A Complete Bibliography of Publications in

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA
Tel: +1 801 581 5254
FAX: +1 801 581 4148
E-mail: beebe@math.utah.edu, beebe@acm.org, beebe@computer.org (Internet)
WWW URL: http://www.math.utah.edu/~beebe/

23 January 2019
Version 1.65

Title word cross-reference

(2 + 1) [PS17]. (d²/dx² – h²) [Kas15]. (r, vr, vθ) [VSC18]. (SN) [OWKE16]. 0
[TCS16a]. 1 [ALTR17, BK17c, CGMH18, CSK+16, EL18, JKE+17, NMM19,
Nor15, VLP+16, XQ17, YC17, ZGJ16]. 13 [SGP17b]. 2
[BK17c, BT16, BC16c, CK17, CZ17, CSK+16, FL18, FNGV18,
FNGDMMR18, GFL17, GHL+16, Hu17, IG15, KQB18, LMPS15, LM15a,
LGB17, LYT+15, LY16a, LG17, Mue18, NMM18, NMM19, PG17, PKJ+18,
PMG16, PAFT19, QDH15, RLP16, SCS16, TCS16a, WY17, XDSX17,
YFJ18, ZND16, ZJ18, ZZW+16]. 3 [AG16, AHHC18, ACS16, BH16, BG17,
BDK+17, BSI5a, BSM16, BC16c, CSS17, CBC+18, CDL17, CGL18, CCZC16,
CZ16, CX16, CSK+16, DBD+17, DS15a, DWGW16, DF16, Dog17, DD16b,
FDS+15, FGL16, FC19, FYC+18, GBM16, GWC18, HWH+16, HLC19,
JBO15, KE15, KES18, KC17c, KFWK17, LFRH17, LML+16, LHMB16,
LZ17a, LLJ18, LMC19, MKYZ17, MG15b, MC15, MF16a, MW17b, Noe15,
PGCG18, PK17, PR16a, PAFT19, PTT18, RBY19, SNSG18, SFT16, ST18b,
SA15, ST18c, Sto16, SSL+16b, TCD17, TRL15, TCL15, VLP+16, WXW15,


0012 [FW17].

1 [MRRRF18]. 148 [CNG17]. 199 [MN17].


307 [KYW+18]. 344 [NG18, SWMD17a]. 348 [HGN17a]. 361 [DK18a].

4U [HAPK15].

A-SLEIPNNIR [PC19]. ABCD [PD15]. ability [KKZ15]. able [BDJP19]. above [GP16b, YS18b]. Absorbing
absorption [DZR18, DCA+16, DJV+18, WWR17]. accelerate
[BT17a, PKW17]. Accelerated [CMR+16, AC17, CWM+16, CG18a, CRZ17, GKE15, HPY18, JTD16, KH18, PTMF18, RGW16, SMAG17, VWV17, WWGW18, WL16, YZW+18, ZMCC18]. Accelerating
[Gen15, MN18a, SLR+16, XZZ15]. Acceleration
[BT17a, PKW17]. Accelerator
[CMR+16, AC17, CWM+16, CG18a, CRZ17, GKE15, HPY18, JTD16, KH18, PTMF18, RGW16, SMAG17, VWV17, WWGW18, WL16, YZW+18, ZMCC18].
Adaptive-Mesh-Refinement [SL18]. adaptively [HC18a, TR17].

adaptivity [APP+16, AKM+19, BHZ16, BG19a, GBD+15, JKE+17, OKWE17, WKO17].

added [BHKS16]. added-mass [BHKS16]. adding [DL18a].

additional [Abg18a]. additive [ADE+17, CHZ16]. address [AM17b]. addressed [CSCM16]. ADER [BK16a, BLD15, BDLM18, BTVC16, CTM+16, DPRZ16, DPRZ17, Jacob, JC17, NMM15, NMM16, NMM18, Nor15]. ADER-MOOD [BDLM18].

ADI [BC16c, FBF15]. diabatic [BLVC16]. adjacent [GMP16, ZYK18].

Adjoint [AMJ17, Bly17, RPC+18, SW15, Cac15a, Cac15b, CYYL18, DK18a, DK18b, HL15a, JW15a, KPK15, LYFP17, Loz17, MMS15, SSC+16, Stil15, VBF15, XRMM15, ZF16]. Adjacent-based [AMJ17, RPC+18, SW15, CYYL18, JW15a, Loz17, MMS15, SSC+16].

adjoints [Fid17]. adjusted [CW19]. adjustment [APT17, OSP17]. ADM [CvKH16, HCHV18, Ani16]. ADM-admissibility [BT16].

adsorption [ZQCT15]. Advanced [TK16, TM17, WB17, KH15, KP18, SSL+16b, Zoh17]. advances [PC16].

advancing [AW16, CcdL15, ZJ18]. advected [HM17]. advecting [PR16b].

advection [AAL15, APP+16, BFT17, BTVC16, CKK18b, CSH15, DJL+19, EHX15, GS15a, IM17b, JZ16, LN17, LLP+16, LE16, LB17, LZ17b, LLLN18, MD18, MS18b, MK15, MN16a, MMR18, MSP16, MN16c, NL18a, PCF15, PPCK17, QDRB15, SF18b, SP15b, TSH17, TAR17, Vab18, YWHP15, ZJL16].

advection-diffusion [BFT17, CKK18b, GS15a, LE16, LZ17b, LLLN18, MS18b, MK15, MN16a, MMR18, MSP16, NL18a, TSH17].

advection-diffusion-reaction [BTVC16, DJL+19, JZ16].

advection-dispersion [PCF15, PPCK17]. advective [AVVH17, Bhd18].

advective-diffusive [AVVH17]. aeroacoustic [ZZH16]. aeroacoustics [BCD+15, JC17, PCBG18, SWS17]. aerodynamic [GGW17, Loz17, TZ16].

aerodynamics [SPP+16a, TVB+16]. aerelastic [LHY17, MM17, SPP+16a]. aerofoil [KH15]. aerosol
analytic [LGB17]. Analytical [AHHC18, QWXZ17, SWML17, AB17, ALTR17, CZ16, DF16, DH18a, EAAM15, FKF17, GT19, LC18, LC17a, MD15, MTD15, TM15b].

analytical-stochastic [DH18a]. analytically [RRM16]. analyze [UG16].


