Hau08b, MJ06, TT05a, TT05b, WT07b, YKG04, YH07b]. **non-linearly** [Tok06a]. **non-local** [KB04, LSA06, Pav07]. **non-matching** [JJGL06, JJGL07, LVL05]. **Non-Monte** [Dem04]. **Non-negative** [NV09]. **Non-negativity** [SCT09]. **Non-neutral** [GBS00, GWF$^+$07, TPR05]. **non-Newtonian** [FS04, VBL04]. **non-orthogonal** [LMS04]. **non-orthogonality** [SS03a]. **Non-oscillatory** [BTW04, BS00a, Hub07, Abg06, BCCD08, CP08, DK07, DKTT07, HAP05, TWM07, ZSWW03, ZWS06]. **non-overlapping** [LVL05]. **non-parametric** [Kou09]. **non-periodic** [GHB03, LCCG05, SAK05, SLV09]. **non-polynomial** [YS06]. **non-radially** [KLSW09]. **non-reactive** [HS06]. **non-reflecting** [AB03, GN03, NN04, PWM06]. **non-smooth** [Ber04, CS06, CS07d]. **non-staggered** [CSL08]. **non-stationary** [GS06a]. **non-thermal** [DSM09b]. **Non-uniform** [Tor03, Vas00, Cap08a, HKG08, Hu05, ISNY05, KK03b, SZ05, STZ07, TB04, ZIP06, ZT03]. **non-unit** [JA08]. **non-viscous** [GGS09]. **nonaffine** [Ngu07]. **nonaffine-parametrized** [Ngu07]. **Noncompact** [GBGM01]. **nonconforming** [Fou06]. **Nonconservative** [Wu01, CR09, RBvdV08]. **nonconvex** [Ser09]. **Nondissipative** [KPP09]. **Nonequilibrium** [VDM$^+$02, KLM07, LRS07, Ols07]. **Nonhomogeneous** [FP02, GC01, FG04, FG05]. **Nonhydrostatic** [Bon00, SMT$^+$08, GR08, MM09, SK08b, SW08c]. **Nonlinear** [AL01, BR01, BC01, Boy02b, CKF02, CSP01, CRD02, DZ00, FGG01, FT01, Gla01, GPL05, GLLN09, HZ02, IKS01, KLN$^+$01, KK00b, KJ01, Kul01, KT00a, LMSW02, MF01, Mav02, Nie01, PR01a, Saf02, SKAS01, SGG$^+$04, Sti02, TS01, WK01b, YL01, de 00, ARRS09, AMH04, AKV06, AMXL09, AG08, BHS03, BFT07, BFT09, BN04, BB09a, BS06b, BG05b, CHL06a, CL08a, CHL09, CBJdlC07, CK03, CL06b, CC03, CCJ07, CLS09a, Chu09, CFJ09, DH07, Doh09, DKTT07, EKBL09, Fan08, FT05, FL07, FWR07, FG07, HZ08, HK08c, HL06b, HyLL07, HLL08, HWWL09, HC05, JTL09,

KSH+06, KLSW09, KT07, LZT09, LSY04, Low04, LL08b, Ma05, MY06a, MKOW04, MY09, MESV09, MT07b, Mou04, Nas08, NPC09b, NF09, NL09, OCFF08, PSD09, RSSL09, RGK07, Sac07, Sau04, SS07c, SP05c]. **nonlinear** [TTZ03, TWM07, WFTS05, Wan05, WKL07, XS05b, XHW07, XG09, YM07, YLD09, ZJS08, Zhe06, Zhe07, vdVX07]. **nonlinear-multigrid** [HWWL09]. **nonlinearity** [LY07a]. **Nonlinearly** [LAS01]. **Nonlocal** [BZB00, FS00a, FS00b]. **Nonmonotone** [SL07c]. **Nonorthogonal** [LP02, FT05]. **Nonoscillatory** [JMP02, TH01, WC01, WH02]. **Nonparabolic** [Rom02]. **nonparabolicity** [WHLL03]. **Nonparametric** [Mac00]. **nonreacting** [DBS06]. **Nonreflecting** [AGH02, Ata04, Giv01, Gro00, GK07, RC00, AG08, Zhe06]. **Nonseparable** [TNR02]. **nonsmooth** [FCJ08a, FCJ08b]. **nonspherical** [DTS05a, DTS05b]. **Nonstationary** [IKL+08]. **nonstiff** [CR07]. **Nonsymmetric** [DF00b, JHZ+09]. **Nonuniform** [GZ01, HLS02b, HA02, LLQ+02, MN02, LG05, Rem06, SS09a, VB08, WA08]. **norm** [SVH+06]. **normal** [ND04, RMB07, TW05, TR07]. **normalization** [Tow09a]. **normalize** [Hag07]. **normally** [NTB07]. **normals** [FB08, RMB07]. **Note** [Ano03y, Ano03z, Ano08-51, Del01, DF00b, Poz01b, Wu02, Ano07-32, GXW07, GJK09, GS03c, TL06, UYK+04]. **Notes** [Ber06a]. **Novel** [BU02, DC01, DSS00, EG08, FH00b, YCL05, BAMD07, FGP08, LSA06, LL04b, LNXNTX09, MvW08, Pap08, SLC07, dSMF09]. **nozzle** [CGH05]. **NS** [WLC+06]. **Nuclear** [Saf00, BDR+04, KP07, PGB05]. **null** [CEL06]. **Number** [AKY01, Cor00, DKX01, FH00b, FG02, HT00b, LLIK01a, MP02, MHS02, MPC02, NTYT02, Nic00, PW01, SBGK00, SSD00, Tol02a, WPM02a, ZRR00, Ano04z, BDHN09, BDR+04, BTW03, CLB08, Del07, DBBP08, DDH05, DST07b, Heu03, JS05, KKM08, LG03a, sLwG08, LM08c, MT03, MDR07, NMM+07, NMH+07, OTCM08, PPDM08, RE07, RB09b, SM06a, SFMP06, TSG+06, TMD+08, VK05b, XH03, XP04b, XLP05]. **Numbers** [AC01, BEPT09, CTS07, DKS+03, HY09, HY11, KPB08, Lee07b, OVG07, SDGX07, Vik03]. **numeric** [HBHS09]. **Numerical** [ART02, ART04, ACS00, ACLS03, APQ02, BS04a, BSW03, BJM03, BLW04, BL09a, BST01, BMRS01, BCG09, BCR04, BA03, BS01, BRL02, BPL06, BS06b, Boy02a, BC02b, Bur05, CPR05, CFA01, CHH06, CD04, CP03a, CBJdlC07, CGRGV+04, CQO04, COV04, CWL08, Cle00, CL03b, CB09, CF04, CkM07, DW00, Dar00b, Del07, Den07, DJ04, EPW08, EE08, Eld07, Eli03, FLG01, FT05, FSB01, FP02, FLM08, FCB02, GMD03, GGS09, GS02, GK01, GLS03, GPH+01, GP00b, GC02b, HLFB07, HMM02, HK02, HF01, HPZ01, HL07c, HSL08, HLWW04, HLWW06, HWW07, IG05, IM05, JLCD01, JWSC00, JW02, JMZ04, JHB+09, JS05, KP07, Kan02, KSH+06, KAIN01, KSW07, KLM07, KMS04, KJ01, Kro02, LCB04, LP00, Lem00, Lin02, LGK06, LOK05, LP04b, LP02, LCdCN+03, MR00, MCCT02, MRRS05, MC09, Men04]. **Numerical** [Mie00, MY06c, MC00b, MLS+05, NS04, NLT08, Nys02, OKL01, OL01, PSCB08, PD01, PSCQ03, PR01b, PIN09, PWS+02, PCCD00, PO01, Pud06, Ram03, RCT07, RRC05, RGS04, RRL01, RXH02, RFVP09, Saf02,

Sai02, SZ01, SLY02, San01, SJ04, SK08a, SB09, SL04, SFVK06, SSND03, SSC00, SKW05, Sus06, TS01, Thu08a, TRSK09, Tok06a, TC01a, TCM+00, TdAAP08, TE04, TV08, TPVG06, VC03, VR02, VPA02, VQSZ02, WHLL03, Wee02, Whi00, WO05, WO09, WB01, XMT06, XG09, YM07, YFLS06, YVD00, YE05, dWKL07, vBRK01, vZS07, vdBG09, AS03a, APP+07, AK07, Ano04z, ACR08, AMP09, AM05, BL04, BW06, BCL06, BY07, Bar04, BFT07, BFT09, BV05, BDGL05, BLM08, BWLM09, BCM09, BBCT09, BW07, BP07, CLB08, CRAG07, Cec05, CMG09, CMP07, CHG+07, CP05, CM03]. **numerical** [CHCOB09, CC04, CP04c, DMHP07, DSJ03, DLD08, DWC+09, DF04, DHM07, DLW04, Eld08a, FDD07, FR03, FPT05, FF03, FD09b, GCGE03, GS07, GR04, GCLB04, GKL03, HK06, HKM08, HP04a, HKG08, HS03a, Hoh06, HM04, HL05, HM05, HLRZ06, HPS+06b, HMR08, IKS+09, JD04, JW03, JS07, KK03a, KW08a, KK05c, KK05d, KH07, KDF07, KSJ03, Kro01, Kry04, KN04, Lar07, Lau04, LMV04, LDN04, LSA06, LKE04, LG07, LZ09c, Liu08, LL08a, Low05, LQ06, MM07, MCM04, MLSD07, MTWW06, MC06a, ML08, MT04, MWG+06, MSB07b, MGNB09, NG06a, NTB07, OPML07, OCFF08, PDHP07, PC08, PM07, PSMW09, Pro05, QKS06, Ram06, Ren07, RSW06, RMG+09, Rom07, Ros09, RS09b, RV07, SB06a, SM09a, SDGX07, SROCFF03, SKS08, SFDL07, SW08a, SSB07, SMS08, SW04a, SD05b, SP04, SP05a]. **numerical** [Shi07, SS06b, Sme06, SP06a, SFMP06, TMS06, TM07, TWM07, TW07, TG06, Tsy03, UL06, VVM05, VSV03, VGBZ09, VGL+07, VBL03, VBL04, WT07a, WB09a, Wen07, Wen09, WMH07, YXLF05, ZSW03, ZSWW03, ZWS06, ZZ08, ZT03, ZD08, dSMF09, VBJ08a]. **Numerically** [WDM01, RV09, Wag05]. **numerically-induced** [RV09]. **Nunziato** [AW04]. **NWP** [Thu08b]. **Nyquist** [KP08]. **Nyström** [FWW04, HyLL07, TC07b].

OBC [Ano07-27, Ano07-28, Ano07-29, Ano07-30, Ano07-31, Ano08-34, Ano08-35, Ano08-36, Ano08-37, Ano08-38, Ano08-39, Ano08-40, Ano08-41, Ano08-42, Ano08-43, Ano08-44, Ano08-45, Ano08-46, Ano08-47, Ano08-48, Ano08-49, Ano09-49, Ano09-50, Ano09-51, Ano09-52, Ano09-53, Ano09-54, Ano09-55, Ano09-56, Ano09-57, Ano09-58, Ano09-59, Ano09-60, Ano09-61, Ano09-62, Ano09-63, Ano09-64, Ano09-65, Ano09-66, Ano09-67, Ano09-68, Ano09-69, Ano09-70, Ano09-71, Ano09-72]. **Object** [DPRS01, QRHD00, RFFP06, TZL05, ZSC08]. **Object-Oriented** [QRHD00, RFFP06, ZSC08]. **objective** [MC03]. **objects** [AvdB04, ADR08, IQT08, LZH+06, RW03, TC09b, Xu08]. **observables** [JLOT05b, JLOT05a]. **Observations** [KS02a, CHM08, HM08, KYK07]. **observer** [BCI+08, VS07]. **obstacle** [FNS07, GG04, Lee07a]. **Obstacles** [Pai01, BG09, KS09, TC07b]. **obtaining** [GWF+07]. **Ocean** [Ano08-50, Bla00, DOWB01, Hig02, KN09, MR01, SM09b, HHPW08, Hig05, Jan08, Ler06, PHW08, SP06a, Wea09, WDÖ+03, WAH09, WdND06, dNWvSD07, dTWD09]. **ocean-climate** [dNWvSD07, dTWD09]. **Octant** [MY07]. **octree** [HH07a]. **odd** [RVM07]. **odd-even** [RVM07]. **ODE** [HR01].

ODEs [CPKW09, Tok06b]. **off** [GGS09, MT07a, SZB+07, Vil08, YFLS06]. **offsetting** [Jia07]. **oil** [LCH03]. **One** [BMRS01, CWT00, DMG00, Del01, FSY00, GKE04, LT09b, MR00, MR02, PL01, QLK07, RB06, SFY01, VD00, VC00, VS02, ZQ09, AB03, ABK09, AI09, BTW04, BFT07, BS04b, Bil05, BDCG03, Boy03, CGSR08, CC07, Cho05, CR09, DT04, DBTM08, FS09, GM04, Gos04, GM06, HH07b, HZ08, HAP06, HGB+03, LKX04, NFA03, QS04, SR09a, SKWN03, SK04b, WO05, Xia04, Zhe06, HA02]. **One-** [LT09b, BTW04]. **One-Cell** [VC00]. **One-Dimensional** [BMRS01, CWT00, DMG00, Del01, MR00, MR02, PL01, VS02, GKE04, QLK07, ZQ09, AB03, ABK09, BDCG03, CC07, CR09, GM04, Gos04, GM06, HZ08, HAP06, HGB+03, NFA03, QS04, SKWN03, SK04b, Xia04, Zhe06]. **one-fluid** [LKX04]. **one-parameter** [CGSR08]. **One-sided** [RB06, HH07b, SR09a]. **one-step** [DT04, DBTM08]. **One-Way** [FSY00, SFY01]. **onset** [CGM07]. **onto** [NTB07]. **Open** [Liu09b, SS07c, BP06, BTC05, BF07, CZVS04, JR03, JR04, LZ09a]. **open-channel** [CZVS04]. **Operator** [KLN+01, KK00b, PRT00, Spo00, TK04, BG05a, CWJ07, CFR08, DD05, DWC+09, FL09, IAT08, KJ09a, KK07, Lab09, PAD07, PC06a, RS05, RS09a, RBK09, SRM09, TBT+09]. **operator-stable** [PC06a]. **Operators** [Edw00, Her00, Lem00, MHS01, NR01, BO04, DK06, Gra06b, Her09, Heu03, LM08b, MN04, MN17, RS05, RS09a]. **Optical** [BV00, GHV00, Lin01, Whi00, BBD04, FH03, KM03, KNH05, MWM08]. **Optics** [Gos02, OCK+02, CQRW05, JW06]. **Optimal** [BHS03, BC08, CHG+07, CKL00, FH02, HZ07b, HN03, IF09, KFIG06, KMA+01, MO06, NvL03, WR09, BHNPR07, CBGI09, DCF+08, FLB03, HH08, HAP05, Liu08, MG05a, NL08, Pee03, PSM08, PRL03, SY09b, TW05, TR07]. **optimality** [PVR07]. **optimisation** [Pro03]. **Optimised** [Kim07]. **Optimization** [CD00, HGM+00, IFZ01, JK02, KMS02, MK02a, OS01, RBSL06, SSSWD00, SKK+08, TWM07, TSG02, TS07, AS05b, AJT04, AA06, BP09, BP04a, BTWGvBW07, CKvT07, DCF+08, DAJ07, FLB03, GKJW07, GJK09, Ham07, HSBG05, HE07, HS09b, LTWW07, LLC+08, LTM09, MS08a, MC03, MD06, Pir07, PL08, Pro08, SHA08, TW03, WLKW07, YMW06, ZL08b, MS08a]. **Optimization-Based** [KMS02]. **Optimized** [AZ03, BS09a, BM05, CL01b, HB05a, SHWW00, WC01, ZT07b, MTWW06, PSG05]. **optimizing** [Hab04]. **optimum** [LT09a]. **Orbit** [YMF01, PH09]. **orbital** [Küm04b, LZ07, SLG+03]. **Orbitals** [GM01c]. **orbits** [KG03, SNGAS04]. **Order** [AC00, ACY00, BS00a, BISS01, BRL02, BK01, BSB01, CL01a, CKGL02, Coe02, CR00, CSP01, DV02, DZ00, DLS+00, FT01, FT09, GC01, GFCK02, GHW02, Giv01, HLS02b, HW02, KC00, KB01, LP00, Lai02, LS00, MC01, NR01, Nic00, NC01, Nys02, OGV02, PKP01, PM00, QS02, SLY02, TK00, TX00, TS01, TS02, VCP00, Vas00, VG02, WH02, XCZ02, XK01, YP01, YL01, Zha02, ZS01, de 00, AM03, AM04, AV05, APTJ+04, APP+07, Ain04, AMR06,

AV03, AG09, AC09, AB05b, AT05b, BS04a, BC05, BKST09, BGN07, BFT07, BFT09, Bea08, BC08, BBMB07, BRC+09, BdCB09, BLM03, Boy06, BSW05, BGLN05, BH04, BHP07, BL03, CT09, CVB06, CP03a, Cap08c, Cap09, CT08a, CC03, CP04a, CC07, CS07a, CKG04, CS06, CS07d, CRB+08, CR09, CFP06]. **order** [CBS05, CF04, CFJ09, DT04, DSM09b, DPRN05, DC07, DBBP08, DTMS06, DR09b, DDFT09, DK07, DET08, DZ09b, EKBL09, FNS07, FRS08, FB08, FOLD05, FD07, FR03, FK09b, Fox08, Fox09, GPC07, GG04, GH08a, GSV09, GGF03, GF05a, Gir06, GN03, Gom08, GR04, GBS06, GP05, GHMP07, GLT07, GL08, HH07b, HMOG08, HWL08, HH08, Hau08a, Hau08b, HMPR07, HAP05, HAP06, HJJ09, HMMR04, HMMO05, HJM07, Hub07, HB05b, IX09, IM07, IQ08, JH06, JD09, JBF07, JMC03, KSO+05, KKM08, KE06, KCGH07, KZ04, KT06, KK05a, KK05b, KPB08, KLK08, KYK07, Kok09, KT05, KPP07, KPP09, KB06, Kri07, KWD07, KQW03b, Lab09, LL09, LSD07, LM08a, LTZ03, LG04, Li08a, LSZZ08, LN09, LF05, LRZ04, LCS09, LS09, LF04, LB03b, LCdCN+03, MZ08, Mai09b, Mai09a]. **order** [MS03, MRS09, MvW08, MN06, MY06b, MG07a, MP05, MOG09, MG06, MG07d, MG08, MC07c, MHPR08, MPFC08, NLF03, NPH09, Nas08, NM06, NOG08a, NOG08b, NPC09a, NPC09b, Nis07, NPPN06, NXS07, NF09, NGvdWS09, ODAF07, Ols07, Ols09, PKD07, PP04, PRL03, QW05, QA09, RP08a, RRW05, RDPN07, RH05, SZ08, SGFL09, SDM04, SM04, SPM03, SFE07, SMB09, SZC09, SS05a, SZS03, SZ05, STZ07, SY03, SP05b, SCW+09, SGG+04, SL06, SP06b, SRX07, Sus03, SN06, SCN07, SN08, TMS06, TM07, TLAD04, TWYC06, TFD06, TCN09, TD07, Tol07, Tol08, TB04, VGCN05, VWW04, Wan04a, Wan04b, WL06, WM07, WSYS09, WZ09, WGRA09, WD07, WZ07, Wen07, Wen09, WA08, WAH09, WMH07, XS05a, XS06, XCRX08, XS05c, YMT+04, YC09a, YC09b, YP06, YHSX07, YS07a, Yeh07, YBZ06, You06]. **order** [YZW05, ZKDT07, ZL04, ZP05, ZJS08, ZJ09, ZW04, ZT03, Zho07, ZZFW06, ZYHS07, vZdBB07]. **Order-** [FT09]. **ordering** [NL08, SNLS03]. **Orders** [GST02, MBM01]. **Ordinary** [MOvL00]. **Ordinates** [Coe02]. **Organic** [deM02, Lap03]. **organism** [LB03a]. **organization** [FY07]. **orientations** [LR07]. **Oriented** [OV00, QRHD00, BTWGvBW07, RBH03, RFFP06, ZSC08]. **origin** [CL07b]. **origins** [Lyn08]. **Ornstein** [KP04]. **Orr** [GFR09, Meh04]. **Orthogonal** [AJG01, Tót02, XCZ02, Bia03, CRB+08, LMS04, Nik06, ZJW06]. **orthogonality** [SS03a]. **Orthotropic** [LLN00]. **Oscillating** [OKL01, DGH08]. **Oscillation** [OF02, CJSS08, KLK08]. **Oscillation-Free** [OF02]. **Oscillationless** [XY01]. **oscillations** [BPM06, CBC09, Gos04]. **oscillator** [LTD+06]. **oscillatory** [Abg06, BTW04, BS00a, BCCD08, CP08, DK07, DKTT07, HAP05, Hub07, TWM07, ZSWW03, ZWS06, HGM+00]. **Osculatory** [BR01]. **Osher** [FSS03, LBV00]. **osmotic** [WWC07]. **Ostwald** [Hor06]. **Other** [Boy02b, MR03]. **Out-of-Core** [TR02a]. **Outflow** [Eli02, Eli07, FGP08, HAS05, HEN09, MJ07, SAK05]. **Output** [MPP01]. **Outputs** [VD00, VD02, VD03]. **Outstanding** [SS01b]. **Overdetermined** [Boy02b, Str07a]. **overfilled** [Woo06]. **overlap** [SB06a]. **overlap-like**

[SB06a]. **Overlapping** [PW00a, WZ00, BSKH07, BHS09, DTMS06, HS03a, HS06, HS08a, KZ06, KP05, LVL05, Li08a, Liu05, TZL05]. **Overlying** [Str01b]. **overmoded** [LKD04]. **Overset** [BE02, FS04, SS05a, TJS03]. **overset-grid** [TJS03]. **overtopping** [LTD04]. **Overview** [OF01]. **Oxidation** [GR01]. **oxide** [GIA+07, GIA+08].