Angular [DL15, ABP16, BCG15, GBD15, JST17, KL15, MFG15, OWKE16, ZM16a]. animals [PBP18]. Anisotropic [BG19a, BD16, BDV17, CS18a, DPK17, ALO18, BJWZ17, BOA17, BAD19, CPV16, CGL18, CLS18, CSG17, Chui17, EH18, FGB15, GMP16, GFG15, GH17a, HHA16, MDT16, PS15b, PC19, RMA17, RN18a, RRMF19, SAEF17, SS17c, SDW18, TW17, TMT17, TTN16, VLAB18, WHY18, ZSW17, vEKdB16]. anisotropy [CGG18, YC16].


Applications [Chu17, KKL15, KHP15, MM16c, NFG15, PSB18, PQR17, TCC16, TCS16, ACCDA16, ALKZ16, AAD16, AdSS15, BHGK18, BDM18, BW18b, CCK17, CBV16, DD17, DCC15, DDV15, DY17, DZC16, FK17, GBR15, GFO18, HWH16, pHZScC15, JL15, Jou15, KADE15, KADE17, LB17, LSD18, MW16, MW16b, MS17, MS18d, NLFM16, PC19, Ram17, RG15, Say17a, Say17b, SA15, SK19b, Spe15, SCLG15, TP17, TMH18, YNW17, YL16, ZzSK15, ZPE16].

applied [AGRB18, BC16a, DCP15, DZ16, DGL15, GBD15, GFvR18, HR18b, JdR18, LML16].
NRZS17, PBA$^{+15}$, PA15, SWPS17, WS16, ZCHS15, dFVJ15]. **Approach** 
[TK12, TK15b, ADFG17, AMJ17, AS17, AR16b, AMM$^{+15}$, AM17b, BVM$^{+17a}$, BB17, BHS$^{+18}$, BSM16, BDPM18, CGS18, CMP19, CKK18b, CE18, CNOS15, CJL16, CFPB17, CN16, CGJ16, DG18, DvB17, Dom18, EO15, EZG16, Eva18, EE16, FQZNN18, FG16, FKR16, FFJT16, FG18, FYC$^{+18}$, GTL18, GR18, GLS15, GWE$^{+15}$, GPG17, HFND18, HB16, ISST18, JH17, KD17a, KKS15, KM16b, KP15b, KES18, KL15, KW16, KV16, LZ18, LSWF16, LZ15a, LSP$^{+18}$, LO16, LMSK17, LH18, MVKD15, MRP$^{+15}$, MCN18, MN16a, MRN16, MPR$^{+18}$, MD15, MWB$^{+15a}$, MWB$^{+15b}$, MTBT18, NJPB17, OS16, OB17, PMS15, PHO$^{+16}$, PHRA16, PE15, PJB$^{+19}$, RFGSV15, RT16, RO16, RS16a, Ric15, RJ19, RSD17, SP18, STEK17, SKS17, SZ15a, SXY18, SLB$^{+16}$, SDF17, SW18b, SWHV16, SMOM17, SP15b, SV17, SIX16]. **approach** 
[TBHG18, TFGK18, Tav15, TT17b, TAJ17, TND18, TABR17, Vos17, WLL16, WT16, XYPT16, XWW$^{+16}$, XWZ$^{+18}$, YS18a, YL16, ZL15b, ZC18, ZZPH18b, ZZPH18a, ZCL17, dJRP$^{+15}$, tEDKT17]. **approaches** 
[LL17, CFG16, CPSF17, LYB18, MMPS17, SGA$^{+15}$, YGEM17]. **appropriate** 
[FG19]. **Approximate** 
[EAAM15, KEJ18, KKL17, MKY17, PP18b, Ama15, AB17, BSGW15, CLY$^{+15}$, DYL19, LZR$^{+15}$, MM16a, SPW18, WHL17, WSN$^{+15}$, WLK$^{+16}$, XM18]. **approximated** 
[LGDH16]. **Approximating** 
[CFO18]. **Approximation** 
[ABM16, BC16b, CT15, KK17a, LB15, OS16, ALK16, AEL$^{+15a}$, AEL$^{+15b}$, VMN$^{+18}$, BDKK17, BA15, BZ15, BKK16, CL18, CCZ18, CQ15, CSLL15, CPL16a, Cot16, DH18b, DBC15, DZC16, EMZ16, GNZ18, pHSe15, HJKL18, HB16, Ike18, Jou15, KZR15, LTKA15, LLY15, LZ17a, ILLN16, LLVF$^{+15}$, LVA16, LY17, MML17, MP15b, MB15, MN18c, PCX17, ST18a, SS18a, SWX18, SLdTV18, SAOW17, VSD18, WX18, YY16, YY16, ZCL17, ZNX15, ZV18, Zl15]. **approximation-based** 
[LLY15]. **approximations** 
[AEL$^{+17}$, BGN15, BFBB17, CLC16, CMW16, DY17, FFB18, FPV18, GMS16, Hig15, JW15a, Kay15, KS15a, KS16b, LLS15, LN15, LHA15a, MN04, MN17, MSP16, PUA$^{+15}$, VLAB18, WYZZ18, WG15, WF17, YW17, YY17, ZG16, ZzSK15]. **APR** 
[CodLL18]. **Arakawa** 
[SLN15]. **Arakawa-like** 
[SLN15]. **Arbitrarily** 
[LLW16, GLS15, GBS15, LBT16, LIW18, OL16, PN18, SUR18, TCS16a, TS16, WX18, ZLG18]. **Arbitrary** 
[BMR$^{+16}$, BL16, BD17, CNG99, TD18, WW15, ADGN17, AT16, BtTB18, BS15b, CNG17, CJL16, CYL$^{+16}$, CE17, CR18, CCGH17, DL15, DY16, DF16, GC18, GTG15, GL17, HR18a, HL16a, JH17, KTN15, LL16b, LTR16, LK16a, LHW$^{+17}$, LYP17, LV18, LMN18, MN15, MW16b, MTK17, MWB$^{+15b}$, NSB15, OLD$^{+16}$, OKE17, PWC18b, Rag15, SWMD17a, SWMD17b, Spe15, ST16, TST17, TCS17, TKF17, WHL17, XX16, XX17, ZSW17, dTP16, AB16]. **Arbitrary-Lagrangian** 
[BL15, BD17]. **arbitrary-order** 
[CCGH17, JH17]. **arc** 
[Par15]. **arc-like** 
[Par15]. **Architect** 
[MAM16]. **architecture** 
[TCS$^{+16b}$]. **architectures** 
[AAB$^{+16}$, RGPS17, RhvR$^{+15}$, ZAK15]. **area** 
[JB15]. **Aris** 
[GR15]. **arising** 
[BKRB15, GSM18, HLTC18, ILNS17, PHG15, SG19]. **arrangements**
[BDAA\textsuperscript{+18}]. array [GD19]. arrays [LB16, SFDE15]. Arrow [DFM17]. Arrow-Hurwicz [DFM17]. arterial [DHC16]. arteries [GBD17, YPK16]. artery [BFI\textsuperscript{+16}]. artifacts [MSG18a, MSG18b]. Artificial [Rod17, Rod18, WBM\textsuperscript{+15b}, CM18a, CJD\textsuperscript{+17}, DRM15, EMM\textsuperscript{+18}, FRRV16, HK19, HIN\textsuperscript{+16}, HP17, MTT19, Mue18, RH18, Str17, TLB\textsuperscript{+18}, Wil18, YM17c, FBC\textsuperscript{+16}]. artificial-dissipation [EMM\textsuperscript{+18}]. ASAM [Cac15a, Cac15b]. aspect [Sti16]. aspects [PM16, TC15a, TKC15]. asphaltenes [ELH\textsuperscript{+16}]. assemblies [LL18]. Assessment [BD18, XWL\textsuperscript{+16}, HBC\textsuperscript{+16}, JD19]. assimilation [ADP\textsuperscript{+17}, FDS\textsuperscript{+15}, FG18, GS15c, GM16, KYUO15, MP17, MCGS16, NP16, RSI6a, RVMR17, SD17, SWHV16, SSN15, YNW17, AMPG19]. associated [A\textsuperscript{´}APB17, Bre18, Don18, OvdHVH16]. astrophysical [KB18]. astrophysics [KFF\textsuperscript{+17}, Teu16]. Asymptotic [BLMV17, CKK18a, CWYJ16, DD17b, DMTB15, JXZ15, MC15, SSM15, BLS16, BT16, CX15, CDN17, CDV17, DLM18, Hiv18, HW15b, JLQX15, JL17c, JS17, Liu19, LP17a, SXJ15, SJXL15, TW17, WY16, XJLQ15, ZLJ16, DDD17]. Asymptotic-Preserving [DD17b, JXZ15, BT16, CDN17, HW15b, JL17c, JS17, Liu19, WY16, DDD17]. Asymptotically [LLS15]. Asynchronous [LPBR15, SGL17, AM17a]. asynchrony [AD17]. asynchrony-tolerant [AD17]. atmosphere [WSH19]. atmospheric [AZ16, CGSS18, FL16, KMS\textsuperscript{+18}, KG15, KS17, Mel18, MM16c, SY16, SWMD17a, SWMD17b, SDH\textsuperscript{+16}, SX16, SKG17, SKW19, SZS15, TLLF15, ZCHS15, ZA15a, GPPO\textsuperscript{+18}]. Atom [LLEK17]. Atom-partitioned [LLEK17]. atomic [TY17]. atomically [FGLB16]. atomically/kinetically [FGLB16]. atomistic [CDX\textsuperscript{+18a}, FO15, FHS17, FS15, VKE\textsuperscript{+18}]. atomistically [FRL15]. atomization [GHR17, LSYF15, SLX\textsuperscript{+18}]. attractive [Rua18]. attractive-repulsive [Rua18]. Auction [JME18]. augmented [AGR18, AT18, LXC\textsuperscript{+15}, NMM16, NMM18, RTG18, XLY15, NMM15, VOG17]. Augmenting [SNK18]. AUSMD [Niu16]. auto [ZKS\textsuperscript{+15}]. auto-co-variance [ZKS\textsuperscript{+15}]. auto-focusing [SG18]. automated [LBB\textsuperscript{+17}, TST\textsuperscript{+15}]. Automatic [KJ18, TO15, ZJ18]. automaton [DMS17]. autoregressive [HH15]. auxiliary [SXY18]. avalanche [VB\textsuperscript{+15}]. avalanches [FNG18]. Average [ZSL\textsuperscript{+19}]. averaged [BTVB15, CLW18, LZB\textsuperscript{+17}, LHMB18, XWW\textsuperscript{+16}]. averages [RL17]. averaging [BB15, DWGW17, MSG18b, SPCH16, ZSL\textsuperscript{+19}]. averaging-reconstruction [ZSL\textsuperscript{+19}]. avoid [MSG18a]. avoiding [NWKC16, Wal16]. avoids [SYM15]. Aware [TS18, BKS18, DS15a, DS15b, LRZ17, NBH18]. axi [RZ17]. axi-symmetric [RZ17]. axis [ZCL17]. Axisymmetric [ZH17a]. B [CZBC\textsuperscript{+18}, FGLB16, SLVE18, YZT\textsuperscript{+18}]. B-spline
B-splines [CZBC+18]. Babich [LQB16]. back [BFP18, Ols15]. back-scattered [BFP18]. backflow [BC16a]. background [BJK17, ION+17]. backward [PPBK15, PPK18]. Baer [CHS17, DG16a, FRRV16, LDGH16, TT16]. Baer-Nunziato [DG16a]. Balance [PMF+18, CTM+16, LPWK15, MRXI17, MN16c, NLFM16, RPC+18, TM15b, VK18, WYA+17b, XZZ15]. balance-Monte [XZZ15]. balanced [AASPT18, ABT16, CCK+18, FNGDMNR18, FGLB16, GLK19, LX18, LMKS15, LAEK18, MDBCF17, NMM15, NMM16, NMM17, NMM18, PN17, PME+15, XCY17]. balancing [CV17, GFA+16, JBLO15, KJ18]. ball [CWJ18]. ballistic [TP16b]. ballooning [WSH+17]. band [AAB+16, KH18, MJHJ15, WHZ18]. band-Krylov [AAB+16]. banded [JH17]. Bandwidth [WCT18, HXB15]. Bandwidth-based [WCT18]. Baroclinic [OLHD17]. Barotropic [CK16a, XWB15, YR15]. barrier [AW16]. BASE [HD18]. BASE-PC [HD18]. Based [ABM16, DJV+18, AGC19, AAE17, APY+18, AMJ17, AS15, AS16, AB16b, AA15, ABT17, ABdC+18, BJIO18, BSK15, BTD16, BFI+16, BD15a, BK16a, BVG+16, BLM18, BCO+15, BBF+17, BIR18, BC18c, BM16, BZ15, BDBEE15, BTVD15, BCM15a, BS15b, BGG16, BC17, BPD19, BC16d, BK17, CDM+16, CCHL15, CG15, CDC17, CGJ18, CCL6b, CJD+17, CQ15, CJL16, CYL18, CLL17, CLX15, CGJ16, CGJ19, CLQ17, CELZ18, CMH15, CV16b, CYW17, DRP+16, DCA+16, DRM15, DC18b, DX+W18, DPW+15, DF16, DLK17, DL18b, EH14, EH15, ES18, EIN19, EMZ16, EE16, FRL15, FHY+19, FWK17, FG16, Fid17, FB15, FPDT17, FK17, FSK+16, FC16, GTL18, GSS15a, GZM+17, GMLD18, GHH15, GOR17, GO15, GCVMK15, GFA+16, GBD+15, GN16, GZLH19, GA15, GJ18, GSN17, GFW16, GY19, HGR16, HEP15]. based [HSL+15, HTZG17, HP17, HDA+18, HMFC18, HW15c, HW16c, HLL+18, HKS+16, i15, IST18, JW15a, JL18a, JKE+17, JZS18, JL17b, JT18, JLF17, JTD16, KM17, KFF+17, KJKB16, KKP18, KRFV16, KC17c, KG15, KP14c, KK17b, KG17+17, KSSL18, KBBF17, LHI17a, LY15a, LKKA17, LC18, LL15, LJZ15, LLL15, LDL+16, LXL17, LC17a, LLY18, LGB16, LSTK15, LJ16, LW17d, LHY17, LKSM17, LYA16, LLLL18, Loo17, LZW+17, LP17a, MN18a, MMB18, MGF15b, MGS18, MW16b, MP17, MBGB16, MMMS15, MV216, MCHL16, Moh15, MZ15, NBT19, NPP15, NPRC15, NLL17, Niu16, OC18, OS16, OSL15, OPHA15, OV17, PXZ15, PCX17, PDDG+17, PD17, PPLC16, PUA+15, PBP18, PR16a, PRRA16, PLWJ16, PSMPG17, PR16c, PML15, RO16, RY18, RRM+16, RMLvR18, RPL19, RXS15, RX16, RIC15, RN18a, RM16, RPC+18, RRMP+19, SNSG16, STR15, SRB17, SNB+15]. based [SBT17, SPB17, SLH18, SL18, SGC+17, SSC+16, SP16a, SF18b, SW15, SLL15, SKO17, SL16a, SBH19, SNA16, SWZ17, TC15a, TK15, TBG18, TW17, TQL16, TD17, VLAB18, VCEK19, VBG+17b, VOS17, WGI16a, WW15, WR15, WDS15, WHL17, WSN+15, WCT18, WCCB16, WH16b, WHZ18, XB18, XYT16, XD+W17, XDS17, XS15, XTYL18, XWZ+18, XM18,