P [Gon07]. **package** [DFG+06]. **packed** [CLL07a]. **packet** [BS04d, BS06a]. **packings** [DTSC04, DST07a]. **Padé** [WH02, CDI09, Lur07, SFY01, WH02, You06]. **Padé-Gegenbauer** [Lur07]. **Padé-Type** [WH02]. **pages** [DKX01, HT00b, LLIK01a, MP02, MPC02, NTYT02, PW01, SBGK00, Tol02a, ZRR00]. **pair** [CHPR09]. **paper** [Aza09]. **Papers** [Ano00q, Ano00r, Ano00a, Ano00b, Ano00c, Ano00d, Ano00e, Ano00f, Ano00g, Ano00h, Ano00i, Ano00j, Ano00k, Ano00l, Ano00m, Ano00n, Ano00o, Ano00p, Ano01g, Ano01h, Ano01i, Ano01j, Ano01k, Ano01l, Ano01m, Ano01n, Ano01o, Ano01p, Ano01q, Ano01r, Ano02a, Ano02b, Ano02c, Ano02d, Ano02e, Ano02g, Ano02h, Ano02i, Ano02j, Ano02k, Ano02l, Ano02m, Ano02n, Ano02o, Ano02p, Ano02q, Ano02r, Ano01a, Ano01b, Ano01c, Ano01d, Ano01e, Ano01f, Ano02f, Ano05s]. **Parabolic** [RR02, SPW+00, ARRS09, AKV06, BR09a, GK03, HJ09, JH08, MP08, RSTB03, SK05, UPKN09, ZWS07, ZSP08]. **paradigm** [CBGI09, GK05, LSW06, OK06b, SW04b]. **Parallel** [ABHT03, BADG00, BLW01, BD01, CWWZ00, CP06b, CP06c, CGSS00, DPR00, DSB06, GTD00, GTD01, GW02, HS08a, KP00, LJ09a, MC04, dlFMBdlFM02, Mu02, PM00, QRHD00, RXH02, TZ03, TZL05, WZ00, ABZ+08, BPS03, BBW06, BCM09, BDS07, BUEG06, CTW+08, CCV03, CHB09, CWD08, CLS09b, EHST03, EHS+08, FHD+09, FMD+09, GHB03, Gib04, HVAC09, HC05, JA08, KSHS08, KKD08, KS07, LHR+07, LSS+09, LLRP09, LQ06, LZH+06, MC06a, MMKP08, MG05a, MC09, MC03, ML04, PSCB08, PPCW06, PLS+09, QFR04, RKE+07, SWB+06, SDR07, SLG+03, SA06, Tol07, Tol08, TDGP06, WGSL06, WZ03, XDB09, YYT05, ZH09]. **parallel-wall** [BBW06]. **parallel/recursive** [Gib04]. **parallel/unstructured** [LZH+06]. **parallel/unstructured-multigrid** [LZH+06]. **Parallelization** [DDK06, FS00a, HJFW04]. **Parallelized** [OMK09, ZWL02]. **parallelizing** [WE05]. **paramagnetic** [KHdT+08, KM08b]. **Parameter** [Zad08, BV05, CGSR08, DR09a, FP08b, LJSM08, Sha05, TW03, vdDA06]. **parameterization** [CHG+07, LTWW07]. **parameterizations** [DAJ07]. **Parameters** [GST00, HFO01, AB05a, BLW04, EN06, KFIG06, Kou09]. **Parametric** [Mac00, XS07, BMN05, BGN07, BGN08, BBK07, Kou09, LRMB08, SK07a]. **Parametrized** [Pop00, Ngu07, Ngu08]. **Parasitic** [JTB02]. **Paraxial** [QS01, DDGS09, GS09a, GGRS08, QL04]. **parity** [VBJ08a, VBJ08b]. **parity-mixed** [VBJ08a, VBJ08b]. **Part** [CC07, CFGK05, CY05, FCGK05, HdGKG08, HT03, IX09, KM07b, KK05c,

KK05d, LG09, Lio06, NMM+07, NMH+07, PFSL07, SFDL07, SD05a, SD05b, TOZP03, Tol08, VBJ08a, VBJ08b]. **Partial** [AGT02, ABGV02, BCOS01, CKL00, FDK06, Hua01a, MF01, PCS+09, VB00, AGT05, AL06, Asl04a, BV05, CGP05, DI09, GBS06, KFIG06, LP04a, LCdCN+03, MK08b, MSO04, Ngu07, Ngu08, RBvdV08, RM08, SS08, SRNV07, XLS09a, YZ07, YZW05]. **Partially** [PWM06, Kwo08, MD04, Zad08]. **Particle** [AL01, Azm02, Bal02, BZ08, Bow01, CVB00, CPK02, CL01c, CSP01, CB02, ELC02, EFFM02, FPC+00, FR02, GVT01, HKKS+01, iI02, KB00, Lap02, LM01, LDL+09, LK01, Par02, PM02, PH09, PPCW06, PFB01, QRHD00, RH01b, SSW01, Sni01, SPC01, Ver01, VCTS02, WK01a, WLC+08, Wea09, WHV+00, ZF02, ZKK01, ASPB03, AWK07, AMP09, ADR08, BST03, BZ04, BHR06, BOT05, BB09b, BB08b, BB09c, CGSR08, CL08a, CPKW09, CFL+03, CL08c, CP03c, CP07, CL03b, CEL06, DMHP07, DL03a, DFV08, DZ09a, DST07a, ECL02, Eld07, ESE07, FS09, FKV08, FHLO08, FHD+09, FHLK05, Fox08, FG06, FM06, GS09b, GK02, HGBH03, HD07, HNF07, HJKO08, HK05, HK08b, HK08c, HX05, HS04, HT03, HDR+06, HRV08, HS07b, HHM04, IITV07, JH06, JD09, KZWY09, KFV07]. **particle** [KP05, LJM+06, LGKP07, LK07, LMX+08, LWDA09, LZ09b, LZ09a, LM03a, LDW07, LKO05, LMH07, MP07b, MP08, MC06b, MCP03, MHW05, NBLQ09, NLLE06, NFA03, OK06b, PK05, PMP08, QFR04, SS09b, SWB+06, SWG08, SB06b, SSB07, SK08a, SK07b, SBC04, TOZP03, TM05, TMSW07, TKH09, TU04, VHI05, VHI06, Wal03, WYS09, WGCR07, ZK04, ZH04, ZP05, ZIP06, ZB07, ZL09, ZKS+09, ZZ09]. **particle-continuum** [SB06b, SSB07]. **Particle-Field** [SSW01]. **particle-flow** [AMP09]. **Particle-In-Cell** [Lap02, Bow01, CB02, LDL+09, Par02, QRHD00, Sni01, SPC01, PPCW06, CP07, FHD+09, FG06, GS09b, HDR+06, IITV07, JH06, LWDA09, OK06b, QFR04, SK07b, WGCR07]. **Particle-Laden** [WK01a, JD09]. **particle-level** [TU04]. **particle-localization** [HNF07]. **Particle-Mesh** [FR02, LK07, LKO05, SWB+06, Wal03]. **Particle-Particle** [FPC+00, TKH09, Wal03]. **particle-solid** [HS04]. **particle-source-in-cell** [JD09]. **particle/finite** [ZH04]. **particle/finite-volume** [ZH04]. **Particles** [AKV00, Gut00, HHL00, ADS03, AGW07, CGL08, DTS05a, DTS05b, FM04, GH09, Hew03, JVVS07, KHdT+08, KMSH08, LK09, LKMK09, PH06, SK08a, SP04, SKW05, VMN07, VK05b]. **Particulate** [GPH+01, BCM09, DM03, DGMN03, FM05, LM03b, LMK09, Mar09, PH08, RMG+09, SP05a, Uhl05, WT07a, YSW06, YS07b]. **partitioned** [BNV08]. **partitioning** [MG05a]. **parts** [MN04, MN17]. **passivation** [GKJW07]. **passive** [BS06a, RSM05]. **Past** [HGM+00, PW00b, PW01, CHBS04, DCK08, GPH+01, JD04, KR09a, MAL09, Pai01, SLC07]. **Patch** [SKR06, KPP09, PDHP07, SO08]. **patch-based** [PDHP07, SO08]. **patch-refined** [KPP09]. **patches** [CLS09b]. **Path** [PWW00, Sto07, BLL03, CLMRP08, CM06, Wea09]. **path-consistent** [CLMRP08]. **pathological** [LJ09b]. **paths** [Liu08]. **Pattern** [HKV01, WWVG00, MWM03]. **patterns** [LT09a, SM09a]. **PCICE** [Ber06a].

PCM [FWK08]. **PDE** [CFS09, EV03, FSS03, FP08b, GS03a, HMR08, PBH04, Pro08, SBA07, SPLM09, TCO+04]. **PDEs** [AC00, ACY00, BMRS01, BMRS02, DGRS08, Dri02, JW09, Kro05, PL08, Ram06, RSTB03, RMO00, SV07, VBJ08a, VBJ08b, YBZ06]. **PDF** [LM03a, MCP03, AJ09, BFB08, CP03a, CRAG07, JPMC01, JML+01, LM01, LLRP09, MPC01, MPC02, RJ06, ZH04]. **Péclet** [MHS02]. **penalization** [CBGI09, KDK+07, KS09, LV07]. **penalty** [DDH05, DLD08, GLLN07, GLLN09, HH08, JLL+06, PR06, Sha05, WG09]. **penalty-projection** [JLL+06]. **penetrable** [BG09, HB05b]. **penetration** [TU04]. **Perfectly** [DH07, Doh09, GGOB04, Hu01, Hu05, Kan02, RJ04, SP05b, Vay02, BFJ03, BHNPR07, CLL+07b, GKD09, HLL08, Nat06, OK07b, PL09a, Rah04, ST04, Zhe07, dHRvdB07]. **perforated** [ME09]. **Performance** [ABZ+08, LSS+09, Pir07, STD+05, SS01a, WPM+02b, CGMS03, CFR08, DSM09b, NZ07, OK07b, PAD07, QKS06, WdND06, XYK05, dHRvdB07]. **period** [AKH06]. **Periodic** [BC01, TB00a, ZF02, CdHST08, Dur08, EZ08b, FCT07, GHB03, HB05a, HHM04, JCT07, KMS03, KH07, KG03, LCG07, LCCG05, MKOW04, OJW06, ON08, SNGAS04, SROCFF03, SZB+07, SAK05, SLV09, vdV08]. **periodized** [KR09c]. **PERM** [MP08]. **permeable** [HST09]. **permittivity** [ZC09]. **Perspective** [ÉGP09]. **Perturbation** [LTZ03, UH01, ES03b, MDR07, Nic09, YHCD05, ZL04]. **Perturbation-based** [LTZ03]. **perturbational** [GB08a]. **perturbations** [CP03c, RV09]. **Perturbative** [NR01]. **perturbed** [AV03, CJR04, Jao07, LCW04, Moo07, SM06a]. **Petrov** [LSJA05, Ma05]. **Petviashvili** [LY07a]. **Phase** [AG09, BEA09, CFA01, ČPT01, Cha09, Cle00, EKK02, EF02, GS02, GW02, GW01, GP00b, JLCD01, MR00, MR02, MP01b, NDG05, OCK+02, PS01, SP00, WW00, WHV+00, Xu01a, YSC01, YZF+06, AW04, AMS03, BCB03, BFC04b, BIS07, BS03a, BJP04, CET09, CR05, CA06, CW08, CQRW05, CMR08, DM03, DDK06, DP07, DP08, DSS07, DS09a, DDS09, DLW04, EGHE06, EKP06, EKP07, FRS08, FYH+06, GFG09, GCNB07, GR07, GD07a, Her05, Her08, HZ07b, HA06, HA07, HA09, HWWL09, HH06, IKL+08, IOTK04, IS04, IH04, JLT06, KSO+05, KW03, LL05, LCB09, LMS08, LM03b, LHGF05, Low05, MR06a, Mar06, MKKY06, MR06b, MDS03, Mou04, MG05b, NMG09, OLA08, OK05, OKZ07, QS07, RMB07, RMG+09, RJM07, RMF08, RM07, SWK06, SY09a, SS06a, SYC09, SNLS03, SL07c, SB07]. **phase** [SXyWX09, SSH+07, TLK07, TMB07, TBT+09, TGB+07, TJLT08, XMT06, YZ07, YFLS06, YC06a, YC06b, YHCD05, YSS07, YF09, YE05, YZF07, ZDD09]. **Phase-Accuracy** [MP01b]. **Phase-Field** [GW02, MR02, BEA09, NDG05, YZF+06, BJP04, FYH+06, LCB09, RJM07, SY09a, SB07, TLK07, TBT+09, XMT06, YFLS06, YHCD05, YZF07]. **phase-lag** [MKKY06]. **phase-screen** [DS09a]. **Phase-Space-Based** [OCK+02, CQRW05]. **phase/vapour** [BW07]. **Phenomena** [BMS00, BP09, HGBH03]. **Phenomenon**

[PD01, Boy05b, DMG04, JS07, Lur07, SBA07]. **PHOENIX** [BvdHKG07]. **phonation** [LMZ+08]. **Phonon** [GT09c, VP00, GS05a]. **Photon** [Cul01, Bar04, BS07, Cha07a, DMBS05, FEL+05, WMH07]. **Photonic** [CD00, DGP00, SP05c, DD05, DBB06, ON08, YLA08]. **photonics** [DH07]. **photothermal** [CR08]. **Phys** [ABRR09b, CL08b, DD03a, HMS08b, HY11, HLWW06, JJGL07, Lau06, LM03a, MKM04, MN17, Mil07, SM09b, SCC+03a, WZL09b, dTWD09]. **PHYSALIS** [HT03, TOZP03, PO01]. **Physical** [BBR01, FLG01, Hu01, AS03a, JLOT05b, JLOT05a, KDOO05, MR03, MK04b]. **Physics** [GTD+02, MKR00, CP06b, CP06c, LL07, MK03, PNMK09, RWMK03, SHPC09, YKK08]. **Physics-Based** [GTD+02, MKR00, MK03, PNMK09, RWMK03]. **PIC** [ADS03, CN08, CK07, GCLB04, HKM07, HM09, Hew03, Kwo08, Lar03, SHPC09, TPR05, TS07]. **Piecewise** [BSP06, CS08a, KKGL01, SPW+00, UPKN09, BAYZ08, BMDS05, ET06, GR04, Lab09, LTL+09, TLL+08, WA08, YJ06]. **piecewise-linear** [GR04, Lab09]. **Piecewise-polynomial** [CS08a]. **piezoelectric** [LTL+09]. **pinch** [GGS09]. **pinch-off** [GGS09]. **pinching** [YFLS06]. **pinching-off** [YFLS06]. **pinchoff** [NS04]. **pinned** [VCG03]. **pipe** [MT03, XLP05]. **Pipelines** [DC02]. **pipelining** [FHD+09]. **Pitaevskii** [BJM03, CORT09, CJK+03]. **planar** [APP+07, AH08, CJR04, JOS06]. **planar-symmetric** [CJR04]. **Planck** [BC02b, DDFT09, FP02, Lem00, PRT00, CBKM00a, CBKM00b, Den07, DWLM09, KB04, LC03, UL06, WO05, WO09, XCRX08]. **Plane** [Dar00a, MM01, Mie00, PG02a, PC02, BO09, DVHM05, Gab07, KMS04, SL07c, Woo06]. **planning** [CM06]. **Plasma** [CYKC01, DGH02, GBS00, GVT01, HHCL01, HMM02, hLA01, OL01, RXH02, DMR09, DNS08, GHB03, GLS03, Hag07, HLS06, HDBW05, HF08a, Hum05, KSHS08, Kwo08, Lar03, LDL+09, MT07a, Mot08, NC04, OK06b, SDD07, She08, SL03, SK07b, SS04, TPV07, TPR05, VTC+07, WH05, ZK06]. **plasma-vacuum** [KSHS08]. **Plasmas** [Cul01, HKKS+01, OMG02, SUW01, BvdHKG07, CDV05, CF04, DSM09b, GWF+07, GGOB04, GLN06, GYKL05, GLT07, GL09b, HDR+06, LCB04, LL08b, MD04, MSP+06, PPCW06, SG06, XCRX08]. **Plastic** [GF02, HB02, Hun01, MC01, VQLZ04, ZVQ07]. **Plate** [BISS01, CHBS04, FKK08, LWW04, YKG04]. **plate-mantle** [FKK08]. **Plates** [SCD00, GA09, JA08, LSJA05, MC06b, ME09]. **Platform** [DPRS01]. **Plentiful** [CHM08]. **PLIC** [LHGF05]. **PML** [LZC04, Rah04]. **PMLs** [QT08]. **POD** [BC08, BBI09, CBS05, SK04a, SKXK05]. **POD-assisted** [SKXK05]. **Point** [Bar02a, Par02, SMP01, TB00b, VDM+02, WLE+00, AFGM07, BM05, CP03a, CWJ07, CWYM08, DVHM05, Eg07, FP08a, KK07, MDM03, PHKF06, Tan05b, WG08, ZZVM08, dSM05, dFJS09]. **Point-Centered** [SMP01]. **Point-Set** [TB00b]. **points** [BCEG07, HAP05, LC06b, SY09b]. **pointwise** [SB06c]. **Poiseuille** [DKS+03, PG02a, Sie00]. **Poisson** [WO05, WO09, And09, AMLC08, BR01, BC02a, BC05, BJ09, BD01, BZ09,

CGMS03, CSS00, CDV07, Dys01, GS06a, GFCK02, GM06, GBGM01, GS09c, HPS06a, HZ02, IKS+09, JM05, Lai02, LLY05, LFK00, LW07, ML05, MP01a, MP02, MCGV04, Mil08, MGC06, NLLE06, PB00, Poz01b, SSN09, SBCL06, VVM05, WWC07, WZ09, Zha02, ZS01]. **Polar** [CSS00, CL02, Lai02, MC00b, SR09a]. **Polarization** [CD00]. **polarized** [GCW07]. **poles** [BM05]. **Pollutant** [ZKK01, BES07]. **Pollution** [FCB02, SD00]. **Poloidal** [BT07a, BT07b]. **Poloidal-toroidal** [BT07a, BT07b]. **poly** [GIA+07, GIA+08]. **polycrystalline** [CP05]. **polydisperse** [LMV04]. **Polygonal** [WS01, GL08, LSSV07, LSV09, LS05b, YS08, ZL08a, dVGLM09]. **polyhedral** [AS07, BAYZ08, CT07, LSS06]. **Polymer** [GIA+08, AKH06, CFM09, CKPW07, FT06, HLFB07, LMK03, LWF+08, SXyWX09, VC03, YFBH07]. **Polymers** [FS00b, SK06]. **Polymorphic** [GLMH09]. **Polynomial** [DGF09, ABHT03, BS06a, Boy05b, CS08a, JS07, LX09, MN09b, PW07, QM03, RM07, SZ05, WK05, XK03, YS06, ZL04]. **polynomials** [Boy04, LBS+04, SR09a]. **polysaccharides** [TLAD04]. **pom** [APP+07]. **pom-pom** [APP+07]. **poor** [FRS08]. **population** [CPKW09]. **Pore** [ZF02]. **Pore-Scale** [ZF02]. **poroelastic** [BQQ09]. **Porosity** [JWSC00, JW02, JW03, RC06]. **Porous** [CS01c, CS00, Str01b, WLE+00, ZF02, AT09, BW07, CP05, CDE06, GZ09, GH08b, HJ09, JLT06, KT07, LTZ03, LMS08, LH05b, LJ06, MZ08, MJT06, MP05, NL08, PC06a, RGS04, RC06, RM07, TJLT08, YE05, Zad08, ZL04]. **posed** [Meh04, Rah04, vdDA06]. **position** [Che04]. **Positive** [Jan00, LL03c, San01, BD06, CKLS05, EZ08a, ML06b, Waa09]. **positivity** [AB05b]. **post** [RC09b]. **post-processing** [RC09b]. **Posteriori** [MPP01, Dwi08, Ngu07, SVH+06]. **Postexposure** [Li01]. **Potential** [HSK00, KT07, PC02, PO01, ABK09, BEE06, CS05, Del07, GD07b, HB05a, JR03, JR04, KW08a, KJ09b, MG07a, Mil08, NG06a, NLT07, OLLL03, OCFF08, Sac07, SCT06, SB09, YCL05, YF09]. **Potential-based** [KT07]. **Potential-Theoretic** [HSK00, HSQ03]. **Potentially** [CH01]. **Potentials** [HAAO00, CB07, HO08b, SH07b, Tau07, VB08]. **Potts** [VCG03]. **Powell** [HCG01]. **Power** [SM04, GB08b, Mil06, Mil07]. **power-law-like** [Mil06, Mil07]. **powerful** [Sau04]. **powers** [Boy09]. **pp** [Aza09, SM09b]. **PPM** [CS08c, SWB+06]. **PQM** [WA08]. **Practical** [Hua01a, Abr06, LC06a, Yok07]. **precipitation** [TMSW07]. **precipitator** [LWW04]. **Precipitators** [BISS01]. **Precise** [BCGR05, KW08a]. **Preconditioned** [DMG00, Hua07, MVD04, MG02, AMLC08, BPS03, BH04, CP06b, CP06c, HLY09, HC05, Lee05, Lee09, LZH+06, MYW07]. **preconditioner** [AHPT07, APT09, EHST03, EKP07, GGMN+09, GT05, Gri09, KSO+05, Lab09, LSS+09, RWMK03, RKE+07]. **Preconditioners** [BFG08, BT09, CdHST08, EHS+08, GH03, STD+05]. **Preconditioning** [Azm02, Ben02, DD09, Gla01, Hel05, HC08, MKR00, SC01, Yam05, HO08a, IF09, LZL03, Lee07b, MY03, MK03, NOG08a, PNMK09, PPB09]. **Precursor** [DW09]. **predictability** [CC08a, HMA05]. **Predicting**

[CSC+08, CGM07, LSK06, MS08b]. **Prediction** [CKL00, KIHM09, SMS08, APP+07, CC08a, HL04, Ler06, Löh04, Lyn08, NLT08, PGN08, SW08c]. **predictions** [EHD08, HPD09]. **predictor** [CPKW09, CMSZ09, LRS09, TWYC06]. **predictor-corrector** [CPKW09, CMSZ09, TWYC06]. **predictor/multi** [LRS09]. **predictor/multi-corrector** [LRS09]. **Preface** [Kou08, OKV07, OT01]. **Prefactored** [Hix00, AZ03, PSG05]. **Preliminary** [DP00]. **premixed** [MMPB07, vdBG09]. **preprocessing** [SK04b]. **prescribed** [Xu08]. **Presence** [CS00, AV03, HP04b, LSK06, MLFG06, PIN09]. **Preservation** [Car01, BD08, IS04, MY07, SCC09]. **preserves** [CS08c]. **Preserving** [BS00a, CRB00, CL01b, DDSV09, LW01, RM01a, SH07c, TR02b, TS02, AS05b, AT08, AB05b, AMSZ03, AMS04, BLM08, BD06, CGL08, CS09, CLS09a, CDV07, DT04, JW06, Kok09, KWD07, KSW03, LFS07, LS05a, LLZ07, LW04, MS03, ML08, MOG09, PSG05, QM03, RGK07, SLV09, VV03, Wen06, XP04a]. **Pressure** [AMLC08, BT02, Cod01, JL02, LLIK01a, LLIK01b, MD01, Pet01, SS02, AMH04, CSL08, EZ08a, GR07, GS09c, JL04b, KIHM09, MTV08, MB04, MDS03, NVD05, NMS07, Pap08, Pon06, RVM07, RVDM09, Ros03, SAM05, Utn08, vBK03]. **Pressure-Based** [MD01, SS02, MDS03]. **pressure-corrected** [MB04]. **pressure-correction** [MTV08, RVM07, RVDM09]. **pressure-invariant** [vBK03]. **Pressure-Poisson** [AMLC08]. **pressure-velocity** [Pap08]. **pressure/density** [Ros03]. **primal** [AAC07]. **primitive** [BG07, CTT08, HHPW08, IHL03, KSO+05, PHW08, SHTB09]. **primitive-equation** [PHW08]. **primitive-variable** [SHTB09]. **Princeton** [KN09]. **principal** [LM08b]. **Principle** [Rom02, SSSWD00, Abr06, KSS09, MGS09, SPGR06]. **principles** [WD07]. **prior** [RBT03]. **priori** [KK09, Ryc05]. **priority** [Pau07]. **probabilistic** [FWK08]. **Probabilistically** [ABLS05]. **Probability** [Pop00, MJ07]. **Problem** [AKV00, AQV02, BS00b, BSB01, CSV00, Del01, FS00b, IYI+02, IFZ01, KLvBvL02, LR01b, MPP01, MM01, MN02, Mit00, Poz01b, PG02b, Stu01, TK02, WB01, Abr07, Abr09, AW04, BL09a, BBD04, BFC04a, BCE+09, BTT08, Bia03, BO04, BEA09, BP04b, CFS09, CT08a, CDR09, CMG09, DB04, DHM03, GH03, GF05a, GKL03, HEN09, HZ07b, Hoh06, KH09, KNH05, Lee07b, Lee07a, Lee09, LS07, LSS06, MRRS05, Meh04, Mil08, NLT07, QCGQ03, RVM07, SWK06, SL04, SY09b, Sou09, SRX07, TPV07, VP09b, XSG04, YYF09, YE07, dVGLM09]. **Problem-Independent** [BSB01]. **Problems** [Alb00, AL01, ADK00, ADK02, BR01, Bar02b, BMR01, BCOS01, BS01, BK01, CWT00, CM00, DCS00, DKX00, DKX01, DFT01, FGG01, GP00a, GK01, HAAO00, HFO01, Kan02, KJ01, LLH02, LTZ02, MR00, Man02, NC01, OKL01, OS01, PR01a, PL01, RW00, RRL01, ST01, VG01, VSMW01, ZRR00, AE03, AM03, AM04, Abg06, APTJ+04, ABLS05, ARRS09, AFGM07, ACR08, AG09, AQ07, BS04a, BB08a, BDRT09, BBD04, BFC04b, BBMB07, BHNPR07, BM05, BF08, Bey09, BS07, BG05a, BS05, Bor07, BSLN09, BLM03, BG05b, COV04,