blasting [XYF+17]. blended [SS16c]. blends [Yan16b]. Bloch [BTWY15, GYZ19, KH18, WH16b, ZBZT17]. Bloch-Torrey [BTWY15]. Block [LWLC17, AAD16, AA15, BST15, CTG16, DFGQ16, FGLW18, FLHA17, KNS15, LL16b, MSD+17, PLWJ16]. block-adaptive [BST15, CTG16]. Block-diagonalization [LWLC17]. block-structured [FGLW18, FLHA17]. blocking [GY15]. blow [GY15]. blow-up [GY15]. Board [Ano18a, Ano18d, Ano18f, Ano18h, Ano18j, Ano18l, Ano18m, Ano18p, Ano18q, Ano18s, Ano18t, Ano18u, Ano18v, Ano18w, Ano19a, Ano19b, Ano19c, Ano19d]. bodies [BHST17a, BHST17b, BHST18, CFSN18, CGRV17, JBM19, LTB16a, LC17a, MM16d, NJPB17, PN18, PR16a, QYF15, RW15a, RXS16, SGMS16, TOR+15, ZLGS18, dTP16]. body [ABT17, BOA17, CZBC+18, LC15, LSP+18, NBT19, PLWJ16, Say17a, Say17b, SD15, STKH15, TRM16, WG16a, WE15, YXF+16, YDCK16, ZJ18]. body-fitted [BOA17, ZJ18]. body-force [WG16a]. body-forces [YDCK16]. body-of-revolution [NBT19]. Bohm [MP15b]. boiling [JS16, SN15, VAL16]. Boltzmann [GBCF16, GSS15b, ARF18, AS16, APT17, AJVH17, BP18, BWR15, BTBV15, BAR15, CT15, CG18a, CVG18, CLM15, CSB15, CYWL17, DLNR18, DCBK15, EG18b, Eva18, FGL16, FB17, FBL17, FK17, GR18, GPS17a, GPS17b, GR15, GBCF15, GW16, HK15a, HLML17, HW15b, HLU15, HJ16, HY15, HHY15, HW15c, HHY16, HW16c, HW16b, HW18, Hwa16, JAH19, JSY15, KGT15, KP15a, KL15, KS15b, KS16d, LMP15, LFPD16, LL16b, Li17, LDW15, LWB+16, LXSC16, Liu19, LM15d, MG17, MK15, MHGM+15, MKV+17, NSL16, Ols15, PL16b, PMGW16, PGGW18, PF16, RS15a, RTO15, ST18a, STW16, Shi17, STG17, SWL19, TS17, VM19, WSY15, WHS15, WSY16, WGM16, WZ15, WL+17, Xie15, XJ16, XTYL18, YFKS15, YYY+16, YC16, ZLJ16, ZYW16, ZQCT15, ZZW17]. Boltzmann-BGK [Eva18, HHY15]. Boltzmann/Finite [GSS15b]. Bond [TRM16]. bookkeeping [HB15b]. boosted [YXD+16]. Boris [EBQ15, WSR15]. Born [OLV16]. Bose [ALT17, Rua18]. both [CFF18]. bottleneck [OZ17]. bounce [Ols15]. bounce-back [Ols15]. bouncing [SGP17b]. Bound [EHXM15, HS18b, QSY16, CXY19]. Bound-preserving [EHXM15, HS18b, QSY16, CXY19]. boundaries [AB17, BLS16, EGI18b, FB17, GSN16, GT19, HF18, JSY15, LH16, LSLA16, MA15, MM15, RF18, ST18a, YM17b, YTW15]. Boundary [BCD+15, BCO+15, BDG+17, BAR15, CV18, DKK15, GPAO+18, GZ17, GD19, GBS15, HY15, KSM19, KZR15, MAvdW18, Pan15, PF16, RVZ15, RMF+18, SGT17, TSN16, TBL15, WSY16, AR16a, ABN15, AB16a, AM17, AB18, AMP16, AHHC18, ACS16, ABG18c, AR16b, AKM+19, AEV19, BC18a, BBKS16, BKP16, BXY17, BRK+18, BN15, BFB+17, BBD18, BC18b, BNK18, BNN18, BNS17, BPTA16, BSP18, BG19b, BG16a, BH15,
Bre17, CDL17, CGL18, Cha16, CG18a, CYWL17, DDJ18, DGHP17, De18, DSH+16, DC18b, Dod17, Don15a, DS15c, Don17, DSSP18, Du18, DL18c, FR18, Fal15, FH17, FG16, FPDT17, FG19, FN17, GP17, GGT15, GLMC16, GC17, GVTQ16, HL15a, HTFL18, HGW18, HP17, HR17, HKH+16, HLY15, HLSY16, HHY15, HXY16, HDF18, Huc15, IK15, JSP16, JL17a, JW15b, JSY15, KDF15, KLSF15, KA15E15. **boundary** [KLC18, KHHN16, LTB16a, LC15, LLEK17, LM18, LXC+15, LFDP16, LBZ16a, LCK16, LC17b, LD15, LTZ18, LHW+17, LYPP17, Loz17, LFT+16, LHA16a, LW1919, MS18a, MS18b, MK15, MAP17, MA17, MKS18, MTT19, MP15b, MMP18, Mue18, MN18c, Nis15, NL18a, NW15, Ols15, OPB15, PHL15a, PHHR17, PNL18, PPLC16, PKJ+18, PCN15b, PN18, PLL15b, Pes15, PTT18, PE16b, PMF15, PDB17, PG18, PHG15, PVB17, QSB18, QM18, RS16b, RS18, RDG17, RZ17, S17a, SWS17, SL17, SKF15, SKF16, SHL16, STKL19, SF18a, SK15a, SMA+16, STG17, SLVE18, SM18, SMLB15, SMSR18, ST18c, SMOM+17, SLTV18, SGT16, SHP+16, SCLG15, Sr115, STH+15, TCD17, TIZG18, TP17, TTN+16, Tsa15, Tsa16, TKF17, Vai15, VAD17, WN18, WG16a, WZ15, WE15, WCH+17, WL18, WS15a, WBM+15b, WG17, X17, XY18]. **boundary** [YK15, YS15, YD18, YM17c, YZZ15, ZL15a, ZB15, Zha16, ZG18b, ZY17, ZSX17, ZTH+17b, ZH16, ZRT18, dDPG19, dTP16, SCS16, SIX16]. **boundary-constraint** [XY17]. **boundary-integral** [QM18]. **Boundary-Lattice** [PF16, LFDP16, WS16, XY118]. **boundary-layer** [NL18a]. **boundary-value** [WZ15]. **bounded** [AG18, BLS16, Don17, IM17b, JHPAT17, KBR17, LI15, MS18c, NGY+17, YL15]. **Boundedness** [HDA+18, SMD18a, SK17]. **Boundedness-preserving** [HDA+18]. **bounds** [BMC+18b, HFND18, MSK18, MM15, Tso18, WK18]. **Boussinesq** [UL16, ZA15a]. **boxes** [SS17b]. **Bracket** [Suz18]. **Braginskii** [MP16]. **brain** [TT17a]. **branches** [XL17b]. **break** [GWYS18]. **breaking** [AW16, FKR16]. **breathing** [MCHL16]. **Breit** [JdR+18]. **brick** [WR16]. **brick-tetrahedron** [WR16]. **bridging** [DPW15, SJU15]. **brief** [Shu16]. **Brinkman** [GX15, HMLW15, LBP17, STG17, SHW17]. **brittle** [ZHL18]. **broad** [JB15]. **broad-area** [JB15]. **broadband** [ZH16]. **broadening** [DJD+17, JDFS16]. **Brownian** [BT17a, BRK+18, DH18a, MMW15, SPRW15]. **bubble** [FP18, JSVD17, ZL15a]. **bubbles** [HTBG15, KZR15, SKF16, WB17]. **bubbly** [ML18]. **building** [ARG+17, CC17a]. **built** [BC18a, TGBWG16, dLKK19]. **built-in** [TGB16, dLKK19]. **bulk** [CM18a, COV18, PK17, ZV16]. **bulk-surface** [COV18]. **buoyancy** [KA18, LT15]. **Burgers** [EAAM15, MK17, dHIC16]. **burning** [SNB+15]. **BVD** [SIX16]. **bypass** [BFI+16]. **bypassing** [CPT16].