CT04, CC03, CBGI09, CELS07, CS08a, CXZ09, CS07c, CHG+07, CS06, CS07d, CT07, CFJ09, DPRN05, DPRN06, DIL03, DT03, DG09, DR09b, EZ08b, Eg07, FM04, FF03, FCGK05, Gab07, GZ07b, GT05, GN07, GM04, GP05, GK04].
problems
[GL08, Hab04, HJ09, HO08a, Hel09b, HMMR04, HY09, HY11, HF08b, IG05, JBHK08, JVVS07, JLT03, JH08, JC06a, JC06b, KP07, KK03a, KW08a, KZ04, Kau03, KEB+07, KFV+05, KS08b, KKO04, KPP07, KSS09, KS07, Lap04, LSA06, LZL03, LZ09b, LCW04, LHZW05, LDW07, LNXNTX09, Low05, Ma05, MTV08, ML05, MS08a, MMS04, MR07a, MNR07, MN09b, MSO04, MY06c, MR07c, MG05b, NPH09, NU09, ND04, NG06b, NL09, ON08, ODCK07, Ovt08, OMK09, Pap08, PS03a, Pir07, PSM08, RMGK04, RCB05, RDPN07, SKR06, SLV09, Shy04, SC09a, SL07c, SM06b, SHPC09, SPLM09, SN06, TWYC06, TD07, Tor03, TB04, TY07, UBRT07, VGCN05, VK05a, VSH04, VZSL07, WFTS05, XMT06, XHW07, Yam05, YAvdB+08, YH07a, YCL05, YJF+06, YZW07, ZG08, ZSP08, vOP04, vdDA06].
Procedure [DIV00, JK00, FDD07, LP06b, MKKY06, Mil05, Mil06, Mil07, ML06b, SHPC09, UL06, WYS09, XMT06]. **procedures**
[BNV08, Cam03, CTW+08, Hua07, Roy05]. **Procesi** [FL09]. **Process**
[JK02, LRN+02, Li01, Cam03, GS03b, KK05d, LL03b, LLTA07, YKK08].
Processes [LBD02, AT09, Chr04, FLB03, KMV03, Lau06, MDJS07, SS06b, SL06, VSV03, VK04]. **processing** [ALT08, FSS03, RC09b]. **processors**
[GD08, KWBH09]. **produced** [KFH+04, KFIG06]. **product** [Gel06].
production [IR09]. **Products** [CSV00, DP07]. **Profile**
[YXU01, LMK09, UYK+04]. **profiles** [CP07]. **Program** [BSJ01, WBM09].
programming [CVE06, DTSC04]. **Progress** [Jan08]. **progressive** [CF06a].
Projected [SWTM01]. **Projection** [AGP01, AP02, BJ00, BJ02, BCM01, CM00, ERT02, GQ00, LKNG01, LRN+02, LMS02, LB03b, MC00a, TC01b, VSMW01, WGCE01, AV05, GBC06, Gri09, GF05b, HO03, JLL+06, KKM08, LRZ04, Löh04, MZ08, MCG08, MG06, MK07, Ni09, PFSL07, SFDL07, SB06c, TC07a, Utn08, Vos06, XSL09, YP06, YSS05, ZP06]. **projection-type**
[Löh04]. **Projections** [SS01a]. **Projective**
[KEB+07, SDD07, GK03, RMGK04]. **Prolate** [Boy04]. **Prolongation**
[TR02b]. **proof** [Bea08, Boy06, KS08b, WZ07]. **Propagating**
[SFW00, AS03b, BBF+08]. **Propagation**
[BM01a, Dur00, ERT02, FT01, GHV00, GKL00, HHCL01, HK02, LL00, LMSV00, MN02, MHS02, Noe00, RTT01, Wee02, BP09, BG05a, BS06a, CN08, CHG+07, CBI+04, DNS08, DS09a, DDGS09, EV03, FCJ08a, GD06a, GGOB04, GGRS08, HLS06, HSQ03, HPS+06b, KT06, Lau04, LNGK04, LKNG04, LK07, LTE07, MN06, MHI08, MR04, Pir07, PSG05, RBL04, Ros06, Shy06, Thu08a, Tok06b, Vol04b, XS07, ZB07]. **Propagational** [CSV00].
Propagator [WH05, IH04]. **propellants** [SMGJ09]. **propelled** [HK08b].
proper [CRB+08]. **Properties**
[JMP02, KMJ01, Per00, Saf00, Saf02, Vas00, ZSP02, BIS07, Ber06a, GMH06, HR07, Jor07, LKE04, NE05, Pir06, RH05, SW08b, SVB09, VBL07, XLM07].

Property [VS02, WP09, XS05a]. **propulsion** [SMP09]. **PROST** [RR02]. **protein** [GPVB07, MSP+06, XJ07]. **Proteus** [FM05]. **Protoplanetary** [dlFMBdlFM02]. **Prototypical** [VR02]. **provable** [GGF03]. **Pseudo** [Gom08, KvdVvdV06a, WPH00, HSBG05, HL07b, KKS05, SO08, THL06, YYT05]. **pseudo-compressibility** [KKS05]. **Pseudo-spectral** [WPH00, HL07b, THL06, YYT05]. **Pseudo-time** [KvdVvdV06a]. **pseudo-timestepping** [HSBG05]. **Pseudo-wave** [Gom08]. **Pseudopotential** [CWWZ00]. **Pseudospectral** [BRB03, KT05, BS08a, BM05, BS05, Boy03, Boy04, BP04b, CB03, LT09a, PSD09, SZLW06]. **PSM** [ZWS07]. **Publisher** [Ano03y, Ano03z, Ano07-32, Ano08-51]. **pulsating** [HAP06]. **Pulse** [HHCL01, XS07]. **Pulses** [SFW00, Sau04]. **pure** [BACFT05, De 04, NDG05, YU05a, YSO07]. **pure-compact** [BACFT05]. **purely** [Jao07]. **Purpose** [DPCV02, ALT08, Kuz06]. **PVM** [dlFMBdlFM02]. **pyramid** [HLWW04, HLWW06].

QALE [YM07]. **QMR** [CP06c]. **QR** [Boy02b]. **QR-Factored** [Boy02b]. **Quadratic** [DDS09, Dur00, CHL09, CVE06]. **Quadratic-Finite-Element** [Dur00]. **quadratically** [Gon07]. **Quadrature** [DKTT07, SCD00, DFV08, FLM08, Fox08, Fox09, HWL08, HO08a, MRC06, NG06a]. **quadrature-based** [DFV08, Fox08, Fox09]. **Quadrature-free** [DKTT07, HWL08, MRC06]. **quadratures** [Chr03, DR09b]. **quadric** [TW03]. **Quadrilateral** [HLKS00, SCD00, TC01b, ZYC02, BMT09, DPRN06, KT03, KT05, MJT06, NE05, YSS05, ZSC08]. **quadrilateral-mesh** [ZSC08]. **quadrilaterals** [PR04a]. **quadtree** [Gre04]. **Quality** [CBH03, SMO00, CSC+08, KK09, RMV03, SDCC05]. **Quality-improved** [CBH03]. **quantification** [BPM06, CDE06, DEHL06, KG06, PDL09, YZL+06]. **Quantifying** [HMA05]. **quantitative** [GR04]. **quantities** [AS03b]. **quantized** [DJ04]. **Quantum** [DE02, GM01a, JMK01, Lin02, MESV09, MK04a, RS02, dFGLS05, dFJS09, BP06, BMN07, BCCV09, BNNP06, CL05, CL08d, CLL+07b, DDD05, DGM07, DDDC07, HLWW04, HLWW06, HWW07, JSCZ08, JN07, Kar04, KLW09, LYC09, NTO+07, PA05, PVR07, Ram03, SB06a, SHY07, TW03, VTW+07, Vos06, WBM09, YHSX07]. **quantum-classical** [BCCV09]. **Quantum-corrected** [dFGLS05, dFJS09, CL08d]. **quantum-mechanical** [DDD05]. **Quartic** [SKAS01, WA08]. **Quasi** [CK08, CDV05, MY06a, MOvL00, QS01, VD00, AI09, BS04b, DT03, EZ08a, FHD+09, FHLK05, Gla05, HH07a, LCB04, LL09, MPD03, DDS09, Yeh07]. **Quasi-** [QS01]. **quasi-elliptic** [DT03]. **Quasi-equilibrium** [CK08]. **quasi-geostrophic** [MPD03]. **Quasi-monotonic** [Yeh07]. **Quasi-neutral** [CDV05, LCB04]. **Quasi-One-Dimensional** [VD00, AI09, BS04b]. **quasi-positive** [EZ08a]. **quasi-spectral** [LL09]. **quasi-static** [FHD+09, HH07a]. **quasi-steady** [Gla05]. **Quasi-Steady-State** [MOvL00]. **quasicontinuum** [KLP+09]. **Quasihyperbolic** [PS02]. **Quasilinear** [LAS01]. **Quasineutral** [LJM+06, CDV07]. **Quasirandom** [AC01].

quenching [LLOT06]. **Quest** [Abg01]. **Queue** [JRS05, Pau07]. **Queue-based** [JRS05]. **QUICKPIC** [HDR+06]. **Quiet** [Pet07, SCW+09]. **QWalk** [WBM09].

r [MK08a]. **r-adaptive** [MK08a]. **R3M** [YH07b]. **Radial** [SUW01, TW03, CQO04, FW07, FP08b, HF08a, LJW07, MT07b, RA09, SC08a, TB09, WF06, Yin06]. **radially** [KLSW09, LLS09]. **Radiation** [BKR+01, DW00, DV02, HSK00, HG03, MKR00, SMP01, TSG+06, UH01, BKS07, BMDS05, BSP06, BSW05, BD06, Cha07a, Cha07b, DS05b, Dic08, DST07b, ED07, GT05, GCLB04, KLM07, KAS08, Lau04, LWG03, MR07c, MK03, OS04, Ols07, Ols09, RHPN09, RW08, RV07, SO08, dA04]. **radiation-diffusion** [OS04]. **Radiation-Hydrodynamic** [SMP01, SO08]. **radiation-hydrodynamics** [RHPN09]. **Radiative** [BS00b, DK02b, Gen01, KM03, LTK+02, CS03, DL04, DUEB07, EULM03, FDK06, FKLY07, KNH05, MHB08, MELD08, MU09, MAN+06, PS07c, Thö04, TFDK04, WHS08, WMH07]. **radiative-transfer** [DUEB07]. **radii** [CXB08]. **Radio** [HMM02, GGOB04]. **Radio-Frequency** [HMM02]. **railway** [LGN05]. **Raman** [BCG09, HS07b]. **ramified** [AST07]. **Random** [BJ00, BJ02, DDG02, FGOV00, FV01, LRN+02, ARRS09, AZ06, DGF09, DI09, DC08, FG05, GZ07a, GZ09, GS09a, KF06, KKS07, LLTA07, MZ08, MS04, Pet07, ST06, SRNV07, VSV03, WP09, XS09, ZL04]. **Random-Field** [FV01]. **randomized** [ZGSD06]. **randomly** [HLRZ06]. **randomness** [WB09b]. **Range** [FPC+00, BDS07, FT09, HPS+06b, LTZ03]. **range-limited** [BDS07]. **Ranges** [GST00]. **Rankine** [JR09]. **RANS** [KMID05, KAS06, LS02a, SRM09, Tuc03, WK07]. **RANS/LES** [LS02a, SRM09]. **Rapid** [Lau04, Saf02, hRT02, BGR08, GPVB07, Nic09]. **rapidly** [KB08]. **Rarefied** [FS01, Mac01, Myo01, AK09, BB09c, GC06, KAA+07, LZ04, Mac03, Myo04, SFX03, SBC04, VS09, VVS08, ZRS06]. **rate** [CMG09, OLA08, Tow08]. **Rates** [GGL+01, GP05, Oh04]. **Ratio** [AJG01, Car01, BJP04, JA08, LL05, LF04, YZ07, ZSC06]. **Rational** [PSD09, BM05, BRB03, Boy05a, CFJ09, ZC09]. **ratios** [DSS07]. **ray** [Min07, THN+07, RR07]. **Rayleigh** [CA06, GGL+01, TM05]. **rays** [MR06b]. **RBF** [SPLM09]. **re** [LZ09c, BEE06, KM06, KM07b, PWS+02]. **re-entry** [LZ09c]. **RE-squared** [BEE06]. **Reacting** [ML01a, CGP05, CP06a, DHM07, DBS06, FL07, LM04, MLS+05, NS05, SK03]. **Reaction** [BJ00, Li01, MOvL00, RRV01, SWL00, SSC00, DC07, ELW04, GC06, HK06, HMR08, LRS07, LLOT06, MJ09a, Mad06, MM07, MMKP08, MG07b, Moo03, Moo07, Pud06, RSO04, RS05, RS09a, STD+05, VSH04, XDC09]. **reaction-advection-diffusion** [Pud06]. **Reaction-Diffusion** [Li01, SSC00, LLOT06, MJ09a, Mad06, MM07, MG07b, Moo03, Moo07, RSO04, RS05]. **Reactions** [LX00, MEG02, SSC00, BCK09, KW03, OLA08]. **Reactive** [BM01b, HLZ02, JPMC01, MPC01, MPC02, dSAK00, AT05b, Bil05, BLM03, CFL+03, DGJ03, HS03a, HS06, LMS05, RP08a, TMSW07, dDEK09].

Reactors [PCCD00]. **Real** [Mit00, OB02, DDDC07, RBK09, SH07b, dWKL07]. **real-space** [dWKL07]. **real-time** [DDDC07]. **realistic** [CP07, FHJK09]. **realizability** [PSMW09]. **Realization** [ZSC07]. **recast** [MYW07]. **receptivity** [DS06b]. **Reciprocity** [GHG01]. **recirculating** [RMG+09]. **reconstructed** [VCG03]. **reconstructing** [YJ06]. **Reconstruction** [BISS01, DS08, HKS09, LS02a, RR02, SJ02, SR00b, ZC09, AS07, ÁDIM09, AMS03, AMSZ07, BO05, Bal09, Boy05b, Cap09, CR08, DDS09, GSB03, JS07, LSD07, LL04b, LHGF04, MP08, OK04, SGFL09, SAKDJ05, SS07b, TMD+08, VB09, XLM07, XLS09a, XLS09b]. **reconstructions** [MLFG06, TB06]. **Record** [SSSWD00]. **Recreate** [SSSWD00]. **rectangles** [Bia03]. **Rectangular** [BdLL01, SZ00, CN05, HK08a, KPK09, NMM+07, Ni09, PKD07]. **recurrence** [CL08a]. **recursive** [DSB06, Gib04]. **recycling** [LP06b]. **red** [LL06b]. **Redistancing** [CT08b]. **Redistribution** [RW00, AMS04, DG09, TLK07, TTZ03, WW04, WT07b, YT07]. **Reduced** [CKF02, CKPW07, DR09a, KG08, LP00, TLAD04, BKST09, BC08, CRB+08, CBS05, KT07, LP07a, LB03b, MG05b, Ngu07, Ngu08, PCP08, QA09, SVH+06, SK08a, YH07b]. **reduced-basis** [Ngu07, Ngu08]. **reduced-order** [BC08, CRB+08, CBS05]. **Reducing** [Vil08]. **Reduction** [hLA01, SD00, ACGV07, AG09, BPMR08, BTWGvBW07, CK08, DL03a, FK07b, GZ08, LD06, MN09b, MKL06, MV06, PS07c, RA09, RFVP09, VP09a, VK05b, ZSW07]. **Reference** [KMS02, PK07]. **Refined** [GW01, DP09, FHW07, Her08, KPP09]. **Refinement** [Alb00, AGT02, Bal01, DGH02, DI02, FH00a, AGT05, AEP04, BC05, BV05, BFG07, BL05, CR07, CBH03, CBI+04, CFJ06, FM06, HS06, HS08a, HG03, KAA+07, KPP07, LP04a, LL04b, LK09, MCGV04, MC07b, MHE06, PSCB08, PDHP07, PCP08, PL04, PC06b, RFFP06, SRX07, TFD06, TK04, YF09, dTDI+07]. **refinement-based** [CR07]. **Refining** [BH09]. **reflecting** [AB03, GN03, NN04, PWM06]. **reflection** [BS04d, Sof09]. **reflectometry** [dSHHM05]. **Reformulation** [iI02]. **Regime** [BJM02, BKR+01, BC08, GC06, LQ09, LD09b, RB09b, SKK+08, SE04, VLB09]. **regimes** [CGL08, FK09a, JD04]. **region** [BC08, HE07]. **Regional** [Ano08-50, Lap08, SDCC05, SM09b]. **Regions** [Bal02, CFA01, Cal02, MG07a, VRM07]. **regressing** [SMGJ09]. **regridding** [WAH09]. **regridding-remapping** [WAH09]. **Regular** [GC02a, LSSV07, YXLF05, dA04]. **Regularization** [Poz01b, BT07b, BHSV07, CT04, CCT05, MK08a, PBH04, SY09b, vdDA06]. **Regularized** [BOT05, ADE+08, CFS09, FP08a, GE07, Kry04, SDT08, TS08, WKL07]. **Regularly** [HM08, Moo07]. **regulation** [JR07]. **Reinitialization** [HMS08b, HMS08a]. **Related** [RMO00, ON08, RSSL09, RSS09, Tol08]. **Relation** [CL01b, LP01, CS09, CLS09a, KK09, LS05a, PSG05, Ros08, SLV09].

Relations [CL01a, SZ00, YJ06]. **Relative** [Cam03, RS02]. **Relativistic** [SZS01, BH09, BLG+08, DZ09b, FKV08, HJ07, HGB+03, KQW03a, KQW03b, MK04a, QW05, SK08a, SA09, ZSW03]. **Relaxation** [BR09a, BBR01, Car01, JP00, LP01, Pal08, BKS07, BN09, DP08, Del03b, Küm04b, LSL08, Low04, PFSL07, PA07b, RSM05, Ros08, SFDL07, SPB09]. **relaxation-projection** [PFSL07, SFDL07]. **release** [Oh04]. **relevant** [Vos06]. **reliability** [LXM09]. **reliable** [EN06]. **Remap** [ALGM01]. **Remapping** [DB00, NJX09, KSW03, LS05b, MS03, SPM03, WA08, WAH09]. **Remapping-free** [NJX09]. **Remark** [LS07, RS00]. **Remeshed** [CPK02, CFL+03]. **remeshing** [AZC05, BIVC07, MK08a, MV08, WG06, ZLAC05]. **removal** [LLB05]. **Removing** [HS08c, DL03b]. **renormalization** [HJFW04, Sti05]. **renormalized** [CMP07]. **repair** [LSW06, SW04b]. **Reply** [CKR01, LM03a]. **Representation** [AKV00, FF02, MR01, Sum00, BHP07, CCT05, DGF09, HW08, KAK03, SAKDJ05, TW05, TRSK09, TR07, WL06]. **representations** [SL06]. **representing** [BP08]. **repulsive** [ABK09]. **requirements** [MWM08]. **requiring** [BEPT09, SS09b]. **rescaling** [LLL07]. **research** [SK08b]. **reservoir** [LCH03, MC04]. **reservoirs** [SE09]. **reshocked** [LSD07]. **Residual** [Abg06, CRD02, DPRN06, LC01, RCD05, TS01, WB01, AM03, AM04, CS06, CS07d, EULM03, Nis07, RAD07, RB09a, Ros08]. **Residual-Based** [LC01]. **residual-distribution** [Nis07]. **Residuals** [Boy02b, CB07]. **Resistive** [CKF02, RVVL09, DZ09b, GTMC08, LTC07, ODCK07, PCP08, RSW06]. **resistivity** [GTMC08, HPS06a]. **resistor** [KF06]. **Resists** [Li01]. **REsolution** [KG09, Coe02, FCB02, GF02, GP00b, JK00, KB00, KT00a, KT00b, KMJ01, MWM08, MD01, Noe00, PW00b, PW01, SZS03, WPM02a, ZTZ02, ASPB03, BSKH07, BBCT09, BOT05, BTW03, CLG07, CC04, DE06, Del07, DDFT09, FF03, GLN06, GD05, HLS06, HH06, Jor07, JS07, Kou09, Kry04, KT04, LG09, LSD07, LNGK04, LYC09, LR03, MM09, OF06, SWK06, SYG06, SHY07, SJHM09, SL07c, TDWY08, ZW03, ZYHS07]. **Resolved** [DSS00, AMP09, Bar04, SMP09, TV08, WB09b]. **Resolving** [YT07, LTC07, NK08, SMT+08, SSW+07]. **Resonance** [OL01, GLS03]. **Resonances** [BP06, Lin02]. **resonant** [BNNP06, BS04d, DGM07, RMV03]. **response** [CDI09, HSZ04]. **responses** [WB09b]. **resting** [NLT07]. **restricted** [HST09]. **Restriction** [TR02b, KSGF09]. **restrictions** [KDW08]. **restructuring** [SS07b]. **Results** [OF01, SSSWD00, MPD08, NFvS+06, NDG05, VBL03]. **resumming** [LBS+04]. **resurrected** [HSC09]. **Retrieving** [LR01b]. **Revaluation** [IM07]. **reverse** [HS07a, RMGK04]. **reversibility** [DOW08]. **Reversible** [LR01a, RE07, PH09]. **Reversible-equivalent-monomolecular** [RE07]. **Review** [Roy05, FSS03]. **revised** [Wan04b]. **Revision** [Neo07]. **revisited** [LOK05, MC07a]. **Revisiting** [FLG01, Rid00, SD06, WE05]. **revolution** [FWW04]. **Reynolds** [Cor00, DKS+03, DDH05, FG02, MT03, NMM+07, NMH+07, OTCM08, OVG07, PPDM08, SDGX07, Vik03, XP04b]. **Rezone**

[KMS02]. **Rezoning** [Lap02]. **RF** [hLA01]. **Rheology** [LL06b]. **Rhonegletscher** [JHB+09]. **Richards** [ZSWW03]. **Richardson** [RB06]. **Richtmyer** [LSD07]. **Riemann** [AW04, BDRT09, BTT08, BZW01, BH05, CT08a, DP07, Del01, Geo08, Gui05, HAI09, iI02, KLLJ09, KSW07, KLvBvL02, LMS05, LP01, Li05, LS07, MN02, Mig07, Mil04, MK05, NK08, QCGQ03, RBT03, SWK06, SL03, SHTB09, TT06a, Tor03, TB04]. **Riemann-Problem** [KLvBvL02]. **Rigid** [Bus00, GPH+01, AMP09, BCM09, BGS08, CC08b, DMHP07, Eld07, Fas03, LKP06, San03, SP05a, TZL05, TLK09, TG06, VMN07, Vil08, WT07a, Xu08, vLAvdV06, vZS07]. **Rigid-Body** [Bus00]. **rigorous** [CY05]. **Rigorously** [OMG02]. **ring** [QFR04, SDT08]. **Rings** [MKM99, MKM04]. **ripening** [Hor06]. **Rising** [Dar00a, HL07c, HSL08]. **River** [SSL00]. **RK** [AHNS09]. **RKC** [VSH04]. **RKDG** [BAMD07]. **Robin** [BNV08, JZ08, LSA06]. **Robust** [Azm02, JWSC00, JW02, JW03, KLLJ09, KF06, MJT06, MG08, MLS01, BBI09, BB09b, CFR09, CL07a, CL08b, DCF+08, FK07a, FE04, HNF07, HM05, KK07, LH08b, MTV08, NLF03, SP06a, TAL09, VPMC04, vDZ06]. **Robustness** [Ber06b]. **rod** [BCZ04, HO06]. **rod-like** [HO06]. **rods** [GPL05, LN09]. **roe** [KD09, GV02, Jan00, sKKRH03, sLwG08, RBT03, RMF08]. **roe-average** [KD09]. **Roe-type** [sLwG08]. **Role** [AC00, ACY00, AGP01, Mai04]. **Root** [Bor00]. **ropelength** [MR03]. **Rosenau** [RV07]. **Rosenbrock** [DCS00]. **Rossby** [CF06a, SD06]. **rotated** [NK08]. **rotated-hybrid** [NK08]. **rotating** [AB07, BW06, BvdHKG07, FBHV05, GG09a, Gir06, PK07, SJ04, SS07a, VBJ08b]. **Rotation** [HGM+00, HF08a, LMN+09, YGL05, ZSC07]. **Rotations** [Bus00, BPO07]. **rotors** [EHD08]. **rough** [Nic09, TX06, WWC07]. **Roughness** [WWC07]. **round** [Vil08]. **round-off** [Vil08]. **Routh** [MD02]. **Rudy** [TK04]. **Ruin** [SSSWD00]. **rule** [dSM05]. **Rules** [ADK00, ADK02, HvHHS05]. **Runge** [AHNS09, Bal08, BP09, Boy05b, BSB01, CFR04, Dri02, HL06b, HyLL07, KCGH07, KHV01, KWD07, KDW08, LX07b, Lur07, QS04, QKS06, QLK07, Rei00, STR07b, Tan05a, ZP06, ZQSD08, ZQ09].

S [JTL09, LNXNTX09]. **S-shaped** [JTL09]. **Saffman** [FS06]. **Salpeter** [Mai03, Mai04]. **sample** [FHJK09, HMA05]. **sampled** [Mil05, TPVG06]. **Sampling** [Pop00, Cam03, CTW+08, KS08b, KLW09, Sto07, Wea09, vEB05]. **satisfying** [CkM07, KSS09]. **saturated** [AT09, GH08b, Vol04b, WGNT06, Zad08]. **Savage** [FNBB+08]. **scalable** [BP07, ZG08]. **Scalar** [BTFY01, CDKP00, GBGM01, TS02, WL02, BD08, BP03, CRAG07, FS09, GD07b, Hub07, IA06b, KI05, LY07a, LRMB08, LFX05, RSM05, RBS06, Ros09, TT05b, Asl01, Kuz06]. **Scalar-Tensor** [BTFY01]. **Scale** [AS02, ATV01, BADG00, CR02, EKK02, Gra06b, KS02b, LR01a, VG01, ZWL02, ZF02, AE03, AHF04, AC09, BBMB07, BJ09, BSW05, BTWGvBW07, HBLD07, JLT03, JLT06, JL09, KM06, KM07b, KCMM03, KE09, LZL03, MN09a, OK06b, OK07a, PKKL05, PM08, PS03b, RWMK03,

SHPC09, SK07b, UBRT07, VP09a, VK09, VTM+08, WL03]. **scale-invariant** [KE09]. **Scale-separating** [Gra06b]. **scales** [AKP07, ELVE07, JG09, Ngu08]. **Scaling** [PC08, Abr09, SLG+03]. **Scattered** [WF06, Dic08]. **scatterers** [DBF08]. **Scattering**
[Bal02, BK01, CY00, DDF01, DFT01, GK01, Gro00, Gut00, Lin02, Stu01, AL06, ACR08, AG09, BHL07, BL09a, BHNPR07, BA03, Bot06, BH04, CJSS08, CLLG09, CDR09, DH04, DWLM09, DBB06, DR09b, FNS07, FHJK09, FWW04, GG04, GH08a, GK04, GK07, Hoh06, HB05b, IQT08, LZL03, Lee07a, MR07a, Nic09, OMK09, SZB+07, TJ09, TC07b, TC09b, Woo06, YAvdB+08]. **scenarios** [SP07]. **Schedules** [FH02]. **Scheme**
[Abg01, BR09a, BW01, Bon00, BMS00, CBKM00a, CKR00, CKR01, DPCV02, GF02, HLS02b, HF00, KKR01a, Kul01, LBV00, LS02c, LC01, LM01, LX00, LW01, MP01a, MP02, MCCT02, MF00, MT01, MHS01, NTYT01, NTYT02, Nys02, OGV02, Ros00, SWL00, SZS01, Vay01, WH02, WPH00, Wee02, Xu01b, Xu01c, Xu02a, Xu02b, YP01, YL01, ZZ01, ZSP02, Zha02, de 00, vdSE00, AK06a, AT09, Asl04b, AM05, AB05b, AT05b, BS04a, BKS07, BMT09, BACFT05, BALW06, BAFL09, BF07, BG05a, BCCD08, BHvdV06, BN09, BM07, CFR04, CP03a, Cap08a, Cap08b, Cap08c, CFF07, CDDL09, CMSZ09, CL07a, CL08b, CHB09, CMG09, CS07a, CEH09, CSO09, CYS06, CL07b, CSL08, CS09, CSKD05, CDV07, DE06, DPRN05, DDSV09, DBBP08, DLD+06, DS06b, DZ09a, DGRS08, Edw06, FM08, FL06, FH07, GPC07]. **scheme** [GN03, GN07, GL09b, HLS06, HS03a, HHC08, HJM+05, HLY09, HH06, HGB+03, Hwa03, IM05, IKS+09, IA06a, IA06b, IAT08, IM07, IQ08, JAK05, KR09a, KN09, KOQ04, KH09, KL08, KK05a, KJ09b, sKKRH03, KK05b, KLLJ09, KPK09, KLM05, Lab09, Lar07, LK07, LD09a, LM03a, LF06, LLL07, sLwG08, Li08a, LLS09, LS05a, LLZ07, LYC09, Liu08, Liv07, LJ09b, LGM08, LSW08, LH08b, Mai09b, Mai09a, MTWW06, MY09, MY03, MG07b, MGC06, MC07c, MCP03, MPFC08, MVO04, MSB07b, Mot08, NSS03, Neo07, NMM+07, NMH+07, NJX08a, NI03, NN09, NF09, NS05, OX04, PKD07, PS07a, PH06, PH08, Pon07a, RLZ03, RS06a, Rom07, SBA07, SC08a, SJD05, SDR07, SVB09, SLV09, Ser09, SHWC07, SYC09, SY08, SA09, SCW+09, SB03, SC09b, SFMP06, ST03a, zSW06, zS06, SCN07, SN08, Thö04, TXCD07, TE08]. **scheme**
[TDGP06, TAL09, TCM05, TY07, UBRT07, VVM05, VU04, Vol04a, Waa09, WRu03, WZ09, WA08, WLC+06, XP04a, XH03, XMT05, YMT+04, YC09b, Yok07, YHCD05, YS07c, ZW05, ZWS07, ZSWW03, ZWS06, Zie04, VP09a]. **Schemes**
[AC00, ACY00, BS00a, Bar02b, BCVK02, Bla00, CL01a, CL01b, Coe02, CDKP00, CR00, CRD02, Del02, DZ00, DLS+00, EF02, FF02, FGG01, FSB01, FH00a, FSM+01, GC01, GC02b, Gui02, HL01, HT00a, HT00b, Hix00, JP00, JL02, JMP02, KT00a, KT00b, LP01, Lio00, MF01, ML01a, Mie00, Nic00, Ohw02, Per00, Pir02, QS02, RB02, SV00, SHS02, STiST02, TK00, TS01, TH01, TS02, Vas00, VG02, VS02, WC01, WB01, XY01, Yua02, AM03, AM04, Abg06, APP+07, AHNS09, AB03, AT08, AZ03, BTW04, BAMD07, Bal09, BRDM09,

BAR08, BES07, BLM08, BBMB07, BRC+09, BP09, Ber06b, BS03a, BR09b, BB04b, BBCT09, BP03, BL03, BD06, BK07, CVB06, Cap05, Cap06, CGMS06, CGL08, CET09, CLMRP08, CL08c, CJ09, CS06, CS07d, CP08, CZVS04].
schemes [DT04, DPRN06, DQ04, DJTT05, DK07, DKTT07, DET08, DBTM08, DZ09b, DOW08, Dwi08, EZ08a, EF03, ELW04, FDD09a, FDD09b, FK07b, FK09b, FW07, FMR09, GZ07b, GLM07, GSV09, GSV06, GGF03, GS03c, GS03d, HK06, Hei04, HAP05, HJJ09, HWWL09, Hub07, HWW07, JW06, JC06b, Jon05, JMC03, KCGH07, KI05, Kim07, KLK08, KPP07, KPP09, KQW03a, KQW03b, KT04, Kuz06, LSB04, LL09, LNGK04, LWW04, LFS07, LG03b, LG04, LJS08, LSSV07, LL03c, LW04, Liu05, LCS09, LD04, Mad06, MRS09, MSS08, NL08, NJX08b, NZZ06, Nis07, NPPN06, NXS07, NF09, OK04, OF06, PAD07, PK03, PYC04, PS04, PS08, Pir06, Pir07, PSG05, QS04, QS05, RBSL06, RP08a, RAD07, RB09b, RMF08, Ros09, RDPN07, Ros08, RS09b, SDM04, SGD03, SHA08, SD05a, SD05b, SYG06].
schemes [SZS03, SHY07, SZ05, STZ07, SS09c, SPGR06, SJC07, STR07b, SK06, Tak06, Tan05a, TL06, TFD06, TDWY08, TT04, TT05a, Tol07, Tol08, TT05b, THD09, Tor03, TB04, TA06, Tsu06, VTT08, VCZS04, WG08, WSYS09, WD07, Wel07, WAH09, WZ03, XS05a, XS06, XS05c, YMT+04, YC09a, YHSX07, YS07a, Yeh07, YMWM06, YS08, ZJS08, ZT03, ZYHS07].
Schmidt [JS05]. **Schrödinger** [BJM02, XS05b, AMR06, AB03, ABK09, BY07, BBDE05, BIS07, CCJ07, DE02, Dem04, Doh09, FCJ08b, GM06, HyLL07, HJL09, IKS01, JLOT05b, KLSW09, LTE07, LQ09, LW09, Nas08, RSSL09, Sac07, SCT06, SKAS01, SS07c, zSW06, zS06, XHW07, ZKL+07, Zhe06, Zhe07]. **Schrödinger-type** [XHW07]. **Schroedinger** [And09]. **Schur** [NPH09]. **Schwarz** [BIW08, CJSS08, HC05, ODCK07, PW00a]. **Schwarz-based** [ODCK07]. **science** [KG06]. **scientific** [Bra04]. **Scour** [DC02]. **scrape** [MT07a]. **scrape-off** [MT07a]. **screen** [DS09a]. **screened** [GH02, LJK09]. **Screens** [Kan02]. **Sea** [Hun01, LTD04]. **seamless** [ERVE09]. **search** [Pav07]. **searching** [Sus06]. **Searchlight** [BS00b]. **Second** [AT05b, BRL02, Boy02a, FB08, GC01, GFCK02, HLS02b, JLCD01, JTB02, JR03, JR04, KC00, KQW03b, LP00, MS03, Nis07, Ols09, PP04, RP08a, SPM03, TS01, VB00, YL01, AM03, AM04, AB05b, BS04a, Bea08, CP03a, CR09, DPRN05, GGF03, GHMP07, KSO+05, KK05a, KDF07, KT05, LSZZ08, LRZ04, MZ08, MvW08, MN04, MN17, MG06, MG07d, MG08, Ols07, SZ08, SGFL09, SP05b, SCW+09, SL06, Sus03, TMS06, TM07, YP06, Yeh07, YZW05, ZP05].
Second-Generation [VB00]. **Second-Gradient** [JTB02, KDF07].
Second-Order [BRL02, GC01, HLS02b, KC00, LP00, YL01, AT05b, FB08, KQW03b, MS03, Nis07, Ols09, PP04, RP08a, AM04, AB05b, BS04a, Bea08, CP03a, CR09, GGF03, MZ08, MvW08, MG08, Ols07, SGFL09, SCW+09, SL06, TMS06, TM07, YP06, Yeh07, YZW05, ZP05].
Second-Order-Accurate [GFCK02, DPRN05]. **sector** [Boy05a]. **sediment** [RF06]. **sediment-transport** [RF06]. **seeded** [LD09b]. **Segment** [ERT02]. **segmentation** [RR07, XCY06]. **segregated** [NVD07, Utn08]. **Seidel**

[ABHT03, CLS05, KK07, WGCE01]. **Seidel-type** [CLS05]. **seismic** [CFS09, CSMH05, HS07a, THN+07]. **selection** [HL06a]. **Selective** [BD08, LLB05, OL01, RMSB09]. **Self** [CBC09, OK06c, OL01, RHPN09, RV07, RMO00, SUW01, SCC+03a, SCC+03b, VP00, ZSTC06, BEA09, DAJ07, DS05b, FY07, HK08b, JRS05, MAN+06, SMP09, TSB03]. **Self-adaptive** [OK06c, DAJ07, TSB03]. **self-adjoint** [MAN+06]. **self-assembly** [JRS05]. **Self-Consistent** [SUW01, OL01, RHPN09, SCC+03a, SCC+03b, BEA09]. **Self-consistent-field** [ZSTC06]. **Self-Energy** [VP00]. **Self-Intersecting** [RMO00]. **self-organization** [FY07]. **self-propelled** [HK08b]. **self-propulsion** [SMP09]. **Self-similar** [RV07]. **Self-sustained** [CBC09]. **self-teleportation** [DS05b]. **selfadjoint** [Heu03]. **Semi** [BS03a, Bon00, FF02, GVT01, GBB+06, KWD07, KT00b, MELD08, NTYT01, NTYT02, RCB05, Str00, Str01a, Tol02a, Tol02b, WPM02a, WA02, XY01, XK01, BG07, BS08b, BLG+08, BRB03, BL03, CFF07, CFR09, Cha07b, CWL08, DF04, GHB03, GPF03, GGP06, GD05, HS08b, IX07, LS03, LQ09, LH08b, LLC+08, MBP07, NSS03, NZZ06, RBS06, ST04, SFMP06, TBT+09, TOY09, ZWS07]. **semi-circular** [GGP06]. **semi-classical** [CWL08, LQ09]. **Semi-discrete** [KT00b, BL03]. **Semi-Implicit** [WA02, Bon00, MELD08, RCB05, WPM02a, CFR09, Cha07b, DF04, HS08b, LH08b, LLC+08, MBP07, NZZ06, SFMP06, TBT+09]. **Semi-infinite** [GVT01, BRB03, ST04]. **Semi-Lagrangian** [NTYT02, Tol02a, BS03a, Bon00, FF02, GBB+06, NTYT01, Str00, Str01a, Tol02b, XY01, XK01, BG07, BS08b, BLG+08, CFF07, GHB03, GPF03, GD05, IX07, LS03, NSS03, RBS06, RCB05, TOY09, ZWS07]. **Semiclassical** [BJM02, DDD05, GM04, Gos04, GM06, JLOT05b, JN07, LW09, SY08]. **semicoarsening** [LLY05]. **Semiconductor** [DE02, JP00, KMA+01, MP01a, MP02, And09, BS04a, CGMS03, CGMS06, CBC09, CL03a, CL05, CLL+07b, FH07, KGJ05, LSS+09, SS08, VTW+07, WHLL03, dFGLS05]. **Semilinear** [Dri02]. **Semirelativistic** [GTD+02]. **Semtner** [MR01]. **sensing** [CLLG09]. **sensitivities** [FLE03, HPD09]. **sensitivity** [AJT04, BV05, BG09, LWG03, LP04a, NA08, PA07a, SDCC05, TMND07, VK04, WGNT06]. **sensitivity-based** [LWG03]. **Separable** [TNR02, KS07]. **Separate** [CFA01]. **separated** [KRT+09, Oh04]. **separating** [Gra06b, LG09, SPB09]. **Separation** [AD01, OL01, OMG02, NU09, SNLS03, SG03a]. **sequel** [Lio06]. **Sequence** [WWVG00, HK04a]. **sequential** [BPS03, KS08b, LCH03]. **Series** [Che00a, Che00b, CKGL02, CL02, VP00, BO05, BRB03, Boy09, CKG04, Fou06, KTD03, NU09, NCS03, TDV06, VCG03]. **SESL** [GPF03]. **Set** [Asl01, BCMO01, CMK+01, CBMO02, Cho00, EFFM02, HMS08b, KAIN01, KLvBvL02, LLdlP+00, OF01, OS01, OCK+02, PS01, SW00, Set01, SP00, TMB07, TB00b, AS03b, AS05b, AJT04, ÁDIM09, AA06, AHMS03, BHR04, BHSV07, COQ06, CM06, CT04, CBGI09, Che07, CCT05, CQRW05, CC08b, DMP08, DL03b, ETT05, GGS09, GCNB07, Hab04, HMS08a, HKO07, Her05, Her08, HK05, JVVS07, JCT07, KH07, LW07, LW09, LTWW07, LLC+08,

LTL+09, LTM09, ML06a, MS08a, MRC06, MR06a, MGCR07, Min04, MG07c, MG07d, MV06, NJLA06, NLT07, NT07, OK05, OKZ07, PHKF06, QL04, RR07, SS09b, SS06a, SYC09, Sme06, Spe05, Sus03, TZ06, TZ07a, TZ07b, TBJ+09, Tow07, TU04, UYK+04, WLKW07, WSTW09, WYS09, Wen09, XLLZ06, YS09, YSS05, ZGK09, ZLAC05, ZL08b, vdDA06]. **set-based** [TU04]. **set-boundary** [GGS09]. **set/ghost** [DMP08]. **set/volume** [YJL+06]. **set/vortex** [Her05]. **sets** [FSS03, GR08]. **Several** [ZDNP00, Ovt08]. **SGS** [NN09]. **Shadow** [IH04, ESD05]. **Shah** [ET06, RR07]. **SHAKE** [BLS08, Gon07, WE05]. **Shallow** [BC01, CX08, Che00a, FR02, Gir00, GHW02, Hor02, LBV00, LBV01, Lay02, LLIK01a, LLIK01b, Tol02a, Tol02b, TTSG01, VS02, Xu02b, ZCMI01, AB07, AB05b, BES07, BRC+09, BTT08, CVB06, CHL06a, CL08a, CGRGV+04, Che03, CLS09a, CZVS04, DJTT05, GPC07, Geo08, GPF03, GW05, GD05, HC08, KJ09b, KLM05, LHD05, LGHD08, LS03, LMNK07, Mea04, MGNB09, NI03, NPPN06, NXS07, RAD07, RB09a, SS03a, SHTB09, TOY09, VTT08, XS05a]. **Shallow-Water** [BC01, Che00a, LLIK01a, LLIK01b, Tol02a, Tol02b, Xu02b, ZCMI01, CHL06a, CL08a, CLS09a]. **Shape** [AKL+08, HS09b, LS02b, LTWW07, LTM09, PS03a, AS05b, ADR08, BG09, CKvT07, DAJ07, FP08b, Hab04, HPD09, HSBG05, HKO07, HWW07, LSSV07, LKMU05, LLC+08, TW03, WLKW07]. **shape-material** [BG09]. **shape-regular** [LSSV07]. **shaped** [BCDW06, JTL09, MTH08]. **shapes** [HKS09]. **shared** [HJFW04]. **shared-memory** [HJFW04]. **Sharp** [LKMU05, MKLU05, NLT08, SB07, UMRK01, YU05a, YS09, YSC01, FCD+06, GMD07, GCNB07, MDB+08, OSK09, SSH+07, TU04, UTBV03, WK06, YZW07]. **sharp-edged** [YZW07]. **Sharp-Interface** [YSC01]. **sharpening** [CET09]. **Shaw** [FS04, KW08b, LLL07]. **Shear** [ELW01, TC01a, BZ04, BCZ04, BIVC07, GH09, HO03, JOS06]. **Shearing** [LAS01, BM06]. **Sheet** [GC02b, LK01, Nit01, FM06, Her05, SDT08]. **Sheets** [Nie01, Alb09]. **shell** [CJ04, Liv07]. **shields** [BCM+07]. **shift** [HHMK05]. **shifted** [AHPT07]. **shifted-Laplacian** [AHPT07]. **shifts** [BM05]. **ship** [Wan05]. **Shock** [AS02, BSJ01, Boy02b, FSS03, Han01, Lio00, MC02, Pir02, STiST02, TNGH02, Tót00, VG01, Wu01, Wu02, AM05, BdCB09, CLMRP08, CC05, DLD+06, GA09, HMM08, HJJ09, KFH+04, KFIG06, sKKRH03, KLLJ09, KH08, LM08a, LSK06, LKY03, LRS09, Low05, Pir06, SB06b, SM05, Sur05, TDWY08, TY07, UTBV03, VS09, Vol04b, YT07, KKR01b]. **Shock-Aligned** [KKR01b]. **Shock-Bubble** [Han01]. **Shock-Capturing** [STiST02, TNGH02, Tót00, BdCB09, DLD+06, KH08, Pir06, TDWY08, TY07, UTBV03, Vol04b]. **shock-induced** [YT07]. **shock-stable** [sKKRH03]. **shock-tube** [Low05]. **Shock-Turbulence** [Pir02, CC05]. **shock-wave** [KFH+04, KFIG06]. **Shocks** [DCV+01, Sun00, YC02, DLT09, FL07, HP04b, IR09, JD09, MLM09, PFSL07, SPB09, SH07a]. **shooting** [ZK06]. **shoreline** [Che04]. **Short** [SFW00, CWL08]. **short-wave** [CWL08]. **shortening** [CFF07]. **shrinkage** [YZF07]. **sided** [HH07b, RB06, SR09a]. **sign** [MS03, SBA07]. **sign-preserving** [MS03]. **signal** [dSHHM05]. **signals**

[Mil05]. **Silicon** [GR01, Rom02]. **SIM** [NLT08]. **SIMD** [DPRS01]. **similar** [RV07]. **similarity** [SB06a]. **Simple** [Fre00, Kul01, Lai02, OF06, RM01a, SPB09, SZS01, STiST02, BP08, DFG+06, LL09, Mig07, NK08, RM08, Yok07, EKP07]. **Simplex** [COQ06]. **Simplicial** [Min03]. **Simplification** [Ber06a]. **Simplified** [FMO00, LTK+02, RLB02, FKLY07, KL06, VGCN05]. **Simulate** [DPRS01, HMM02, Chr04, EKP06, MV06, PSC04, Sam09, SLC07]. **Simulated** [PA00, Pav07, WGNT06]. **Simulating** [Alb09, BBF+08, Cho00, CR02, DLW06, GK02, HHL00, HDBW05, PR00, PK00, TS04, UMRK01, AGW07, BGS08, BIVC07, BB08b, Che03, DMHP07, DMP08, DP09, Dur08, GFG09, GSB03, GS05c, Gre04, Hua07, KS08a, Kwo08, LKE04, LLZ07, LF05, LKMU05, LZH+06, LZH+07, NZ07, VC03, VGZB09, VGBZ09, XW06, Xu08, YFBH07]. **Simulation** [ART02, ACK02, BM02, BST01, BHR03, BADG00, BM01a, BS01, BRL02, Bow01, Buc05, BMK+06, Bus00, CS01c, CGL08, ČPT01, CPK02, CYKC01, Cle00, DNS08, DF00a, DQA08, DGH02, DDGS09, EH02, FS01, FG02, GPH+01, GMAj09, HAAO00, Han01, HKKS+01, HK02, HF01, HB02, HSS07, HGM01, JLCD01, JWSC00, JW02, KB00, Kar04, KW08b, KAIN01, KP00, LBD02, Li01, hLA01, LP02, Mac01, MEG02, MSB07a, Mu02, NCS03, OL01, PG02a, Par02, PR01b, PFB01, PWS+02, PO01, QRHD00, RRL01, Rom02, SLY02, ST01, SSL00, SCW+09, SPC01, SB02, TSB01, TC01a, TCM+00, Vay01, VDM+02, Ver01, WPM+02b, WB01, Xu02a, ZKS+09, ZTZ02, ZP02, ZF02, ZTPM05, ZKK01, AH08, AR08, AMH04, ART04, AMP09, AT09, BS04a, BPMR08, BCK09, BP06, BWLM09, BA03, BS03b, BPL06]. **simulation** [BEA09, BGN03, BP07, Bur05, BB09c, CPR05, CGP05, CP06a, CBJdlC07, CPG04, CGRGV+04, CTW+08, CFL+03, CN08, CP07, CLL+07b, CMP07, CF06b, CSKD05, CL03b, CSML06, CB09, DSJ03, DL03a, DDH05, DS09a, DTS05a, DTS05b, DS09b, DCK08, ELVE07, EE08, Eld07, FP08a, FG04, FG05, FDD09a, FDD09b, FT06, FD03, FD09b, FLM08, FY07, FKK08, GMD03, GS09a, GGS09, GLS03, GIA+07, GBB+06, Gra06a, Gra06b, HBLD07, HKM07, HJKO08, Hew03, HHMK05, HK08c, HH07c, HF08a, Hor06, HM05, HSW07, HL07c, HSL08, HT03, HPS+06b, HMR08, HHM04, HLWW04, HLWW06, ICO04, JRS05, JLT03, JD04, JOS06, JW03, JMZ04, JHB+09, JS05, KHdT+08, KFIG06, KG06, KM06, KM07b, KFV+05, KDC05, KKS07, LJM+06, Lar03, LMV04, Lau06, LW06, LL05, LCH03, LLL07, LS08, LK09, LKW05, LP06b, LL06b]. **simulation** [LCNR07, LMH07, LWF+08, LDV08, LH05b, LQ06, MC04, MCM04, MLM09, MTWW06, MC06a, MJT06, Men04, MGS07, MR04, MHE06, MWG+06, MK04b, MHdB07, MGNB09, NLF03, NJLA06, NFvS+06, NC04, NB04, OK06b, PSCB08, PDHP07, PYC04, PM07, PL09b, PN03, PH06, Pet07, PWM06, PA05, PVPS09, Pro05, RB05, RRC05, RGS04, RMG+09, Rom07, RJM07, RFFP06, Ros09, Roy05, SM09a, SWB+06, SWG08, SW08a, Sch08, SMS08, SHWC07, SP04, SL04, SP05a, SFX03, Shi07, SMP09, SSND03, SGG+04, SMSS07, SK07b, TOZP03, TZ06, TZ07a, TB06, TSB03, TdAAP08, TPR05, Tsy03, Uhl05,