C [SRB17]. **CAF** [GBR15]. **Cahn** [HTMP17, CS16c, CLS+18, DD16a, DJLQ18, GX15, HW15a, JJ18a, KS16a, KMD16, KJYC17, LJZ15, LCK16, MGCW18, Tav16, WX17, YLLH19, ZSX17, ZYCK15]. **calculate** [LSP+18, WT16]. **calculating** [DB16a, SWZ17]. **calculation**
AAL15, CLY+15, CHE+17, For16, GZ18, HS17a, HM16b, KH18, Mac15, MH19, MDP18, QS16, SY17, SFP16, Yan17. **Calculations**

ADFG17, CSN18, EH14, EH15, GLZ16, HED+16, HLTC18, KK16, LHS+18, LKN17, LLVF+15, LY16, MJ16, Mas18, MDP+15, PDdG+17, PUA+15, PD16b, RO16, WKSS15, XS15, ZJLC15, ZLH+17. **Calculus**

CC17c, MHS16, NBT19, SMC15, SP18, VBL+16. **Calderon**

[CPRA18, AA19, DDV+15]. **Calibrate** [LSWF16]. **Calibration** [FOF15, KL17a, NHM17]. **Can** [WDG+17]. **Canonical**

[CQL+17, LBZ16, CSN18, SP16b]. **Capability** [MMPS17]. **Capillary**

[ACM16, AR16a, BTA17, CSS15, Cha16, CL17, CSN18, CG15, CW18, CHE+17, Cos16, DPW+15, DG16c, EAR15, EN17, FDKI17, GB15b, GMS16, Gen11, GDS+16, GAI15, GB15, Hig17, HC17, HRGC16, ION+17, KM17, KMS+18, KL16, KC17b, KE18, KK17b, KLGO18, LS15a, LPTCG16, LPU18, LYCC17, LYB18, LB17, LX17, LW18, MNO+17, MZTS16, MSS16, NHA18, PJE+16, PUA+15, PDS15, RFPSSA18, RRL19, RKK15, SY17, Swe18, TSR15, WBC+16, WL16, XZZ15, XR17, YC15, Yas17, ZLJ16, Zil15, vdKK16]. **Carrier** [vdKK16].

[CC17a, MHS16, NBT19, SMC15, SP18, VBL+16]. **Carry** [SU15]. **Cartesian**

[ADOP18, FGLW18, ACS16, BNM18, CA16, CXL16, DDJ18, DM16, GP17, GNK18a, GNM18b, HS17b, HS18a, HLL+18, LPW15, LGB17, MM16d, MM18, QDRB15, QLF16, RBA18, STK+16, SLY16, ST16, XTYL18, dBM16]. **Cascade** [SFT16]. **Cascades** [FBL17]. **Cascadic** [PHHR17]. **Case**

[BMCK15, CHJT17, CGP16, DM16, DJV+18, DL15, DL16, FGLW18, FLW16, FS17b, GBA16, GAF+16, GNK18a, GZ18, H17b, GPG17, HWH+16, HXL15, ISST18, JST17, KH18, KHTZA16, KBF17, Lap17, LPW15, LYZ15, LY15b, LSD+17, LSTK15, MM116, MHZ+15, MM16d, MM18, NRZS17, PXR17, PE16a, PHÖ+16, PMF15, RH18, SGMS16, SSM15, SCLG15, SPCH16, dCPDC+17, TM15a, VSM16a, VSM16b, WHY18, WCCB16, YXD+16,
ZXDL17, AG18, DDD17, MNO⁺¹⁷, MSD⁺¹⁷. cell-based [KBF17].

[EBQ15, QHZ+15, XS15, ZJS15, CC17b, EH15]. Comments
[Gho17, HSK+15]. common [LLJJ18]. common-refinement [LLJJ18].

[Cui15, GT15, TMH16, WRL16a, WRL16b, WRPL17, YLA15, AW18, BZ19, Brc17, CZL18, Fan16, GS15a, HF18, JPSX18, Ler16, LZZS15, OVP15, PX16, RSH+17, SS16b, WLW+18, WL17, YWHP15]. compaction [MDP18]. Comparative
[ED16, KS16a, KG17, CX15, MVZ16, RS15a, TK15a, WMM+18, ZED15].

Comparing [GRB15]. Comparison
[EMM+18, GWB+15, PUA+15, Pas16, SS15b, YM17c, BD18, Ein19, FKF17, JZSX18, KS16b, LGB16, NdILPC19, RMC15, VWV17, WG15].

Comparisons [MAM16]. Compatible
[BMC+18b, MO18b, SY18a, BC18b, EL18, GBM16, KSVB18, KSSL18, SGC18b, SLVE18, SO15, TMH18, YSC+17]. Compatible-strain [SY18a]. complete [MG15a, SD16]. complex
[AMS17, ALM+17, AC17, AEVW19, BB17, CGSS18, CZL+15, CD17, CRZ17, De18, DOO17, DD16b, FLT18, GLS15, GS18, GEZK16, HAPK15, KJ17b, LCK16, LBTK18, MRK15, MR16b, Noe15, RS16b, SMLB15, TK15a, TP16b, VBG+17a, VD16, WXW15, WWR17, XDvW17, YDCK16, ZYW16].

complexes [KSVB18]. complexity [LYCC17, OZ17].

complexity-bottleneck [OZ17]. complexity [GN16]. complicated [ABFR16]. component
[Did17, FB15, GZ17, HHM17, KS16c, LFDP16, LCK16, STW16, Tav16, Vos17]. componentwise [CLP16a]. Composite
[SGP17a, BCM15b, JHPAT17, JW15c, LJJZ15, LSS16, ZYW18, RZ15].

compositional [BMT17, CFvKH18, GV18, MTJ16, MTJ17, MTJ18, MF16a, WKS15, XML17]. compound [MT17, PZNG15]. Comprehensive [RLV16].

compressibility [GZM+17, HP17]. compressible [AIP17, AD15, AMS17, AZ16, ALA16, BTD16, BKHS16, BM+16, BJ15, BAD19, BHF15, BC16c, Cai16, CM18a, CBS18, CFSN18, CYL+16, CYLY18, CZL18, CSN17, CXV19, CC16c, CPS17, DDJ18, DDJ19, DG18, DWR18, DLM18, DTX+18, DXV18, FMNZ17, FST15, FHA16, GOR17, GHR17, GWK16, Ger17, GNM18b, HL15a, HZf+15, HTZG17, HTBG15, IQQ15, JSP16, JYY+18, JL18c, JLC18, KD17a, KKH18, KS17, KTK18, Lap16, Ler16, Ler16, LW17b, LPR18, LSD+17, LSR16, LHI1b, LSZ18, LNM15, LZW+17, MA19, MDAB18, MM16d, MM18, NDCB17, NF17, NSKN18, OPHA15, PX16, PHHA18, PL18, PSS17, PSB+18, PM16, PWC18a, PCN15a, PCN15b, PHO+16, PS16, PT18, PBC+17, QLF16, QSB18, RL16, RMF+18, RJ19, SWC18, SWS17, SPD+17, SP15a, SGMS16, SHA16, SWPS17, SY18b, SKC17, SST+15, SVi15, TD17].

compressible [TWH15, TGY18, TT16, TABR17, VM15, VG18, VSM16a, VSM16b, VBF15, WW15, WLM15, WCH+17, WS15a, WDGW17, WL17, XYF+17, YSW15, YWS16, YWS+16, Zha17e, ZHA17a, ZMCC18, dBIM16, dFV15, dLDG+18, dPSS16, vOMB17]. compressible-fluid [HFA16].
Compression [LY15c]. Compressive [HD15, LSD18]. Comput [ASS17, CNG17, Dav15, DK18a, Gho17, HGN17a, KYW+18, MN17, NG18, PS15a, SWMD17a, SYV17, TK15b, ZJS15]. Computation [BDMC15, GGL+17, HKLZ18, MHL17, MT15, NL15, Pru18, ALT17, BJRF18, BLL16, CGTH18, CC17b, CPS17, CG16, DG16a, Dod17, EMZ16, FFW17, FCL17, FBC15, FYC+18, GHH15, GFvR18, GLMC16, GT19, ION+17, KH15, KSVB18, LVTR15, LO16, LDGH16, LDHJ15, MBSS15, MT18, NCP+17, PSB+18, PK17, SCQP16, SWMD17a, SYV17, TK15b, ZJS15].

Computationally [HMBH15, Tav15, PMS15, SBB15]. Computationally-efficient [HMBH15, PMS15, SBB15].

Computationally-efficient [HMBH15, Tav15, PMS15, SBB15].

Computations [BDMC15, MHL17, NL15, Pru18, ALT17, BJRF18, BLL16, CGTH18, CC17b, CPS17, CG16, DG16a, Dod17, EMZ16, FFW17, FCL17, FBC15, FYC+18, GHH15, GFvR18, GLMC16, GT19, ION+17, KH15, KSVB18, LVTR15, LO16, LDGH16, LDHJ15, MBSS15, MT18, NCP+17, PSB+18, PK17, SCQP16, SWMD17a, SYV17, TK15b, ZJS15].

Computer [Fed17, KL17a]. computers [GP18, WLC15, YM17a].

Computing [BJTZ15, VMN+18, CAA18, GN16, HLTC18, QLS+19, VCNP18, XP15, YPC19, ABR16, Cac15a, Cac15b, DLN15, FHY+19, GH17b, GY17t, GP16c, HAPK15, HXB15, OD15, RGPS17, RLP16, Roy15, Rua18, VYP15, VCNOP15, VCNOP18, XJ16, XZZ15, XY15, ZAK15, ZRT18].

Concave [AKM+19, WT16]. concentrated [ZVO15, concentration [Bhd18, Han16, LPS16, LDW15, SG16]. concept [AB15, SKO17]. concepts [KK17b]. concurrent [TKB+15]. condensates [ALT17, Rua18].

Condensation [FSK+16, KKLS17]. condensed [MN16]. condition [BSP18, BG16a, Don15a, Don17, GSK18, GS17, HG18, HH15, KLS15, LM18, LHA16a, MK15, Mat18, Ols15, PLL+15a, PSN15, PKJ+18, SF18a, SL16b, SJH+15, Vai15, WSY16, YD18]. condition-enforced [WSY16].

Conditional [FLV18, LDHJ15]. conditioned [Cot16, JWH16, PPLC16, SO17, WBC+16]. conditions [AMN18, AR16a, AMP16, AHH18, ABG16c, BC18b, BD18, BJ15, BBN18, BNS17, BPTA16, BG19b, BAR15, BHMS18, Cha16, DGL+15, DS15c, DSSP18, DL18c, DKK15, EG18b, FN17, GGT15, GVTQ16, HL15a, HTFL18, HP17, HKH+16, HY15, Hue15, JSP16, JW15b, JSY15, KSM19, KZ15, KHH16, LLEK17, LXC+15, LCK16, LZ17b, LFT+16, MTT19, MP15b, MMP18, MN18c, NW15, PGCG18, PCN15b, PE16b, PM15, PDRB17, RZ15, SS17a, SK15a, STG17, Stii15, SC18b, TSN16, TT+16, VAD17, WN18, WSY16, WGME17, XP15, ZSX17, ZHZ16, dDPG19, Pan15]. conducting [DFRZ16, MML17, Par15, Par17, Par18b, SF18a]. conduction [CP16, HC17, conductivity [BMP18, HS17a, KK17a, LY17b]. cone [PS17]. configuration [MP16]. configurations [RG15]. confined [GBCF15, GBCF16, GSS15].