UPKN09, VTC+07, VS09, VGL+07, VK05b, WT07a, WLC+08, WFC09, WWK05, WMH07, XLP05, XG09, YM07, YB06, YWC07, YXLF05, YSS05, YF09, ZP05, ZSB+08, ZT03, ZW03, ZD08, dSMN+04, dCNHSD07, vdBG09]. **Simulation-Tabulation** [HGM01]. **Simulations** [ATV01, ALGM01, CS01b, CVB00, CTT08, CBL01, DW00, DKSW01, DE02, DPR00, FVOMY00, FPC+00, FLG01, Gen01, GLL03, HAP06, HPZ01, JML+01, KS02b, KK00a, KKC01, KK00c, Lap02, LS02c, LL06a, LLQ+02, ME09, PPC00, PW00b, PW01, RXH02, SSW01, Sun00, TMSW07, WGCE01, Yon01, dSAK00, deM02, AS05a, AZB09, AD03, AFGM07, ALT08, AD04, AGSX09, BLW04, BDR+04, BDGL05, BMN07, BBB08, BL09c, BDS07, BS09b, BTW03, CGMS06, CGN+07, CV06, CP03c, CELS07, CM03, CFGK05, CWD08, CK07, CHPR09, CP04c, CH08, DUEB07, DW09, DKS+03, DLD08, DZ09a, DJ04, EGHE06, Eld08a, ÉGP09, FHJK09, FPK08, FM05, FHD+09, FE04, FCGK05, GCGE03, GGF03, GGRS08, GCLB04, GS09d, HGBH03, HC08, HO06, HP04b, HM04, HS04, HLX06, HS07b, ID04, IK07, ISNY05, KM08a]. **simulations** [KMV03, KFV07, KH07, KSJ03, KZ06, LDN04, LMN+09, LWDA09, Li08b, LJ09a, Liu09c, LR03, LMK09, LL08b, MWM08, MG05a, MY06b, MP05, MKL06, MLFG06, MVO04, Mot08, MBP07, MMPB07, MO06, MAL09, NTO+07, NDG05, NJX08b, NLLE06, NS04, OLA08, ODAF06, OK07b, Pau07, QLK07, QLS09, RVDM09, RB09a, SMT+08, SG06, SGFL09, SE09, SK08a, STD+05, SA06, SFVK06, SL07c, SHP07, SSW+07, Spe05, SFMP06, TWM07, TBJ+09, TMD07, TGB+07, TG06, TDV06, TG04, VPMC04, VGS04, VK09, VCM00, VQLZ04, WL03, WTL08, WC08, WH05, XK03, XH03, YFLS06, YZLH09, YYT05, YZF+06, YZF07, ZGG03, ZVQ07, ZLAC05, dSHHM05, vZdBB07, vdV08]. **Simulator** [GW02, GC06]. **Simultaneous** [AKV06, DVHM05, HSBG05]. **Simultaneously** [DSS00]. **Sinc** [Eg07]. **Sine** [Mil05, Saf02, BRB03]. **Sine-fit** [Mil05]. **Single** [JK02, JD04, LW06, NMG09, PL09a, RSW06, RM07]. **Single-Crystal** [JK02]. **single-domain** [LW06]. **single-fluid** [RSW06]. **single-fluid-phase** [RM07]. **single-phase** [NMG09]. **Singular** [ACS00, AQV02, APQ02, CH01, LL01b, LTZ02, RW00, WPW02, ZS01, ACLS03, Boy06, DG09, HL07b, LH05b, Sac07, SY09b, TE04, WZ07, ZZFW06, dA04, dCNHSD07]. **singular-regular** [dA04]. **Singularities** [Mai01, MC00b, OKL01, Boy05a, Gro06, Gro07, HO08a, VRM07, YW07]. **Singularity** [Nit01, CSO09, LL06a, TPVG06]. **singularity-avoiding** [CSO09]. **singularly** [LCW04, Moo07]. **Sinks** [WLE+00]. **sintering** [CP05]. **situ** [LP09]. **Sivashinsky** [CFP08, KMS03]. **Sixth** [WZ09, Hau08b]. **Size** [BW02, Zha02, Hew03, YE07, ZZ09]. **Skew** [Coe02, DLS+00]. **Skew-Symmetric-like** [DLS+00]. **skewed** [TAL09, YMWM06]. **skill** [Ano08-50, SM09b]. **Slab** [BS00b]. **Slater** [GM01c]. **Slender** [KK00c, BP08]. **SLICE** [ZWS07]. **slide** [Car09]. **Slider** [WB01]. **sliding** [AKH06, HHM04, KH07]. **slightly** [ZD05]. **slip** [BIW04, HSC09, PK05, SS05c, SN08, VLB09, ZTPM05]. **slip-dependent** [BIW04]. **slit** [Mad05]. **Slope** [Xu02a, Boy03, ML08]. **Slope-Update**

[Xu02a]. **Sloshing** [Fra04, CN05, LL08a, VGL+07]. **slow** [GV06, Kel05]. **Slowly** [Wu01]. **Smagorinsky** [MGS07]. **Small** [Hix00, LWDA09, AV03, BEPT09, HMA05, KM06, KM07b, Pal08, RE07, RWMK03, TJ09]. **Small-angle** [LWDA09]. **small-scale** [KM06, KM07b, RWMK03]. **Small-Stencil** [Hix00]. **Smearing** [BU02]. **Smooth** [ASPB03, Ber04, CS06, CS07d, CS08c, DJM05, GP05, MC06b, YBZ06, vZdBB07]. **Smoothed** [BZ08, CPK02, iI02, LMK09, PM02, ZF02, BZ04, BOT05, CGSR08, CFL+03, CL03b, CEL06, ESE07, HK08b, HX05, MHW05, TM05, TMSW07, Yok07, ZB07]. **smoothed-particle** [BZ04]. **smoother** [EKP07]. **Smoothing** [DIV00, KKGL01, ABHT03, HZGB04, HZGB05, WSTW09, YZLH09]. **Smoothness** [KKP02, LCS02]. **Soap** [ZP02]. **Sobolev** [RSS09, SNLS03]. **soft** [HK08c]. **soil** [SM06b]. **Solar** [SJC07, Dic08]. **Solid** [Bar02a, EKK02, FGS09, Fed02, HHL00, HPZ01, Man02, MC02, BL08, CCV03, CYS06, CP04b, DVHM05, HS04, HH06, JJGL06, JJGL07, KS09, Kou07, KB06, MEKS03, MMS04, Mil04, NMG09, SMGJ09, Vik03, VHI05, Yam05, ZKS+09, ZFM08, vLAvdV06]. **Solid-Fluid** [MC02, FGS09, BL08, ZKS+09]. **Solid-Liquid** [EKK02]. **solid-rigid** [vLAvdV06]. **solid-state** [CP04b]. **Solidification** [ART02, LLH02, LW06, MHW05, PK00, SZ01, YU05a, ZH01, AD03, ART04, KW08b, RJM07, TZ06, TZ07a, TZ07b, TZ07c, ZGT06]. **Solidifying** [LS02b, CDDH07]. **Solids** [ATV01, HB02, MC01, JG09, Tan08]. **Solitary** [Boy02b, LY07b, Yan08, Yan09]. **Soliton** [GHV00]. **soluble** [MT08, ZEA06]. **solute** [IG05]. **Solution** [ABGV02, ACS00, ADK00, ADK02, AQV02, BR01, BC02a, BMR01, BMRS01, BMRS02, BT02, BK01, CWT00, CL00b, Dri02, FGG01, FP02, GZ01, GC02b, HW02, Hua01a, JMK01, Kan02, LTE07, LXM09, Lin01, MR00, MR02, MN02, Pai01, PR01a, QCGQ03, Stu01, VB00, WPW02, WLE+00, ZZ01, ZYC02, dFJS09, vBRK01, ARRS09, AKV06, AL06, AEP04, And09, AG09, ACLS03, BT03, BJM03, BL09a, BCDR06, BFC04a, BFG08, BTT08, Bia03, BSLN09, BSW05, BGLN05, CJK+03, CFJ06, DSM09a, DVHM05, DS06a, DF04, Dom08, DR09b, EB06, FK07a, FT05, FOLD05, FH07, GS03a, GS06b, GV07, HKM08, HEN09, Hoh06, IHL03, JW09, KS08a, KK03a, KSH+06, KAK03, KL04, KMS04, KT03, KT05, LH05a, LG07, LM08c, Low05, LCdCN+03, MZ09, MP07a, MNR07, MKKY06, MK08b, MOG09]. **solution** [MSB07b, Mou04, MK07, Ols07, Pap08, Pud06, RVM07, RWMK03, RHPN09, RAD07, Roy05, SSN09, SS03a, SWZ03, SB09, SHTB09, Soc03, ST03b, Thö04, Tok06a, TV08, TDV06, VC03, WK07, WM07, YAvdB+08, YKG04, ZG08, ZYL+06, ZZ09, ZSC08]. **solution-adaptive** [ST03b]. **Solution-limited** [LXM09]. **Solutions** [CH01, Gos02, PKP01, PS01, SPW+00, VQSZ02, BB08a, BDRT09, Ber04, BT09, BDCG03, CFR09, CL03a, CS08b, DD09, FCJ08b, HK06, HLRZ06, HL07b, IG05, KW08a, KMS03, KN04, KLSW09, LHD05, LW06, LRMB08, LW07, MM07, MHB08, MD06, RS09b, SY09b, TC09a, UL06, YU05a, YJF+06]. **Solvated** [FS00b]. **solvation** [CXB08]. **solve**

[BZ09, Cha07a, Cha07b, CEH09, CFP06, IM07, ND04, TBT+09]. **solvent** [DC07]. **solvents** [XDC09]. **Solver** [BZW01, CBKM00b, CKF02, CSS00, HR01, iI02, Lai02, MOvL00, RLB02, ZS01, AQ09, ABZ+08, BCCV09, BH09, Bey09, Bia03, Bil05, BYZ04, BJ09, BLM04, BL05, BH04, CW03, CGMS03, CK03, CP06b, CP06c, CHL06b, CLL+07b, CLS09b, DHOT09, DSM09a, DVHM05, DBF08, DP07, GS05a, GS06a, GA09, GTMC08, Gui05, HK08a, HC09, Her08, HdGKG08, HJ07, HVAC09, HAI09, HB05b, IQT08, JR09, JTL09, KW06, KP04, KLLJ09, KAA+07, KS07, LT05, LFX05, Li05, LK09, LDPL08, LC03, MR05, MR07a, MPD08, Mig07, Mil04, MK05, MBP07, NOG08a, NI03, NLLE06, NS05, Pop03, Pop09, RBT03, SO08, SL03, XYK05, YBZ06, ZJ09, dNWvSD07, dTWD09]. **Solvers** [AV02, CT08a, LP01, Mav02, MOS+00, OMG02, QS01, SBGK00, SC01, AMLC08, APQ03, AQ07, BPO07, Bra08, BH05, DIL03, Geo08, JR07, JL04b, KDK+07, KSW07, LMS05, LG07, Löh04, MTV08, NK08, SMAj08, SB03, TT06a, YLD09]. **Solving** [AKV00, Bot06, Cal02, CCV03, DV02, DKX00, DKX01, DFT01, HK01, HMM07, Mai03, MP01a, MP02, MSO04, MR07c, Moo07, ORM06, SS08, SKAS01, SWL00, TK02, UL06, VC00, WKL07, YA05, ZYC02, ZYL+06, AMXL09, AC05, CHL09, Cap08a, Cap08b, COQ06, CS07b, CW08, CJ07, CDL04, CDL05, DLP08, Eg07, FM04, FP08b, GS07, GK05, HL05, IKS+09, ILL09, KSO+05, KZ04, LL03c, LRZ04, LP07b, Mai04, MR06a, OTCM08, PSD09, RCT07, RLZ03, RS06a, RRW05, RM08, SROCFF03, SL07b, SR09b, STR07b, TLL+08, Tau07, WXG07, WGS+08, XDB09, XMT06, YYF09, YCL05, Zho07, dDEK09]. **Some** [JHSZ07, OF01, Sto07, Thu08b, AST07, LM08b, VBL03]. **Somerville** [WS04]. **Sommerfeld** [GFR09, Meh04]. **sonic** [Asl04b, Tan05b]. **Soroban** [YMT+04]. **Sort** [Bow01]. **Sound** [Fre00, HSK00, MN02, BA03]. **Sounding** [TK02]. **Source** [HK00, HGN00, SR00b, Xu02b, ZCMI01, BIW08, BP03, CVB06, CSMH05, ES03b, GLS03, HW08, JD09, KNH05, LT09a, MJ09a, MC07c, RBT03, TE04, TT05b, VS07, Wen06, XS06, YYF09, ZSW03]. **source-independent** [CSMH05]. **source/observer** [VS07]. **Sources** [GBGM01, POS00, WLE+00, BCDW06, CWJ07, HO08b, OK06c, ZZFW06]. **Space** [AB07, CP00, CWT00, Han00, HA02, JWSC00, KvdVvdV06b, LTZ02, OCK+02, PR04b, PM00, SUW01, ZYC02, ZRR00, vdVvdV02, vdVX07, AKV06, ASQR06, AK07, AGSX09, BFT07, BIS07, BS03a, BKM09, Boy03, CQRW05, CFJ06, FR03, FCGK05, GvH06, GR07, HLO08, IS04, IH04, JW03, JX07, KvdVvdV06a, KvRvdVvdV07, KT05, KLM05, LG07, LW07, LS09, kM07a, Moo03, Moo07, MR06b, RJM07, RBK09, Shy06, TT05b, TFDK04, ZYL+06, dWKL07]. **Space-Charge** [SUW01]. **spacecraft** [LZ09c, VGL+07]. **spaced** [HM08]. **Spaces** [FLG01, YS06]. **spacewise** [YYF09]. **spacewise-dependent** [YYF09]. **SPAM** [SWTM01]. **Sparse** [Bor00, GZ07b, GG00, WHS08, ABZ+08, BPS03, DBF08, HM08, LAKD08, MZ09, ZG08, ZGSD06]. **Sparsity** [Lou00]. **Spatial** [BRL02, BCMO01, KK05c, LBV00, MAN+06, OMG02, ZDNP00, Bey09, BB07b, BdCB09, Che07, CFP06, Jor07, LSD07, MPFC08, NWZL08, RBSL06, ZT07a]. **Spatially**

[CKS00, AKLMP09, CV06, FG04, FG05, FE04, GTMC08, KSJ03, Kou09, LG09, VCZS04, ZIP06]. **spatially-developing** [FE04]. **spatially-varying** [GTMC08, Kou09]. **spatio** [DGF09]. **spatio-temporal** [DGF09]. **spatiotemporal** [SJC07]. **Species** [WDM01, AK09, BK07, LCB04, SD05a]. **spectra** [DK06, Mil06, Mil07, TPVG06, Yan08]. **Spectral** [AQ00, AGP01, AQV02, AP02, AQ07, BJM02, BK08, BS03b, Bor07, CSS00, CKGL02, CMOV02, DLMK04, Dri02, ES06, FLG01, FYH+06, GT09a, GP00a, GS06b, GBGM01, HL01, Hei04, HKV01, KK00a, KK00b, KB08, LS02c, LJW09, LVW06a, LVW06b, LJW07, LMS02, PRT00, PX02, PR04a, PW00a, PR03, PR06, PG02b, RH01a, Sac07, SB06c, SC01, SG03a, SWL06, TRL01, Wan02, WL02, WZL04, WK01b, vOP04, AQ09, BM06, Bey09, BS04c, BvdHKG07, BDCG03, BLM03, Boy04, Boy05a, CJSS08, CCV03, CLL+07b, CKG04, CQRW05, CD07, CFJ09, DDH05, DLD08, Dim07, DGJ03, DD03a, DD03b, FD03, FK09b, FBHV05, Fou06, GSV06, GFR09, GPF03, GW05, GR08, GD05, HWL08, pHL09, HK08a, HEN09, HdGKG08, HL07b, HJM+05, HJM06, IM05, IHL03, JZ08, JW09]. **spectral** [KCH06, KH09, KDK+07, KS09, KT03, KS07, Lab09, LL09, LP07a, LM04, LJS08, LX07a, LCCG05, MVD04, MNR07, MP03, MLFG06, ND04, NL09, NB04, PH08, Pir06, PR04b, Pon07a, Pon07b, RFFP06, SSN09, SR09a, Sar03, SS07a, SY09a, SK04a, Str07a, THL06, TBT+09, TCN09, THS07, VL07, VLW07, VBL07, VGPL09, WL06, WG09, WPH00, WGRA09, XP04b, XLS09b, YYT05, YZW05, ZC09, ZYHS07]. **spectral-element** [Fou06, KS07, RFFP06]. **Spectral-Lagrangian** [GT09a]. **Spectral-Projection** [LMS02]. **spectral-WENO** [CD07]. **spectral/B** [DD03a, DD03b]. **spectral/B-spline** [DD03a, DD03b]. **spectral/discontinuous** [CQRW05]. **Spectral/hp** [ES06, PR03, PR06, SC01, PR04b]. **spectrally** [BW06, BCL06, DP09, HF08b]. **spectrally-accurate** [HF08b]. **Spectrum** [GBS00, VCT09]. **Speed** [FS01, KMA+01, sLwG08, BHS09, BN09, HS03a, HS06, KSO+05, SMS04]. **Speeding** [HK00]. **Speeds** [MD01, JW06, Lio06, MDS03, Soc03]. **speedup** [EV03]. **SPH** [BRP05, DKS+03, DLD+06, DLT09, GAC+09, HA06, HA07, HA09, JOS06, KM08a, LMX+08, Mon00, ODAF06, ODAF07, OBT06, Owe04, Pri08, SSL00, XSL09]. **Sphere** [Che00a, Che00b, CKGL02, KMHR00, Lay02, PWS+02, Tol02a, Tol02b, AQ09, BAFL09, BCE+09, Boy05a, BZ09, CDJ07, CF06a, CCV03, CX08, CKG04, Cho05, DC07, DTSC04, DJ04, FW07, FP08b, GW05, Gir06, LS03, LJW07, MC06b, MK08b, NFvS+06, NI03, Pud06, PL07, Ros06]. **Spheres** [PO01, BP08, VQLZ04]. **Spherical** [Gir00, GHW02, LBV00, LBV01, Nit01, SS00, AQ07, GG09a, GPF03, Jao07, JD04, KL06, LHD05, LGHD08, Liv07, Mac07, NB04, OBT06, SP06a, SC08b, Tyg08, WJV07]. **Spherically** [HZ02]. **Spheroidal** [BS00e, Boy04, SJ04]. **Spilling** [DF00a]. **Spin** [GCW07, YMF01, FT09, WJV07]. **Spin-Orbit** [YMF01]. **Spin-polarized** [GCW07]. **Spline** [DDS09, GW01, KMJ01, Lay02, PB00, SKAS01, Ver01,

Bia03, CP04b, CLS09b, DD03a, DD03b, ELW04, LHGF04, ZWS07]. **splines** [CP04a]. **Split** [HZ08, SFY01, Sti02, AMSZ07, MM03, Nas08, RBK09, SA09, SK08b]. **split-conservative** [SA09]. **Split-Step** [SFY01, Nas08]. **Splitting** [BJM02, BM01c, Edw00, EF02, FMR09, HH01, HH02b, HGN00, KLN+01, LLIK01a, LLIK01b, MBP00, NTYT01, NTYT02, Ros00, SLY02, Spo00, VG01, YVD00, Asl04b, BG05a, CHL09, CJ09, DPRN05, DQ04, EF03, Fas03, FL09, GS03d, GS09c, HJM+05, Hub07, HGB+03, KN09, KKO04, LLOT06, MEKS03, MY07, NvL03, Pon07a, QW05, QA09, RC09a, RP08a, RS05, RS09a, RDPN07, Sac07, SJD05, ST03a, TBT+09, TCN09, TK04, YHSX07, YZW05]. **splitting-based** [TBT+09]. **sponge** [Bod06]. **Spontaneous** [YZF07]. **Spray** [BW02, FLM08]. **sprays** [AJ09, LMV04, TT06c]. **Spread** [BST01, BST03]. **Spreading** [HLZ02, DW09, HSC09, ZGG03]. **Spring** [TTSG01, TSG02, LWF+08]. **Spurious** [DS01]. **Square** [Bor00, Cap09, GS03a, LL04a, SL07b]. **squared** [BEE06]. **Squares** [PG02b, AMSZ07, BT05, BT06, BP04a, CSO09, DI09, GNNB08, HV03, HK08a, HMMR04, HLMM07, HdGKG08, HY09, HY11, KH09, NCS03, PR03, PR04b, Pon06, Pon07a, Pon07b, PR06, VB09, ZKY05]. **squares-based** [NCS03]. **stabilisation** [NW07]. **Stability** [AC00, ACY00, APQ02, Bal08, BB08a, BFJ03, Cod01, DVHM05, DWLM09, FGG01, FDL08, GF05b, HFO01, LG08, Lee03, LRS09, MG02, NR01, PR01a, Pet01, Rem00, Rem06, RS05, RS09a, RB02, SHWW00, SV00, WK01b, BBC+06, BDCG03, CHH06, CHPR09, CFJ09, DMG04, FD03, GV08, HS09b, HM04, KRT+09, KWD07, LH05a, LGKP07, LZ07, MPD08, Maz06, NZ07, OCFF08, Sam09, SCT09, zSW06, zS06, VCT07, VL07, VGPL09, XSL09, Yan08, YMWM06, ZK06, ZT03]. **Stabilization** [PX02, San03, HH07b, QT08]. **Stabilized** [JML+01, RB09a, XP04b, BB07a, HY09, HY11, LSS+09, MZ08, MR06a, MGCR07, NZ05, SV07, ZSP08]. **Stable** [Azm02, BKST09, CYKC01, De 04, GGCC09, Hu01, HWWL09, IA06b, KR02, KR09c, MSS08, MHI08, Nys02, VWW04, Wan04a, WDM01, Wee02, YC09b, ZZ01, AM03, AM04, AB03, BL04, BLM08, BO09, BSLN09, DR06, FNS07, GG09a, GN07, HR08, pHL09, HX05, JAK05, JL04b, sKKRH03, KYK07, KPP07, KPP09, LL05, NFGK07, NG06b, NGvdWS09, PC06a, SLV09, SCN07, SN08, TCM05, WC07, YC09a]. **stacks** [CKPW07]. **stage** [KWD07]. **stage-exceeding-order** [KWD07]. **Staggered** [ALGM01, GHV00, GW01, HH01, Per00, XCZ02, YP01, ZSP02, Boe05, CSL08, KE06, KAK03, LD09a, LS05b, LSW08, LRS09, PN03, PS04, RCB05, SK06, VSW04, VSW06]. **Staggered-Grid** [XCZ02, LRS09]. **stagnation** [SBA07]. **Standardized** [BP04b]. **Standing** [VCP00]. **Stars** [BTFY01, TVMR03]. **started** [DCK08, KR09a, NCS03]. **State** [CYKC01, FV01, Mai01, MOvL00, Shy01, VTM+08, BT03, BLM04, CORT09, CGH05, CC07, CP04b, CS06, CS07d, CY05, HPS06a, HJJ09, ISNY05, Kwo08, Mai03, Mai04, MK05, MK07, PPB09, SFDL07, VVS08, VTW+07, Wen06, ZL08b]. **State-of-the-art** [VTM+08]. **Statement** [KB01]. **States**

[FGOV00, RS02, BCL06, BS08a, BNNP06, CL08a, CGL06, CKLS05, CLS05, FJ09, GT09a, Geo08, VTW+07, Vos06]. **static** [CLLG09, FHD+09, HH07a, KK03a, KOQ04, KOQ08, LKE04, Mar06, PH09, VOD08]. **Stationary** [DCV+01, GS06a]. **Statistical** [DC08, DF07, FS01, HGBH03, SFX03, CFM09, FWP09, GT09a, PM07]. **Statistics** [FH02]. **Steady** [CYKC01, CAL00, GM01b, MOvL00, PPB09, VG01, VP09b, vBRK01, AM04, BNNP06, BLM04, BEG03, CGH05, CC07, CS06, CS07d, CY05, DR09a, FJ09, Geo08, Gla05, GMO04, GMS06, HY09, HY11, HLY09, Hub07, ISNY05, NJX08b, PR06, RFVP09, VVS08, WK07, Wen06, XMP07, XSG04, ZKY05, ZL08b]. **Steady-State** [CYKC01, CGH05, CY05, ISNY05, VVS08, ZL08b]. **steady-states** [FJ09]. **steep** [YM07]. **steepest** [CSMH05]. **Stefan** [BMR01, BFC04a, CMG09, GF05a, HZ07b, JVVS07]. **Stellar** [MC03]. **stellarators** [SKK+08]. **Stencil** [Hix00, DS06a, UPKN09]. **Step** [BE02, CGP02, Cod01, Gui02, LOK01, MT01, SFY01, AHNS09, BBHM09, Bil05, CB03, DT04, Dom08, DBTM08, GSV06, HVAC09, HLX06, ISNY05, KDW08, KSGF09, LDW07, LP07b, Nas08, RFVP09, VSG05, ZSW07]. **step-flow** [HLX06]. **steplength** [FG04]. **Stepping** [Hig02, RB02, ZTZ02, BHvdV06, DR06, DGRS08, HR08, HC08, Hig05, KvdVvdV06a, LXM09, LGM08, Mad06, MPFC08, TDGP06, UBRT07, VSH04, YA05]. **steps** [TZHT04]. **sticky** [PC08]. **Stiff** [BJ00, BJ02, CM02, MOvL00, Spo00, VG01, APR09, CPKW09, DP08, DET08, GV06, KKO04, Kro05, MC07c, NZZ06, RE07, Tok06b]. **stiffness** [HS08c]. **Stirred** [LLQ+02]. **STM** [BGR08]. **Stochastic** [AGT02, AJ09, BDGL05, DGA08, GK02, Hor02, Kou07, LKNG01, LRN+02, MNR07, PFB01, TX06, WB09b, AS05a, AA07, AA09, APR09, AGT05, AWK07, AGSX09, AZ05, AZ06, AKP07, BCK09, BFG07, Cam03, CP03a, CGP05, CP06a, DSJ03, Dem04, ELVE07, EPW08, GZ07a, GZ07b, GZ08, GZ09, GD06a, JZ08, KMV03, KW03, LGP09, LK07, LRS07, LGK06, Liu08, MZ08, MZ09, MT04, NZ05, NL09, PA07a, RE07, Sto07, SL06, TJLT08, WK05, XS09, ZG08]. **stochastic-** [APR09]. **stoichiometric** [JVVS07]. **Stokes** [DD03a, AQ09, BQQ09, BCDR06, BS08b, BHR06, BB07a, BACFT05, BLM08, BT02, BCVK02, BYZ04, Boe05, BT06, BJ09, BT09, BP08, BCM01, BGLN05, CSL08, DC01, DR09a, Dim07, DD09, DB04, Dom08, DD03b, EHST03, EHS+08, FL03, FOLD05, FD07, GH03, GS07, Gel06, GP00a, GSV06, GCNB07, GR08, GS03c, Gri09, GSW00, GK05, HH08, HH01, HDC02, HK08a, HH02b, HLMM07, HS08b, HS08c, HLL08, HC05, IQ08, ILL09, JK00, JL04b, JMC03, KA05, KE06, KH09, KDK+07, KG08, KAK03, KvdVvdV06a, KvdVvdV06b, KvRvdVvdV07, KM00, KB01, KS09, KT03, LMN+09, LOK01, Lee09, LC01, LL04a, LL01b, LFX05, LDPL08, LRZ04, LP07b, Liu09b, LM03b, LMS02, LB04, MPP01, MVD04, MRS09, MM01, MCG08, MSS08, MF00, MG06, MLS01, NW07, NZ05, Ni09, Nik06, NMS07]. **Stokes** [NGvdWS09, Pai01, PNMK09, PKP01, Pet01, PR03, PR04b, Pon07a, Pon07b, Poz01a, PR06, PG02b, RBH03, RS06a, SML02, SNGAS04, SFE07, SMB09,

STZ07, Soc03, SCN07, SN08, STR07b, SPW+00, TOZP03, TLK09, TXCD07, TC09a, TS04, TG08, TWS02, VSW04, WRu03, WPH00, WK01b, WS01, XK01, Xu01c, XYK05, YS07a, YJF+06, ZL08b, ZDNP00, dVGLM09, vBRK01]. **Stokes/MHD** [YS07a]. **Stokeslets** [ADE+08]. **stopped** [Buc05]. **storage** [CFR04]. **strained** [RS06b]. **strains** [SKS08, YH07b]. **Strategies** [KB00, KLN+01, KMS02, BB07a, HJFW04, HM08, RMG+09]. **strategy** [ÁDIM09, BP09, CL06b, ERVE09, FVE04, GCCD07, GE07, HE07, MMS04, MHE06, VBL03, VBL04, YYT05, dDEK09]. **Stratified** [CL07a, CL08b, DKSW01, Pai01, Bar04, BM06, DDH05, GBC06, KSH+06, KSHS08, SE04]. **stratosphere** [MM09]. **Stream** [HF00, Pee03, LL04a]. **streamer** [CN08]. **streamers** [MHE06]. **Streamfunction** [Cal02, AKH06, BACFT05, GK05]. **streamfunction-velocity** [GK05]. **Streamfunction-Vorticity** [Cal02, AKH06]. **streaming** [GS06b, LL03b]. **Streamline** [HFO01, MJT06, Yeh07]. **streamwise** [JOS06]. **Strength** [RH01b, XDC09]. **Stress** [HJ02, BS09b, SW04a, YAvdB+08, GM01b]. **stress-velocity** [YAvdB+08]. **Stressed** [ATV01, LN09, RRV06]. **stresses** [HO03]. **stretch** [ID04]. **stretched** [dHRvdB07]. **Stretching** [ACGV07, GGRS08]. **Stretching-based** [ACGV07]. **Strict** [AC00, ACY00]. **strides** [SROCFF03]. **string** [CP03b]. **strip** [ST04]. **Strong** [GG00, Sun00, DDSV09, DLT09, HP04b, KLLJ09, KWD07, LP06a, LKY03, dWKL07]. **strong-field** [dWKL07]. **strong-stability-preserving** [KWD07]. **Strongly** [AK06a, Alb00, LG03b, KKS05, SE04, WKL07, YE07]. **Structural** [AJT04, SW00, LLC+08, LZH+07]. **Structure** [BADG00, CWWZ00, CD00, Cul01, DGP00, TR02a, AK06a, AKP07, BNV08, BCHL07, BGS08, GA09, GGCC09, HBHS09, HC09, IS04, KKCF09, KGJ05, KYK07, KF06, Küm04b, LZ07, LCG07, LMZ+08, LZH+07, MC03, MK04b, Pap08, SPT05, SL07a, SM06b, SP05c, SP06a, VTM+08, WBM09, YMW06, ZFM08, vLAvdV06, vZdBB07]. **Structured** [DLS+00, DI02, Edw00, LM01, BHS09, CSML06, LSB04, LM03a, MC07b, MCP03, RAB07, TRSK09]. **structured-grid** [CSML06]. **Structured/Unstructured** [LM01, LM03a, MCP03]. **Structures** [DS01, GM01a, KM02, WPM+02b, WZ02, CLL07a, CGL06, CdHST08, EZ08b, LHGF05, MR07a, RVVL09, SZB+07, SZS03, ZK04, ZH09]. **Studied** [vHBB02]. **Studies** [OS04, RSO04, CGSR08, LZ09c, LGK06]. **Study** [Dar00a, DCV+01, DP00, LZ04, Lin02, PPCW06, SZ01, BBB08, CLL07a, CKG04, CP05, CM03, DS06b, DLW04, GR08, GLLX08, HMR08, IA06a, Kas07, KTD03, LCB04, LL08a, MC09, MC06b, NFA03, OCFF08, QKS06, Ren07, SS03a, SJ04, SB06c, SKW05, SCRL08, TPVG06, VL07, ZK05]. **Studying** [PA00, Kro01]. **sub** [BAMD07, BAR08, CLTA07, VS07]. **sub-cell** [BAMD07]. **sub-diffusion** [CLTA07]. **sub-linear** [BAR08]. **sub-wavelength** [VS07]. **Subband** [PA05]. **subcell** [LS05b]. **Subdomain** [WPW02, KT05]. **subdomains** [KT03]. **subfilter** [LDN04]. **Subgrid** [AS02, ML01b, AHF04, PM08, VK09, Yeh07]. **Subgrid-Scale** [AS02, AHF04]. **subgridding** [VPMC04]. **subject** [SG03a, VVS08].

subjected [JOS06]. **Submarine** [DC02, FNBB+08]. **Submodels** [BW02]. **Subsonic** [SSD00, SB02, HSQ03, Pro05, Pro07, SBC04]. **Subspace** [SWTM01, BEPT09, ZSTC06]. **substances** [NDG05]. **substrate** [ZDD09]. **Substructured** [SC01]. **Substructuring** [Man02]. **subsurface** [JLT03]. **Suction** [CS00]. **Sufficient** [SV00]. **sufficiently** [GP05]. **Suitability** [MLM09, PYC04]. **Suitable** [Tem06, KPP07, KE09, RB06]. **Summation** [MN04, MN17, KTD03]. **sums** [LT09b]. **Super** [CR02, AC09, CLL07a, Sar03]. **Super-Grid-Scale** [CR02, AC09]. **super-lattices** [CLL07a]. **Supercell** [FHLK05]. **supercells** [LCG07]. **superconducting** [DJ04]. **Superconductivity** [DDG02]. **superconformal** [SS08]. **Superconvergence** [CS08b]. **superconvergent** [LNXNTX09]. **superfluid** [LKE04]. **superlattices** [CBC09]. **superlinearly** [VSW04, VSW06]. **supersonic** [BP04a, DGJ03, FL07, MT07a, UPKN09]. **Support** [MHS01, EZ08a, GG09b]. **Support-Operators** [MHS01]. **supported** [Tow07]. **suppressed** [Bor03]. **suppression** [Lur07]. **supra** [MGC06]. **supra-convergent** [MGC06]. **supralinear** [CMG09]. **supersonic** [BP04b]. **Surface** [AINR03, BST01, BK01, CS00, DF00a, GHG01, GKJW07, JTB02, JK02, Nie01, RRV06, RRV01, RR02, SZ01, Str01b, TCM+00, ZTZ02, ZCMI01, vBRK01, AMH04, AMS04, BMN05, Boy05a, BN09, BGN03, Bur05, CPR05, CS05, Che03, CFGK05, DS05a, EE08, EG08, FCD+06, FCGK05, GV08, GT09b, GFR09, GS03b, GCCD07, GAC+09, GR07, GS09d, HS09a, HZ07a, Hum05, JCT07, Kim05, KLW09, LLP07, LB03a, LN09, LY04, LF04, MS08a, Ni09, NGC+07, OTCM08, Pee03, PN03, Pop09, QP03, RB05, RMF08, SDGX07, SE04, SK05, SAKDJ05, SC08b, TJ09, TW07, WSI08, XMP07, YZ07, YP06, ZKDT07, ZL09]. **Surface-Tension-Driven** [Str01b, Pop09]. **Surfaces** [BCOS01, CBMO02, CBL01, KKGL01, ML01a, MS01, BPL06, BHP07, Cec05, CDI09, Chr04, CH08, GH08a, GNNB08, Hel05, JR03, JR04, JCT07, LZ09a, LKMU05, MR07b, Nic09, RGS04, RM08, dSMN+04]. **Surfactant** [GHG01, JL04a, LTH08, XLLZ06, ZEA06]. **surfactant-conserving** [JL04a]. **surfactants** [GT09b, MT08]. **surrounded** [CPR05]. **Survey** [Ben02, KK04]. **suspended** [KHdT+08, KMSH08, VGZB09, VGBZ09]. **suspension** [AH08, FY07]. **Suspensions** [JC02, DMHP07, HO06, HHM04, TG06]. **sustained** [CBC09]. **sweeping** [COQ06, FLZ09, KOQ04, KOQ08, LSZZ08]. **swimmers** [HK08b]. **swimming** [KM08a]. **Switch** [KMA+01]. **Switch-On** [KMA+01]. **switching** [CBH03]. **Symbolic** [BMDS05, BSP06, CS03, DP00, CS04, MBS03]. **Symmetric** [DLS+00, GFCK02, HZ02, Mit00, Ver01, BS08a, BPS03, CJR04, JLOT05a, KLSW09, LLS09]. **Symmetries** [WZ02, KEB+07]. **Symmetrized** [DS06b]. **Symmetry** [BPMR08, CRB00, Car01, DH09, VV03, Kok09, LW04]. **Symmetry-preserving** [VV03, Kok09]. **Symplectic** [Rei00, COR08, HL06b, HyLL07, HJL09, MGS09, QM03, SHWC07, Tan05a]. **Synchronous** [MMKP08]. **Synergia** [ASQR06]. **synthetic** [FWP09]. **System** [AKV00, Ano08-50, FK02, HK01, LP02, MP01a, MP02, MCCT02,

VQSZ02, Wu02, de 00, BSW03, BL04, BP06, BLG+08, CGMS03, CR09, CBS05, DMBS05, Del03a, Del07, Eli03, Eli07, GS06a, GS09a, GGMN+09, HK08a, HMMR04, HJM+05, HGB+03, ILL09, JMZ04, Nat06, NMM+07, Nis07, SM09b, SA09, VVM05, WO05, WO09]. **systematic** [YC09a]. **Systems** [Ben02, CWWZ00, CPP02, CM02, FMO00, GTD00, HZ02, HR01, HPZ01, KLN+01, KKP02, LMSW02, Mu02, Noe00, PS02, PO01, RC00, San01, SSC00, AS05a, AGT05, AC09, BCB03, BKS07, BS09b, BTWGvBW07, BP07, CLS+06, CORT09, CGP05, CP06a, Cap08c, Cap09, CBJdlC07, CHM08, CP08, DDD05, De 04, DK07, DKTT07, ELVE07, Edw06, FVE04, FHLO08, FHLK05, FT09, GV06, Gui05, HJFW04, HH07b, HM08, Hau08a, Hau08b, HC09, HS09b, Hwa03, HWW07, JRS05, JLOT05a, JHZ+09, JAK05, KDOO05, KSHS08, KMV03, Kau03, KCMM03, KB08, LZL03, LL03c, LVW06b, Liu08, LCM07, LB04, LMZ+08, Mad06, MM07, MMKP08, Mil04, MG07b, MC07b, Moo03, NZZ06, NFA03, NZ07, PGB05, PA07a, PDL09, PC06b, PBH04, Pro08, RE07, RP08a, RS05, RS09a, RBL04, Ros06, Ros08, RM07]. **systems** [SS03a, SWB+06, SHS08, Str07a, SG03b, Tan05a, TT05a, Tok06b, TT06a, TT06b, THD09, TDV06, VHI06, VTM+08, WZL04, Wen06, XS06, YS07a, YKG04, ZIP06, ZFM08, dSMF09]. **Systolic** [DHM03].

T [Har04, AMXL09, DZ09a, JHSZ07]. **T-3** [Har04]. **T/TM** [DZ09a]. **Tabulation** [HGM01, LP09]. **tailored** [dNWvSD07, dTWD09]. **Takizuka** [WLC+08]. **tallies** [GMH06]. **tandem** [MAL09]. **tangential** [GH08a, ND04, VQLZ04, ZVQ07]. **Tank** [LLQ+02, CN05]. **tanks** [Fra04, LL08a]. **Tapered** [Car01]. **target** [HZ07a, MSO04]. **targets** [HSZ04]. **tau** [RE07]. **taxonomy** [EHS+08]. **Taylor** [BZ08, CR00, Dar00a, FS06, FDD09a, GGL+01, KB01, LBL08, NCS03, TM05]. **TDGL** [WA02]. **TE** [ZW05]. **TE/TM** [ZW05]. **technical** [BEA09]. **Technique** [AA02, BU02, CL02, GG00, HPZ01, KKR01b, MBP00, NTYT01, NTYT02, SML02, SHS02, WLE+00, BGM08, Bet08, BP04a, BGN03, CB03, DDK06, FK07a, FM06, GPVB07, GLLN09, HLL08, LY07b, LJM+06, Lar09, LKMU05, MKLU05, MCN03, OTCM08, OK07a, RVVL09, SGFL09, SP05a, WZ09, XYK05, YZLH09, KG09]. **Techniques** [Ben02, HH01, MM01, MOS+00, Spo00, BS03b, CR08, CRB+08, Dem04, DDDC07, HV03, KS08a, LWG03, PS07c, SY09b, SP05c, SMSS07, VBJ08a]. **telemetry** [CP03b]. **teleportation** [DS05b]. **Telescopic** [GK03]. **Temperature** [ELW01, JK02, HS04, KW03, LZ07, LP06a, MDR07, NVD05, Soc03, XHC08]. **Temperature-Dependent** [ELW01, KW03]. **temperatures** [SK08a]. **Temporal** [CV06, GHV00, Wee02, DGF09]. **Temporally** [Nys02]. **Tensile** [Mon00]. **Tension** [CS00, JTB02, Nie01, RR02, SZ01, Str01b, BN09, FCD+06, GV08, GR07, Kim05, LLP07, LF04, Pop09, SAKDJ05]. **Tensor** [BTFY01, CS01a, Edw00, KKCF09, KMHR00, ML01b, KR09b, Lar07, Owe04]. **Tensor-Diffusivity** [ML01b]. **Tensorial** [PB00, NV09]. **tensors** [Hua05]. **Term** [HK00, WK01b, CVB06, DMR09, GS06b, JL04b, PPB09, SK04a].

Terms
[BJ00, BBR01, HGN00, Xu02b, ZCMI01, ASPB03, BP03, HW08, KD09, KG08, LTZ03, MPFC08, RBT03, SZC09, Tol07, TE04, TT05b, Wen06, XS06]. **terrain** [Ano08-50, SM09b, WS04]. **terrain-following** [Ano08-50, SM09b, WS04]. **Test** [HS07b, BZ08, CHM08, DTSC04, GR08, KZWY09, SD06, ZRS06]. **testing** [Hig05]. **Tests** [BK01, LLIK01a, LLIK01b, MEG02, SPW+00, DLMK04, SD05b]. **Tetrahedral** [BT02, MGGH00, MP01b, CBH03, DS05a, MP05, VGPL09, YJ06]. **tetrahedron** [DR06]. **tetrahedrons** [LJSM08]. **Textbook** [LDPL08]. **Textbook-efficiency** [LDPL08]. **Their** [LP01, Saf00, BZ08, GLMH09, HO08b, QS04, Ros08, Tak06, VB08]. **theorem** [BO09, Tow08]. **Theoretic** [HSK00, HSQ03]. **Theoretical** [Wag05, ZGSD06]. **Theories** [BTFY01, CLMRP08, Chr03, HvHHS05, LM08a]. **Theory** [AKY01, FS00a, FS00b, HWL08, JTB02, YLD09, AK09, BBB08, CXB08, CBC09, CFM09, FHW07, FLE03, GD07b, HMA05, JR03, JR04, JY08, KDF07, Lau04, LS05a, MG07a, PM07, RCT07, SF03, XSG08, ZK05]. **Thermal** [DDG02, GR01, PR00, Sie00, Cho05, DSM09b, EULM03, FHLO08, FBHV05, LCB09, LM08c, MC04, MHB08, MELD08, MC09, PSC04, PSMW09, Sof09, TSG+06, YWC07]. **Thermal-Creep** [Sie00]. **thermally** [MY07, RWMK03]. **thermo** [BZ04, KK03a, KP08]. **thermo-** [KK03a]. **thermo-acoustic** [KP08]. **thermochemical** [KW08b]. **Thermodynamic** [GC02b]. **thermodynamically** [WAO+04]. **thermodynamics** [MY03]. **Thermoelastic** [BM01a]. **Thermohaline** [DOWB01, AT09]. **Thermomechanical** [SMGJ09]. **thick** [LSJA05]. **Thickness** [GC02b]. **Thin** [CMK+01, DDF01, DK02a, KK00c, TC01a, DJ04, ES03a, HKM08, JN07, LSJA05, LHGF05, MC06b, MK04b, MO06, SA06, SRX07]. **thin-structure** [MK04b]. **Thin-Tube** [KK00c]. **THINC** [Yok07]. **Third** [Boy02a, GST02, RDPN07, YC09b, CT09, Fox08, Hub07, ZKDT07]. **Third-order** [YC09b, CT09, Fox08, ZKDT07]. **Third-order-accurate** [RDPN07]. **Thomas** [PM00]. **Three** [AKV00, ART04, BFC04b, BZ09, BCMO01, CRB00, CMOV02, DIL03, DK02a, DOWB01, FVOMY00, FS00a, FS00b, FKK08, HD07, HK01, KP00, LL00, LTZ02, LK01, LDV08, Lou00, MC02, NTB07, Pai01, PKKL05, PWS+02, PA07b, Saf00, SHWW00, SJ02, SS07b, Sni01, SS01b, WK01a, YXLF05, YW07, Yua02, ZSP02, ZYC02, AvdB04, AK05, AV03, AC05, AMS04, AMSZ07, BS04c, BBK07, BHP07, BCI+08, CM06, Che04, CCG+06, Che07, CFGK05, Dim07, DLP08, DLW06, Eli07, EES09, FNS07, FRS08, FCGK05, GG04, GS08, GS09b, GB03, GP04, GWF+07, GH02, Gro07, GD06b, HZGB05, HP04a, HS08a, HLWW04, HLWW06, HWW07, HB05b, IHL03, JVVS07, JW03, KKS05, KAK03, KLP+09, LWP+09, Lee03, LZ09c, LDPL08, LT09b, LVW06b, LL08a, MCG08, MRRS05, MSJ07, Moo03, Moo07, MT07b, OLLL03, Pon09]. **three**

[RB05, RS06b, SBCL06, SCRL08, SG03b, TTZ03, TM05, TXCD07, TT04, TT05a, TC07b, TC09b, TG08, TT05b, TA06, UL06, Wag05, WK04, WW04, XG09, YAvdB+08, YBZ04, YKK08, ZP05, ZH09, ZLAC05, ZT07b, LMS02]. **three-body** [SG03b]. **Three-Center** [Saf00]. **Three-Dimensional** [CRB00, CMOV02, DK02a, DOWB01, FVOMY00, FS00a, FS00b, HK01, KP00, LL00, LK01, Lou00, MC02, Pai01, PWS+02, SHWW00, SJ02, Sni01, WK01a, Yua02, ZSP02, ZYC02, ART04, BFC04b, DIL03, FKK08, HD07, LDV08, NTB07, PKKL05, PA07b, SS07b, YXLF05, YW07, AvdB04, AK05, AC05, AMS04, AMSZ07, BS04c, BBK07, BHP07, BCI+08, Che04, CFGK05, Dim07, DLP08, Eli07, FNS07, FRS08, FCGK05, GS09b, GB03, GP04, GWF+07, Gro07, HZGB05, HP04a, HS08a, HWW07, IHL03, KKS05, KAK03, KLP+09, LWP+09, Lee03, LZ09c, LDPL08, LT09b, LVW06b, LL08a, MRRS05, MSJ07, MT07b, OLLL03, Pon09, RB05, SCRL08, TM05, TXCD07, TT04, TT05a, TC07b, TC09b, TG08, TA06, UL06, Wag05, WK04, WW04, XG09, YAvdB+08, YKK08, ZP05, ZH09, ZLAC05, ZT07b, LMS02]. **three-dimensions** [TTZ03]. **three-space** [TT05b]. **Threshold** [ET06]. **Thresholding** [RM01b, Moo03]. **throat** [CGH05]. **Thuburn** [TR07]. **Thue** [WWVG00]. **tilted** [DDGS09]. **Time** [AGH02, ACS00, BJM02, Bar02b, BKR+01, BS00d, BCVK02, CN05, CM02, DOW08, Dur08, FD03, FKLY07, FMD+09, Gen01, GHV00, Gui02, Hig02, KC00, KDW08, LBV01, LR01a, LP06a, Mad06, MBP00, MT01, MHPR08, NU09, Nys02, POS00, PM00, Rem00, RTT01, RB02, VG01, VR02, YP01, ZTZ02, APT09, AKV06, AFGM07, AB07, AK07, AG09, ACLS03, Ata04, Bal08, BBHM09, Bar04, BHNPR07, BHvdV06, BSW05, BH05, CWT00, CCJ07, CT08b, CS08b, CL07b, CJK+03, CJ07, CFP06, CFJ06, CVE06, CFP08, DDD05, DR06, Den07, DL04, DWLM09, DKS+03, DLP08, DGRS08, DDDC07, ELVE07, FK07b, FH03, Gab07, GGF03, GvH06, GN03, GP04, GK07, GD07b, HS07a, HR08, Han00, HC08, Hig05, HDBW05, HJM+05, Hua07, HGB+03, ISNY05, JG09, JMC03, KN09, KvdVvdV06a]. **time** [KvdVvdV06b, KvRvdVvdV07, KCMM03, KLM07, KT05, KWD07, KB08, KSGF09, LSL08, Lap04, Lau04, LWG03, LTE07, LP04a, LLL07, LXM09, LX07a, LT09a, LCS09, LS09, Liv07, LGM08, LJ07, Low04, LB04, MLSD07, MKOW04, MY06b, MELD08, MU09, MC07b, MPFC08, MK07, OS04, Ols07, Ols09, OK06c, OK07a, OPML07, PAD07, PH09, PR04b, PMP08, PA07b, RBSL06, RVDM09, RSS09, RCD05, RRW05, RSO04, RJM07, RMV03, RJ04, SROCFF03, SHWC07, SWZ03, SL07b, SC09a, SK08b, SV07, SHPC09, SK06, TZHT04, Ten03, TSB03, TCN09, TDGP06, UBRT07, VPMC04, VW02, VCG03, VSH04, VS07, Wag05, WG08, WRu03, WS04, WC08, YA05, YZW05, ZSW03, ZSW07, ZYC02, ZYL+06, ZH09, ZZ09, ZRR00, dSHHM05, dHRvdB07, vZdBB07, vdVvdV02, vdVX07, vdV08, HW02]. **time-accuracy** [GGF03]. **Time-Accurate** [KC00, LP06a, MY06b, OK07a, RVDM09]. **time-adaptive** [CFP08]. **Time-Dependent** [AGH02, ACS00, Gen01, RTT01, VR02, FD03, FKLY07, AFGM07, ACLS03, Ata04, CJ07, DL04, DKS+03, GN03, GP04, GK07, HDBW05, LWG03,

LP04a, LB04, MU09, OPML07, RCD05, SV07, Ten03, WRu03, WS04].
Time-Domain [GHV00, Rem00, YP01, Lau04, LT09a, LJ07, MLSD07, MPFC08, PAD07, SHWC07, SWZ03, SL07b, VPMC04, VW02, Wag05, WC08, ZH09, dSHHM05, dHRvdB07, HW02]. **Time-Driven** [VS09]. **time-evolution** [DDD05]. **time-fractional** [LX07a]. **Time-harmonic** [MHPR08, APT09, AG09, BHNPR07, DLP08, Gab07, GD07b]. **Time-independent** [CN05, CCJ07, CJK+03, Lap04, LTE07]. **Time-Integration** [BKR+01, OS04]. **Time-Line** [Gui02]. **Time-parallel** [FMD+09]. **time-periodic** [MKOW04, vdV08]. **time-resolved** [Bar04]. **Time-reversibility** [DOW08]. **time-reversible** [PH09]. **Time-Scale** [LR01a, VG01]. **time-space** [LS09]. **time-split** [SK08b]. **Time-Splitting** [BJM02, MBP00, HJM+05, KN09, TCN09]. **Time-Stable** [Nys02]. **time-staggered** [SK06]. **Time-Stepping** [Hig02, RB02, ZTZ02, Mad06, DR06, HR08, Hig05, LGM08, MPFC08, VSH04]. **Times** [QS01, Del03b]. **Timesaving** [SMSS07]. **Timescale** [Bar02b]. **timeseries** [CVE06]. **Timestep** [Car01]. **timestepping** [HSBG05]. **timesteps** [Pet07]. **tissue** [HK08c, KL06, XDB09]. **Title** [Ano00-28, Ano01-28, Ano02-28]. **TM** [DZ09a, ZW05]. **tokamak** [HJKO08, LL08b]. **tokamaks** [CTS07, LGKP07]. **Tomography** [CBB01, HCG01, BO05, CCT05, FLE03, IKL+08, RR07, TMND07, THN+07]. **tongue** [SP07]. **tool** [ASQR06, FK09b]. **Tools** [KT02, Küm04b, LH08a]. **Topography** [Hor02, BGN03, FG07, GPC07, Geo08]. **topological** [BHR04, HKO07, VCG03]. **topologies** [KT05]. **topology** [AS05b, AA06, Bey09, LTWW07, LLC+08, LTM09, WLKW07, ZL08b]. **topology-preserving** [AS05b]. **Toroidal** [GST00, KP00, ZYKW01, BT07a, BT07b, CTS07, ORM06]. **total** [CT04, CCT05, SLG+03, YMW06]. **total-energy** [SLG+03]. **Tracing** [LM01, LM03a, MJT06, MCP03, THN+07]. **Tracking** [Asl01, ČPT01, CSP01, JC02, NSC09, SJ02, TNGH02, TB00b, THS07, TBE+01, ZH01, AMS04, BR09b, Che04, DDS09, DFG+06, Fan08, FCD+06, GNNB08, HSL08, KLSW09, LLP07, LS08, LDW07, LLGL07, LHGF05, kM07a, MT08, NT07, PP04, PMP08, QS07, QLS09, SPM03, Shy06, SB07, TZ06, Vol04a, WKB07, ZKDT07, ZEA06, ZL08a]. **tracking/front** [dSMN+04]. **tracking/ghost** [TT09]. **traction** [Liu09b]. **traditional** [Kas07]. **traffic** [LGN05, ZSWW03, ZWS06]. **trajectories** [DDD05, MESV09]. **trajectory** [NSS03, TW03]. **Transfer** [BS00b, BW01, DK02b, Gen01, IYI+02, LTK+02, Cha07a, Cha07b, CS03, DL04, DUEB07, FDK06, FKLY07, HL04, HC09, HDBW05, JJGL06, JJGL07, KM03, KNH05, LSA06, LCNR07, LR03, MHB08, MELD08, MU09, MR07c, MAN+06, PS07c, RW08, Thö04, TFDK04, WHS08, WMH07, YLD09, YSW06]. **Transform** [BTSM09, AB05a, CdHST08, HSQ03, KOQ08, OLLL03, SB06a, SS09a, WK06, ZGSD06]. **transform/potential** [HSQ03]. **transform/potential-theoretic** [HSQ03]. **Transformation** [MBM01, DT03, HHMK05, KR09a, SK05, WS04, ZKDT07].

transformation-free [KR09a]. **Transformations** [Saf02]. **Transformed** [Eli02, Eli03, Eli07]. **Transforms** [SS00, Kry04, VBJ08a, VBJ08b, VB08, WJV07]. **Transient** [CMR08, HLS02a, LWEM00, AFGM07, Hag07, JG09, Kwo08, MR07c, NPH09, PKD07, SO08, vOP04]. **transients** [CGMS03, FF03]. **Transition** [BRL02, GP00b, DJM05, EKP06, GC06, JOS06, LSL08, LZ04, Liu08, LD09b, Sus06, ZT03, vEB05]. **transitional** [DS06b, JD04]. **Transitions** [EKK02]. **Translation** [GM01c, GD07b]. **Transmission** [Wu01, BNV08, BS04d, PSH$^+$08]. **Transonic** [EAY01, MSJ07]. **Transparent** [AST07, DKSW01, FSY00, SFY01, YFS01, dSHHM05]. **Transport** [AS03b, AL01, Azm02, Bal02, Cul01, DV02, DB00, FW07, GHG01, MD04, MGGH00, Noe00, OF02, UH01, ZZ01, ZKK01, deM02, AT05a, BP06, BMN07, BCCV09, BES07, BS07, BNNP06, BMDS05, BSP06, BH05, CL03a, CL05, CL08d, CLL$^+$07b, CS04, DMBS05, DGM07, DL03a, DUEB07, DC08, FWP09, FH07, GS05a, GS05b, GS08, GC06, GYKL05, GLT07, GL09b, HLFB07, HJKO08, HF08a, JLT06, JSCZ08, JN07, KB04, KL06, KAS08, KS08b, LZT09, LRMB08, LFX05, Li08a, LD04, Mac07, MBS03, MGNB09, NSS03, NZ05, Ols09, PA05, PL07, RRC05, Rom07, RF06, Ros09, SZ08, STD$^+$05, SCC$^+$03a, SCC$^+$03b, SY08, SXyWX09, TX06, TMSW07, TFD06, TA06, UBRT07, WR09, XP04a, XDB09, Yeh07, YE05, ZWS07, ZEA06, Zie04, dA04, dDEK09, dFGLS05, DW00]. **transport-diffusion** [DUEB07]. **Transport/Advection** [DB00]. **transport/reaction** [STD$^+$05]. **Transportation** [XY01]. **transported** [MJ07]. **transpose** [JH08]. **transverse** [LKD04]. **Trap** [BMS00]. **Trap-Assisted** [BMS00]. **trapped** [LMK03]. **Traps** [Whi00]. **Travel** [QS01]. **traveling** [EV03, MJ09a]. **travelling** [Boy03]. **traveltime** [TMND07, THN$^+$07]. **traveltimes** [QL04]. **Treating** [SHS02, MP07b, WG06, YHCD05, YW07]. **Treatment** [CL02, ELC02, HK00, Li08b, ML01a, MC00b, ZCMI01, AT05a, CVB06, JL04b, LL07, LP04b, MY03, PSG05, SB06a, SAK05, TA06, WAO$^+$04, ZJWC08]. **treatments** [JSCZ08, KY08]. **Tree** [BADG00, WPM$^+$02b, COQ06, Pop03]. **tree-based** [Pop03]. **Treecode** [LK01, LJK09, Wan04b]. **trees** [ARRS09, CMP07]. **Triangle** [BM01b, GW05, Gir06, Hei05]. **Triangle-Based** [BM01b, GW05, Gir06]. **Triangles** [CDKP00, PR04a]. **Triangular** [HL01, WB01, FD07, GGMN$^+$09, Jar04, KI05, KDW08, LGHD08, LSSV07, LNXNTX09, MJT06, Pon07b, SPM03, YJL$^+$06, YJ06]. **Triangulated** [Car02, KOQ08]. **triangulations** [CP08]. **triaxial** [San03]. **Trickle** [PCCD00]. **tridiagonal** [PSH$^+$08]. **tridiagonalization** [WR09]. **trigonometric** [QM03]. **Trim** [BTSM09]. **Trim-to-Coherence** [BTSM09]. **Triple** [FK09a, KKGL01, Liu09c]. **Triple-decker** [FK09a]. **triply** [JCT07]. **triply-periodic** [JCT07]. **troposphere** [MM09]. **Trotter** [MC07a]. **Trouble** [Boy05b]. **troubled** [BAMD07]. **true** [HAP06]. **truly** [GS03d, LMX$^+$08]. **Truncation** [HNGB04, Yam01, Jon05, KK09, Lap04]. **trust** [BC08, HE07]. **trust-region** [BC08, HE07]. **Tryggvason** [Khe04]. **Tsallis** [FH02]. **TSFP** [Ano04-27]. **TSFP-4** [Ano04-27]. **tsunami** [FNBB$^+$08]. **Tube**

[KP00, KK00c, Sie00, Low05, ZEA06]. **tubes** [TX06]. **tumor** [ML05, ML06a]. **tuned** [HP04b]. **tunnel** [SSW+07]. **tunneling** [DGM07]. **turbid** [Bar04]. **Turbulence** [BRL02, BZB00, FLG01, FSM+01, KP00, LS02c, LP02, Pir02, SLY02, SPW+00, BB09a, BL09c, CP07, CC05, DDH05, DLD08, DS09b, GBB+06, GS09d, HHPW08, HHMK05, HM04, JOS06, KMID05, KMSH08, KAS06, Lar09, LDN04, LQ06, MTWW06, MC06a, ML06b, PHW08, SKWN03, SCC+03a, SCC+03b, TWM07, TMD07, UPKN09, WGRA09, YSO07, YGL05]. **Turbulent** [EAY01, GMB01, JPMC01, LS02a, MK02b, MPC01, MPC02, PPC00, SS02, TSB01, AGW07, BFB08, BIVC07, CRAG07, CMP07, CZ09, DMP08, DBBP08, DS09a, DHM07, FE04, Gra06a, Gra06b, HPD09, HM05, HO03, IK07, KIH09, KIHM09, KM06, KM07b, LP06b, MLM09, MJ09b, PPDM08, Pro05, Pro07, RJ06, SS07a, SJHM09, SFMP06, VC03, VV03, XLP05, YB06]. **TVB** [BBCT09]. **TVD** [GC01, HL04, KT04, PL09b, SPGR06, YL01]. **TVD-interpolating** [HL04]. **Two** [AJG01, ART02, ACS00, Bar02b, BMR01, BMRS02, BdLL01, BZW01, BH05, CFA01, Cal02, ČPT01, Cle00, CD00, DCV+01, EKK02, Eli02, EF02, FT01, FS00a, FS00b, GS02, GW01, Goe00, GP00b, GKL03, HLS06, Hig02, JWSC00, KK00b, KLvBvL02, KMHR00, LKD04, LG09, LTZ02, Low05, LWEM00, Mai01, MR04, Nys02, ODAF06, OS01, PKvdB00, PS01, RC06, Saf00, Saf02, SWL00, SS04, SP00, TC02, TGB+07, Tow07, VD02, WK01a, WL02, WB01, Xu01a, YSS07, ZYC02, ARRS09, AV03, AW04, AT09, AMS03, BTW04, BM07, BW07, BH04, CGRGV+04, CA06, CHL06b, CSO09, CSL08, CY05, CMR08, CC08b, CDV07, CkM07, DMBS05, DM03, DDK06, DP07, DP08, DCF+08, DSS07, DDS09, DS09b, DR09b, EGHE06, Eg07, ECL02, Eli03, EES09, EF03, FRS08, FJ09, FHLK05, FCT07]. **two** [GS09a, GGP06, Gro06, GR07, GD07a, Gui05, HT07, Hel05, HLO08, Her05, Her08, Hig05, HZ07b, HB05a, HT03, HH06, IOTK04, JA08, JBF07, JX06, JN07, KSHS08, KLM05, Kro01, LCB04, LLP07, LSD07, LL05, LS05a, LT09b, LMS08, LTC07, LP04b, LM03b, LHGF05, Ma05, Mai03, Mai04, Mai09b, Mai09a, kM07a, MR06a, MMS04, MR05, MST06, MP03, Men04, ML06b, Mou04, MGNB09, MG05b, MAL09, Nit05, OK05, OKZ07, QA09, QLK07, QS07, RMB07, Ram06, RRC05, RMG+09, RMF08, SWK06, SY09a, SS06a, SYC09, SL03, Shy04, Shy06, SSND03, SXyWX09, SSH+07, TM07, TOZP03, TTZ03, TMB07, TM05, TPV07, Tol08, VVS08, VCG03, VD03, WZL04, Wen09, WO09, YZ07, YYT05, YBZ04, YF09, YE05, ZLAC05, ZHSS09, vBK03, Cap06, JW02]. **Two-** [FS00a, FS00b, ZYC02, TTZ03, ZLAC05]. **Two-Body** [Mai01, Mai03, Mai04]. **Two-component** [SS04]. **Two-Density** [OS01]. **two-diagonal** [Tol08]. **Two-Dimensional** [AJG01, ART02, ACS00, BMR01, BMRS02, BdLL01, BZW01, Cal02, CD00, DCV+01, Eli02, Goe00, KK00b, LWEM00, PKvdB00, VD02, WL02, BH05, LKD04, LG09, MR04, ODAF06, RC06, ARRS09, AT09, BTW04, BM07, BH04, CSO09, CY05, DCF+08, DS09b, ECL02, Eli03, FHLK05, GGP06, Gro06, Gui05, HT07, HT03, JX06, JN07, KSHS08, Kro01, LSD07, LS05a,

LT09b, LTC07, LP04b, Ma05, Mai09b, Mai09a, MMS04, MST06, MP03, Men04, MGNB09, RRC05, SSND03, SS04, TM07, TOZP03, TM05, TPV07, VVS08, VCG03, VD03, WZL04, YYT05, JW02, Cap06]. **Two-Electron** [Saf00, Saf02]. **two-equation** [ML06b]. **Two-Fluid** [ČPT01, HLS06, KLvBvL02, TC02, CDV07, EF03, FJ09, Hel05, JBF07, QA09, SL03, Shy04, vBK03]. **two-layer** [CGRGV+04]. **Two-Level** [Hig02, CSL08, Hig05]. **two-medium** [QLK07]. **Two-Phase** [CFA01, ČPT01, Cle00, EF02, GS02, GW01, GP00b, PS01, SP00, Xu01a, Low05, TGB+07, YSS07, AW04, AMS03, BW07, CA06, CMR08, DM03, DDK06, DP07, DP08, DSS07, DDS09, EGHE06, FRS08, GR07, GD07a, Her05, Her08, HZ07b, HH06, IOTK04, LL05, LMS08, LM03b, LHGF05, Mou04, QS07, RMB07, RMG+09, RMF08, SWK06, SY09a, SS06a, SYC09, SXyWX09, SSH+07, TMB07, YZ07, YF09, YE05]. **two-phase/vapour** [BW07]. **two-point** [Eg07]. **Two-Scale** [EKK02]. **two-species** [LCB04]. **Two-Sphere** [KMHR00]. **Two-Timescale** [Bar02b]. **Two-Way** [FT01, WK01a, CC08b, GS09a]. **Type** [Gui02, Han00, HT00a, HT00b, Shy01, WH02, AINR03, BP03, BSLN09, CLS05, CS07a, FNBB+08, GGCC09, Hel09b, Lar07, LNGK04, LG05, sLwG08, LLOT06, LCS09, Löh04, NJX09, NF09, PSD09, PL09a, Shy04, TD07, Wen07, WF06, XXS07, XLS09a, AT05b, CJR04, JHZ+09, LD04, MN09a, PK03, TB06, XHW07, vBK03].

Uhlenbeck [Del03a]. **Ultimate** [Abg01, VU04]. **Ultra** [HMK02, BH09, BMK+06, HMM07, KQW03a, KQW03b]. **ultra-relativistic** [BH09, KQW03a, KQW03b]. **ultra-violet** [BMK+06]. **Ultra-Weak** [HMK02]. **ultrashort** [Sau04]. **Unbounded** [CR02, BHNPR07, BP08, DD03a, DD03b, HZ08, VZSL07]. **Uncertain** [Hor02, EN06]. **uncertainties** [AA07, AA09, LSK06]. **Uncertainty** [BPM06, CGH05, CDE06, KG06, LKNG04, Ler06, PDL09, YZL+06, CDI09, DEHL06, LNGK04, LK07, PIN09, XK03, XS07]. **Unconditionally** [AB03, Azm02, CYKC01, JTL09, KR02, ML06b, NFGK07, ZZ01]. **under-resolved** [TV08]. **undergoing** [CGDT09]. **Underresolved** [CS01b]. **Understanding** [DWC+09]. **underwater** [FRS08, KS08a]. **Unequal** [Zha02]. **uneven** [DL03b]. **unevenly** [Mil05]. **Unidirectional** [dSHHM05]. **Unified** [HK01, KAA+07, Wu02, Xia04, XAI06, DBTM08, FK09b, Jia07, JX07, LZ04, Meh04, MY03, SW08c, WD07]. **Uniform** [SV00, Cap08a, FCT07, HKG08, Hu05, HSS07, ISNY05, KK03b, LCG07, NVD07, SZ05, STZ07, Tor03, TB04, Vas00, VSW06, YA05, ZIP06, ZT03]. **uniformity** [NVD05]. **Uniformly** [BLM08]. **unifying** [WG09]. **Unit** [VQSZ02, Hei04, JA08]. **units** [ALT08]. **unity** [GLN06]. **Universe** [BADG00]. **Unlimited** [NT07]. **unmagnetized** [MD04]. **unsaturated** [LMH07]. **unscented** [IKL+08]. **Unsplit** [Hu01, CCF+05, EB06, GS05b, GS08, LD09a]. **unstable** [AZ05, FCT07, GKE04, KG03]. **Unstaggered** [GHV00]. **unsteadiness** [CGM07]. **Unsteady** [BMRS02, BMQS02, BCVK02, BL01, BGN03, GSD01,

KC00, LHD05, QV01, VC00, WB09b, ZYC02, AM03, BLM04, BCI+08, CTW+08, DT04, DPRN05, EHD08, GS07, GMAj09, JMC03, KZ04, LDPL08, LF05, LKX04, LGM08, LZH+06, MLS+05, MGNB09, NJX08b, Pon06, RDPN07, SC08a, SFE07, SY03, TZ03, TZL05, TJS03, Tsy03, VBL03, Wan05, WM07, WGS+08, XYK05, You06]. **Unstructured** [BM01b, BW01, DV02, DPCV02, Edw00, HZ07a, HW02, JK00, KC00, LM01, MVM02, Mav02, ML01a, MD06, MG02, OGV02, PW00a, Per00, SC01, SMP01, Wan02, WL02, Wan05, WPH00, WB01, ZSP02, ZTZ02, ZQSD08, dSAK00, AZC05, AB05b, BFB08, BES07, Ber06b, BS03a, BM07, CKvT07, CDDL09, CSO09, CP08, CSKD05, DSM09a, DMR09, DK07, DKTT07, DBTM08, DZ09b, GS09b, HZGB04, HZGB05, HWL08, HV03, HNF07, Her08, HHMK05, JH06, JMC03, JS05, KT03, KT05, KE09, LM03a, LCH03, LK09, LJW09, LSS06, LSSV07, LVW06a, LVW06b, LLB05, LBL06b, LBL07, LZH+07, Mai09b, MB04, MCP03, NOG08a, NOG08b, NJX08b, PL09b, PN03, RAD07, RRW05, RWWS07, Ros09, SS05b, SP06a, SP06b, SWL06, TZ03, THD09, TT06c, VSW04, VSW06, WZL04, WLC+06, XLS09a, XLS09b, YJL+06, YA05]. **unstructured** [ZLAC05]. **Unstructured-Grid** [SMP01, SS05b]. **unstructured-multigrid** [LZH+06]. **Untangling** [VGS04]. **Update** [Xu02a]. **updated** [GCCD07]. **upper** [GG09b, MM09, ZK04]. **Upscaling** [DGH08, EPW08, Kou07, Nov04, PC06a]. **upstream** [ST03a]. **Upwind** [CRD02, Hwa03, PD01, STiST02, WB01, AD04, BGN03, BL03, Cap05, Cap06, Cap08b, CS09, DE06, IM07, JAK05, KK07, LWW04, LJ09b, LD04, PYC04, RS06a, RB09b, SGD03, Ser09, SS09c, SS05c, SB03, WZ03, ZYHS07]. **upwind-biased** [JAK05, PYC04]. **upwinding** [CD03, XD07, ZKDT07, ZR08]. **UR** [Har04]. **Use** [DPRS01, MD02, PS02, TK00, VG02, DTMS06, Dic08, GS03c, KFIG06, NLT07, RB06, RBSL06, Ram03, SPLM09, VTW+07, WG08]. **used** [KN09, Kau03]. **Useful** [Saf02]. **Using** [AC01, AZ05, BM02, BC02a, BMRS01, BMRS02, BT02, BRL02, Bon00, Bow01, BCMO01, CS01a, CBMO02, CSV00, CL02, CL00b, CB07, DDD05, DGH02, GW02, Gos02, HAAO00, HHL00, HR01, HF01, HPZ01, KMA+01, LS02a, LBV00, LP02, LLQ+02, MR00, MKM99, PM02, PR01b, RS02, RRL01, Saf02, SSSWD00, ST01, SJ02, SSD00, TK02, TR02a, TTSG01, hRT02, WPH00, Whi00, WHV+00, ZYC02, ZF02, ZKK01, APP+07, AMH04, AJT04, ÁDIM09, AA06, BLS08, BS04a, BBD04, BIS07, BPO07, BG09, BT09, BCGR05, BJP04, CJLS09, CWJ07, CPG04, CR08, CQO04, CM06, CP04a, CCT05, CEL06, DMHP07, DDK06, DK06, Del03b, DL03a, DW09, DS09a, DST07a, ELD08b, EKP07, FT05, FW07, GMD03, GGS09, GWF+07, GKJW07, Gri09, GLLN09, GYKL05, HPS06a, HZ07a, HBHS09, HSBG05, HKS09]. **using** [HS08a, HSZ04, HL07b, HSL08, HF08b, HMM07, IKL+08, IM05, ISNY05, JW09, JS05, KKS05, KW08a, KIH09, KK05b, KH07, KYLB07, KZ06, KF06, KR09b, Küm04b, KLP+09, LDN04, LKNG04, LWG03, LCG07, LM08b, LAKD08, LK09, LDL+09, LNXNTX09, LY04, LBL04, LTWW07, LTL+09, LTM09, MKM04, MR06a, MGCR07, MPD08, Men04, MC03, MGS07,

MCN03, MR07c, MHW05, NJLA06, NM06, NI03, OJW06, PS03a, PM07, Pon07b, Pro03, RRC05, RA09, RBT03, Ros09, SRM09, SDR07, SP04, SL04, SO08, SL07b, SAKDJ05, SZ05, SNLS03, SSND03, SCW+09, SGG+04, SP05c, SJC07, SDT08, SFMP06, zSW06, zS06, SB07, TZ03, TZL05, TLK07, TZ07b, TZ07c, TFD06, TBJ+09, TGB+07, TdAAP08, VCG03, VS07, WL03, WWC07, WLC+06, Xia04, XAI06, XYK05, YM07, YFLS06, YYT05, YSO07, YGL05, YZF+06, ZGT06, ZG08, ZC09, ZKS+09, ZSTC06]. **using** [ZQSD08, ZQ09, dTDI+07, dCNHSD07, vdBG09]. **UV** [Bor03]. **UV-suppressed** [Bor03]. **Uzawa** [BT02, PS07d].

V [LVW06b]. **vacuum** [CTS07, KSHS08]. **valid** [CTS07]. **Validation** [BP08, MHS02, OB06, BT07b, BCM+07, MvW08]. **validity** [WZ07]. **VALIS** [SA09]. **Value** [DKX00, DKX01, KJ01, OKL01, ABLS05, BM05, BS05, Eg07, FF03, Kas07, PSM08, RMGK04, SN06, YH07a, dCNHSD07]. **Valued** [MF01, JLOT05a, LW07]. **valve** [vLAvdV06]. **Vanishing** [KK00a, PSZ09, SS07a]. **Vapor** [JLCD01, JWSC00, JW02, AMH04, JW03, Sus03]. **vaporizing** [TMB07]. **vapour** [BW07]. **Variable** [Alb00, BR09a, GQ00, SBGK00, Wan04b, AT09, Ber04, BK08, BRP05, CCG08, DBBP08, FG07, Geo08, GS09c, GD05, HyLL07, HL05, IQ08, KKM08, KKS05, KLP+09, LT05, LP06a, MGC06, MDR07, Ni09, OK06a, PS03a, PS07d, RVM07, RVDM09, SD05a, SD05b, SHTB09, TBT+09]. **variable-** [BRP05]. **variable-density** [AT09, SD05b]. **variable-node** [KLP+09]. **Variables** [AD01, Hu01, BB07b, Hau08a, Hau08b, IA06b]. **variance** [DL03a, HH07c, VU04]. **variance-conserving** [VU04]. **variant** [GvH06]. **variants** [JHZ+09]. **variates** [GL09a, HKM07]. **variation** [CT04, Kar04]. **Variational** [BCOS01, DCS00, DL03a, Hua01b, HS03b, HMK02, Lap04, Li08b, MN02, NZ05, WGRA09, AZ06, Aza06, CM06, CCT05, FDL08, GZ07a, Gra06a, Gra06b, HMM07, JCT07, MSO04, WSTW09, YFLS06, ZHSS09, ZL08b]. **variations** [Soc03]. **various** [GMO04, PL07]. **Varying** [CKS00, AKLMP09, GTMC08, Kou09, TZHT04, VCZS04]. **Vector** [BS01, CSV00, Whi00, BO05, CJ09, DQ04, FWR07, IA06b, JVVS07, LY07a, MBS03, OCFF08, QA09, RRW05, SR09a, SJD05, ST03a, YHSX07]. **Vectorial** [GBGM01, FCJ08a]. **vectorized** [FLE03]. **Vectors** [VSMW01, AL06, RMB07]. **vehicle** [ELD08b]. **velocities** [BFJ03]. **Velocity** [BRL02, Cul01, DC01, FPK08, MM07, MC07a, MF00, Mie00, BL09b, BHR03, CFS09, Car09, CEL06, DBS06, GD07a, GK05, KM06, KM07b, LY04, MC06b, NMS07, Pap08, PM08, Pon06, SH07a, SLC07, SS05c, Tan08, TG04, WFC09, WS09, YAvdB+08, ZSC07, ZXQX08]. **velocity-estimation** [PM08]. **Velocity-induced** [MM07]. **velocity-pressure** [NMS07, Pon06]. **Velocity-Vorticity** [DC01, LY04]. **Verification** [MPD08, Roy05, Tak06, WLC+06]. **Verified** [HPD09]. **Verlet** [MC07a]. **versatile** [HHC08, MDB+08, NC04]. **Version**

[MR01, GH02, GHMP07, LCM07, VMN07, XAI06]. **Versus** [Mav02, ABHT03, NVD07]. **Vertical** [BRL02, TW05, TR07, FCT07]. **Vertically** [MM09]. **Very** [DZ09b, GSV09, NK08, STZ07, TR02a, DET08, Heu03]. **Very-high-order** [GSV09]. **vesicle** [DLW04, DLW06, ZDD09]. **vesicle-substrate** [ZDD09]. **vesicles** [GFG09, VGZB09, VGBZ09]. **vessel** [CGN+07]. **VI** [SWL06]. **via** [AS03b, BHP07, CFM09, Dim07, EE08, ES03b, GS05b, GS08, HS07a, JY08, JMK01, KK09, Kry04, LJS08, ML05, OVG07, OK07b, SW00, SKAS01, Sur05, TB00a, Tow09a, XK03, ZL04, ZSC07, ZW04]. **Vibration** [SCD00, SZC09]. **vicinity** [KZWY09, LL07, ZSW03]. **victoria** [SM09a]. **violet** [BMK+06]. **Virtual** [FHJK09, GJK09, Lee03]. **Viscoelastic** [PS01, APTJ+04, APP+07, BPL06, FD03, FKK08, LC03, MDM03, TdAAP08, TCM05, VC03, VCT09, YSS07, YZF+06, vOP04]. **viscoplastic** [BZ04]. **Viscosity** [Alb00, CS01a, ELW01, KK00a, LP00, SS03b, BL09c, CLG07, CL06a, Cho05, CC04, DLD08, JA08, KKS05, KR09b, Mac03, MLM09, Nov04, Owe04, RBH03, RMSB09, Sar03, SS07a, SK04a, TLL+08, VHI06]. **Viscous** [CKR00, CKR01, CPK02, GPH+01, Hun01, MK08a, PW00b, PW01, PSN00, QV01, RH01b, Sum00, TC01b, WPW02, Xu01b, ADR08, BL09b, BF08, BTW03, CN05, DS06a, DND06, FP08a, GXW07, GH09, GGS09, GGF03, GMD07, GGP06, GN07, HEN09, HL07c, HSL08, HLY09, JX06, JX07, KR09a, Kel05, LKP06, LLL07, LKO05, LX07b, LDV08, NBLQ09, NJX08a, PKD07, PSC+06, PWM06, RW03, SROCdPFF05, SC08a, SZC09, SY03, SWL06, SK03, TZ03, TZL05, TLL+08, VGZB09, VGBZ09, VD03, WFC09, WB09a, XH03, XMT05, Xu08, ZKY05]. **Viscous-Plastic** [Hun01]. **Visibility** [TCO+04]. **visible** [BMK+06]. **vision** [FSS03]. **visual** [Asl04b]. **Vlasov** [AV02, BS03a, BLG+08, CDL05, CLS09b, Eli02, Eli03, Eli07, EB06, FBFF00, FSB01, GHB03, GS06b, HZ02, HF01, HGB+03, IITV07, IKS+09, KB04, MCCT02, SG06, SA09, VVM05, VTC+07, WO05, WO09]. **VOF** [AZB09, GMD03, GW01, LHGF05, LF04, MZ07, Yok07, ZTZ02]. **VOF-model** [LF04]. **void** [TU04]. **voids** [AIR03]. **Voigt** [CPG04]. **Volume** [Ano00s, Ano00t, Ano00u, Ano00v, Ano00w, Ano00x, Ano00y, Ano00z, Ano00-27, Ano01s, Ano01t, Ano01u, Ano01v, Ano01w, Ano01x, Ano01y, Ano01z, Ano01-27, Ano02s, Ano02t, Ano02u, Ano02v, Ano02w, Ano02x, Ano02y, Ano02z, Ano02-27, Ano03-27, Ano03-28, Ano03-29, Ano03-30, Ano03-31, Ano03-32, Ano03-33, Ano03-34, Ano03-35, Ano04-28, Ano04-29, Ano04-30, Ano04-31, Ano04-32, Ano04-33, Ano04-34, Ano04-35, Ano04-36, Ano05-29, Ano05-30, Ano05-31, Ano05-32, Ano05-33, Ano05-34, Ano05-35, Ano05-36, Ano05-37, Ano06-28, Ano06-29, Ano06-30, Ano06-31, Ano06-32, Ano06-33, Ano06-34, Ano06-35, Ano06-36, Ano07-33, Ano07-34, AMSZ03, BM01b, CL00a, DKX01, DPCV02, HF00, Her00, HT00b, JM00, KC00, KKC01, KFV+05, KKGL01, LLH02, LLIK01a, LM01, LM03a, LSW08, LMSW02, MP02, ML01a, MPC02]. **Volume** [NTYT02, OGV02, PKP01, PW01, RRL01, RR02, SZ00, SBGK00, SP00,

Tol02a, Wan02, WL02, WW00, ZRR00, APTJ+04, APP+07, AZC05, AT05a, AT08, AKLMP09, AKO09, AMS03, BAFL09, BES07, BP03, Bot06, BKLL04, BLM04, CT09, CCG08, CMSZ09, CX08, CEH09, CSKD05, CR09, CZVS04, CFP08, DSM09a, DSM09b, De 04, DBF08, DK07, DKTT07, DET08, DBTM08, Dwi08, Edw06, EZ08a, FCD+06, FMR09, GPC07, GLM07, GV07, HBHJ08, HJ09, HWL08, HLO08, Her09, IX07, IX09, IDD04, JL04a, JLT03, JLT06, JL09, KDK+07, KLK08, Kok09, KS09, LSB04, LGP09, Lap03, LZT09, LYC09, LSSV07, LSV09, LVW06b, LHGF04, LH08a, LMNK07, LJ06, LZH+07, MP07a, MSJ07, MZ07, MGS07, MCP03, MR07c, MT07b, NOG08b, NBLQ09, NPPN06, NXS07, NGC+07, OK06a, OSK09]. **volume** [PL09b, PS04, PS08, PP04, PSG05, PL07, QM03, RJ06, Ros09, SE09, SJD05, SPM03, SMS04, SS06a, SL07b, Shy06, SMAj08, SC09b, SWL06, SR09b, Sus03, TVMR03, TPV07, TT04, TGB+07, Tor03, TA06, TAL09, VL07, VLW07, VBL07, VGPL09, VSW04, VSW06, WZL04, WL06, WTL08, WG09, WA08, XS06, XCRX08, XLP05, XLS09b, YS07c, YS08, ZKDT07, ZH04, ZZ09, ZLAC05, vDZ06, Lab09]. **volume-finite** [CCG08]. **Volume-of-Fluid** [AMSZ03, KFV+05, RRL01, RR02, SP00, AMS03, JL04a, PP04, Sus03, TGB+07, YJL+06]. **volume-penalization** [KDK+07]. **volume-preserving** [QM03]. **volume/difference** [WG09]. **Volume/PDF** [LM03a, LM01, MCP03]. **Volumes** [GW01, XMP07]. **Volumetric** [ZKL+07, KE09]. **von-Kármán** [YKG04]. **Voronoi** [GS09b]. **VORPAL** [NC04]. **Vortex** [BB04a, Car02, Cor00, CKS00, CMOV02, CP04c, HRV08, KK00c, LK01, MD02, MKM99, Nie01, Nit01, PW00b, PW01, PWS+02, SC08b, WK01a, Alb09, BS08a, CLB08, CWD08, CC08b, ECL02, Eld07, FDD09a, Her05, HSC09, LG03a, LG09, MKM04, NSC09, SZC09, SDT08, TB06, WG06, YSO07]. **vortex-dominated** [TB06]. **Vortex-in-Cell** [CP04c, CWD08]. **vortex-induced** [SZC09]. **Vortex/Impulse** [Cor00]. **Vortical** [DS01, LK07]. **vortices** [DJ04]. **Vorticity** [BRL02, Cal02, Che00b, DC01, IK01, LFS07, MGGH00, MF00, QV01, Tol02a, Tol02b, AKH06, BBvdV06, CL06a, DBS06, Eld08a, KJ09b, LL04a, LY04, Pon09, PGN08, WFC09]. **Vorticity-Based** [QV01, Eld08a]. **Vorticity-Divergence** [Tol02a, Tol02b]. **Vorticity-preserving** [LFS07]. **Vorticity-Velocity** [MF00, DBS06, WFC09]. **Vries** [CkM07, LGK06, LY06].

Waals [CL01a, GV02]. **Wachspress** [AC05]. **wake** [BC08]. **wakefield** [HDR+06]. **walk** [FG05, LLTA07, MS04, VSV03]. **Wall** [FG02, GGP06, BBW06, CP04c, FPK08, FGP08, GE07, HPD09, IK07, KMID05, KIHM09, KDK+07, KAS06, KB06, LQ06, MC06a, NTB07, PPDM08, SKWN03, SFMP06, SN08, Tuc03, MK02b, Rid00, RVVL09, Sum00]. **wall-boundary** [GE07]. **Wall-Bounded** [FG02, CP04c, FPK08, FGP08, HPD09, MC06a, PPDM08, SFMP06]. **Wall-driven** [GGP06]. **wall-function** [KAS06]. **wall-pressure** [KIHM09]. **walls** [TX06, VHI05, ZTPM05]. **Wang** [Del03a]. **WARP** [GWF+07]. **waste**

[KP07]. **Water** [BC01, BST01, Che00a, FR02, Gir00, GHW02, Hor02, LBV00, LBV01, Lay02, LLIK01a, LLIK01b, Tol02a, Tol02b, TTSG01, VS02, Xu02b, ZCMI01, AB07, AB05b, BST03, BN04, BES07, BRC+09, BTT08, BB09a, CVB06, CHL06a, CL08a, CGRGV+04, Che03, CX08, CLS09a, CZVS04, DJTT05, EKBL09, FG07, GPC07, Geo08, GPF03, GW05, GD05, HS09a, HC08, KJ09b, KLM05, LHD05, LGHD08, LS03, LHZW05, LKW05, LMNK07, Ma05, MY06a, Mea04, MGNB09, NI03, NPPN06, NXS07, ODAF06, RAD07, RB09a, SS03a, SHTB09, TOY09, VTT08, WTL08, XS05a, XG09, vdVX07]. **Wave** [AGH00, AGH02, BM01a, BS06a, BZB00, CS01c, CSV00, DF00a, Dur00, ERT02, FT01, GF02, HHCL01, HK02, Kan02, LL00, LMSV00, LTD04, LAS01, LWEM00, LH05b, Noe00, Rei00, RTT01, Vay00, Vay01, VR02, Wee02, ZB07, APT09, AK07, Ata04, BN04, BP09, BPO07, BO09, BG05a, BG09, BS04d, CHL06a, CL08a, CPG04, CCJ07, CWL08, CHG+07, CLS09a, CBI+04, CFGK05, DNS08, DS09a, Edw06, EV03, FK09b, FCGK05, GS09a, GFS08, Gom08, GGOB04, GA09, HMOG08, HLS06, HPS+06b, Jan08, JW06, KFH+04, KFIG06, KSH+06, KT06, KFV+05, Lau04, LP07a, LZL03, LG03b, LG04, LS09, Ma05, MN06, MHI08, Pir07, PSG05, RBL04, Ros06, SDD07, SK05, Shy06, SD06, TET09, Ten03, Thu08a, TC07b, TC09b, VWW04, Vol04b, Wan04a, XS07, Yan09, YS09, ZH09, Zhe07, dHRvdB07]. **wave-body** [YS09]. **wave-capturing** [Edw06]. **wave-current** [SK05]. **Wave-Propagation** [BM01a, Noe00, MHI08, Shy06, Vol04b]. **wavefield** [BST03]. **wavefields** [BCR04]. **waveform** [CSMH05]. **Wavefronts** [RMO00, Che07]. **wavefunctions** [Boy04, NG06a]. **Waveguide** [PR01b, BBD04, FH03]. **Waveguides** [CdHST08, TB00a, FCJ08a]. **wavelength** [VS07]. **Wavelet** [FHLK05, HK02, PR01b, VB00, AKV06, BLG+08, FH03, KDK+07, MK08b, NG06a, VK05a]. **Wavelet-Based** [HK02, PR01b]. **wavelet-MRA-based** [BLG+08]. **Wavenumber** [KLK08, TK00, CC04]. **Wavenumber-extended** [KLK08]. **Waves** [BST01, Bla00, Boy02b, DF00a, Gua00, MN02, OB02, PC02, SSC00, VCP00, Vay02, WPM02a, WC01, Wu02, AK06b, AM05, BAR08, BFJ03, BWLM09, BCZ04, Boy03, CF06a, CLMRP08, CS05, CDS04, Dur08, EV03, EKBL09, Fan08, FCT07, FG07, Gab07, GB08a, GN03, GP04, GS09d, HS09a, JY08, Kas07, LY07b, LM08a, LTD07, LP04b, MY06a, MLFG06, NB04, SB06b, SM05, Tsy03, VS09, Wan05, XG09, YM07, Yan08, vdVX07]. **wavy** [GMD03]. **Way** [FT01, FSY00, SFY01, WK01a, CC08b, GS09a]. **ways** [BZ09]. **Weak** [AGP01, BMQS02, DF00a, HMK02, KB01, PKvdB00, CP03a, HMM07, KT03]. **weakform** [LNXNTX09]. **weakly** [LMX+08, SE04]. **weather** [Lyn08, MS08b, SK08b, SW08c]. **wedge** [ODAF06]. **weight** [MBS03]. **Weighted** [AL01, Azm02, BS00a, BBK07, DZ00, MS01, SK08a, SM04, WC01, Yus06, BCCD08, CB07, HAP05, KLLJ09, LCW04, NF09, TWM07, ZSWW03, ZWS06, ZJS08]. **Weighted-Difference** [Azm02]. **Weighting** [Ver01]. **Weights** [SHS02]. **Well** [BES07, BKLL04, LMNK07, NPPN06, Xu02b, AB05b, GPC07, ILL09, Meh04, NXS07, Rah04, RF06, WSYS09, XS06]. **Well-Balanced** [Xu02b, BES07, LMNK07, NPPN06, AB05b, GPC07,

NXS07, RF06, WSYS09, XS06]. **well-conditioned** [ILL09]. **well-posed** [Meh04, Rah04]. **wells** [JL09]. **Wendroff** [LCS09]. **WENO** [Bal09, BRDM09, BK07, CVB06, Cap08a, Cap08b, CGMS03, CGMS06, CHB09, CS06, CS07d, CD07, CZVS04, GS06a, GR04, HP04b, HLY09, JD09, JC06b, KK05b, LSD07, LBL07, MTWW06, NJX08a, NXS07, Pir02, QS02, QS04, QS05, RLZ03, SHS02, SZS03, TT04, TB04, VS02, VCZS04, XS05a, XS06, XS05c, XLS09a, YC09a, YC09b, ZJ09, ZQSD08, GSV09]. **WENO-based** [LBL07]. **WENO-Boltzmann** [CGMS06]. **WENO-solver** [CGMS03]. **WENO-type** [XLS09a]. **wetting** [Gla05, SHTB09, YZ07]. **which** [IG05]. **whistlers** [LJM+06]. **Whitham** [ZSWW03, Boy03]. **Wide** [FSY00, GST00]. **Wide-Angle** [FSY00]. **wideband** [CCG+06]. **Wiener** [HLRZ06, LNGK04, LKNG04, MT04]. **Wiener-type** [LNGK04]. **WIGGLE** [LPK05]. **Wigner** [KLW09, RRC05]. **Wind** [STiST02, SSW+07]. **windowed** [SZLW06]. **windowing** [SAK05]. **Winds** [LR01b]. **Wire** [BISS01, DDF01, LWW04]. **Wire-Plate** [BISS01, LWW04]. **Wise** [YL01, CBH03, RLZ03]. **within** [AKV00, AJ09, Bae03, FCD+06, KG08, SS07a]. **without** [ABRR09a, ABRR09b, BIVC07, Edw06, Giv01, JP03, Kas07, KDC05, Li08a, Mon00, SJ02, TB00b, YGL05, ZSW07]. **WKB** [BP06, GM06]. **Woollings** [TR07]. **Work** [Mac00, LC06b]. **Worst** [PWW00].

X [RR07]. **X-ray** [RR07]. **XTOR** [LL08b].

Yee [LW01, MT01, TE08].

Z [JD09]. **Zakharov** [BSW03, JMZ04]. **Zernike** [KP04]. **Zero** [SBGK00, KKM08]. **zero-Mach** [KKM08]. **Zonal** [BDS07]. **zones** [BAMD07, Bod06]. **zoom** [KP07].

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