Confinement [Ram17, Sid18, RKL18].
conformal [ADGN17, BC16d, Dom18, Fuj19, i115, MC17, RMBN18].
conformation [MOAA15]. Conforming
[FKS19, CZBC+18, FNNB19, GM19, RRD16]. conjugate
[ALT17, MBHS17, NSK+16, PLC18, STK+16, VYP15, VBG16, YK15, ZVO15].
connected [LDL+16], connectivity [HM19, Liu16]. Conservation
[Sla16, Abg18a, AW18, BD15b, Ball15, BT16, BK16b, BLD15, Bra16a, 
CCRdL17, CHOR17, CS17a, Chai15, Del15, DC18b, DL18a, DL18b, EFT15, 
FPASS16, FS15, FS17b, FHA17b, FHA18, GKN18a, HLS15, HAH16, 
IBML16, IC17, IDSG15, JL18c, KGS17, KG15, KC18, LMS17, LPG18, 
LMBZ15, LY15b, LHGF16, LSI16, MDVM16, MDHC15, MRXI17, 
MB15, MFG15, NT15, NMM16, NR17, NG17, NG18, Nor15, PxRS17, SW17a, 
SL18, SWZ15, SWLZ15, SW16, SWPS17, SPP16b, SKC17, TLQ15, TM15a, 
TKP16, VNA15, WLGD18, ZP16, ZPW18, ZQ16b].
Conservative
[ARF18, ADGN17, CCS18, CNG99, CCK+18, IM17b, PF15, TPT16, VSC18, 
ZSL+19, AHNF15, AMH+18, Abg18a, AASPT18, APP+16, AM17b, BN17, 
BTVB15, CQQ16, CNG17, CC16a, CC17b, Chai18, CD17, CSH15, DGM17, 
DVxW18, DSS18, Du18, DB16b, EHXM15, FGL18, FL16, GSK18, 
GWCC17, HHA15, HSK+15, HHY15, JW16, JH17, JJ18a, JJ18b, KJYC17, 
KL18a, KL18b, LGH+18, LHA15a, LHA15b, MS18d, NOM+17, NN17, NF17, 
OvdHVH16, PNZ18, PHHA18, PA15, QWX18, SGMS16, SA16, SFT16, 
SWLZ15, STV18, SOS19, SLY16, SY18b, SMAG17, SCC19, SK18, TCS16a, 
TN18, Wac15, WWR16, WH15, WZ15, WKEOE17, WRL18, XS19, Zad11, 
ZA15b, ZG17, dLKK19, FRO17]. conserved [Sto17, WSS+15]. conserving
[BC18b, BMC+18b, CZZ15, FGL16, GK19, HJZC17, JST17, Lap17, LSYF15, 
OD17, PG17, SLN15, SD16, TC15a, TKC15, TCSM15, WG16b].
considerations [Co18]. considering [MKV+17]. consistence
[LHA15a]. Consistency
[Don17, AW17, DDJ19, NG17, NG18, Stü15, Stü17]. Consistent
[MLB16, ADFG17, BAGK16, Bre17, DK18a, DK18b, DWG+18, Don18, 
HH15, HL15a, JSP16, KS18b, KKR+18, MD18, NN19, OMLD16, OLD+16, 
OLB+17, PKP+17, PN18, PN17, Pei16, PS14, PS15a, PMGW16, RMC15, 
STK+16, SK18, TFGK18, TTN+16, TKP16, TSR15, Wac15, WY17].
consolidation [AGR18]. Consortium [TM17, TK16]. constant
[BMP18, LT2A15, MNR17, OKE17, WG15, ZC18]. constants [OKE17].
constitutive [TBO+16, ZLC+18]. Constrained
[BKS18, Cot16, CLNH15, TPB16, VCEK19, FS18, FMPT18, JME18, MAP17, 
Moc17, Tav15, TD16b, VLN+18, XX16]. constraint
[BTGM17, BGTM18, BK19a, CEL18a, FG18, PBP18, RS16a, SD17, XY17].
constraint-based [PBP18]. constraint-preservation [BTGM17, BGTM18].
constraint-preserving [BK19a]. constraints
[ADE+17, DRP+16, EST17, HX16, WT15]. construct [Abg18a, SG1+18a]. 
constructed [SGC+17]. Constructing
[AEAM15, FN17, LTR16, DB18, EG18a, HHR15, KV16, RT16, XY17].
Construction [HY17, RSB16, AG16, MW16b, OS15a]. consumption
Contact [BM19a, LRZ17, ABG+18b, DL17, DHH+18, Don17, FB17, FRL15, FPV18, Gan15, HW18, HKS+16, LPGT16, LD15, Liu16, LDGH16, LHA16a, MAK15, PR16b, SYY15, SSA17, TP16a, XZT18, YY17, ZDGW16, ZVO15].

Contact-angle [Don17]. Contact-aware [LRZ17]. containing [LKB15].


context [KGS17]. continental [CS18a]. continua [CEL+18b].


Continuously [Bar18]. Continuum [ISST18, CCP19, CX15, CDX+18a, DKK+18, DPK16, DPRZ17, GSL18, HS17a, Har18, HKS+16, JAC17a, KGP+17, LXSC16, MSK+15, SSDN15, YSWW16, YXX+16, ZWG17].

continuum-kinetic [Har18]. contour [ZGD+16]. contoured [DKC15].

contrast [KCV17, ML16, RVZB15]. contrasts [BDPM18]. Control [AEL+15a, AGV+15, APP+16, AEL+15b, BMRA+15, FW18, FDK17, GM16, KMD+18, KYW+16, KNY+18, KSSL18, LC17a, LM19, Lot18, NJPB17, Pea15, SPX+18, SWH15, SPM16, VLAB18, WBM15a, YK15, ZILZ15].

Control-volume [AEL+15a, APP+16, AEL+15b]. controllable [ZZH16]. controlled [EMSS17, MRPe+15, PD15]. Controlling [VZ16]. convection
[BLC+17, BGM16, Cai16, CHY16, CB18b, Cui15, DY19, HY15, HYY16, JJ17, Kay15, KS15a, Lap16, LP16b, Liu16, LFT+16, PKLC16, PKLC17, RTO15, SGN16, SL17, Shu16, Sir19, SPZ18, WLM15, WB17, WC18, WSF17].

**convection-diffusion**

[Bui15, DY19, HY15, HYY16, LP16b, LFT+16, SPZ18].

**convection-diffusion-reaction**

[JJ17, KS15a].

**convection-dominated**

[Shu16, WB17].

**convective**

[Don15a, KTK18, MS15b, STK16, tEDKT17].

**convective-like**

[Don15a].

**Convergence**

[FHE15, HD15, HZ15, JPL115, SAEF17, AWJ17, Ata15, CBC+18, GB15b, GSS15a, GPAO+18, GDS+16, GDA16, KMD16, KW15b, KDL15, LHA15a, MZAF17, NNW17, PA19, PWP15, SHA16, SVG18, SDJU15, SWZW19, WTL17, YJB18, ZHLZ18, ZS17].

**convergent**

[BCC18, IZ18, NKN+17, OS15a, OL16, SLH18, Svå15].

**conversion**

[IG15, JLKF17].

**Convex**

[GZ18, CFF18, DF16, EEG+15, IM15, JW16, LM15b, LHGF16, SLL16, SGD18, SLL17].

**convexity**

[DRP+16, GO16].

**Convolution**

[SS17a, VGF16].

**convolutional**

[SZF15, ZZ18, DZR18].

**convolutions**

[Han16, RB18].

**Cook**

[ZYCK15].

**coordinate**

[BDV17, PX15, Pru18, SMS16].

**coordinates**

[BtTBI18, CX16, EHXM15, EG+15, FRW16, HB15a, LBZ16, LMB18, OvdHVH16, PS15b, TLH15, TVB+16, VBL+16, VMM19, VSC18, YFJ18].

**copolanar**

[KW15b].

**copolymer**

[CYS17].

**core**

[CPSF17, Cos16, HBC16].

**Coriolis**

[ADOP18, SD16].

**Corner**

[DBZ17, BMCK15, ZFZL15].

**Corner-corrected**

[DBZ17].

**corner-free**

[ZFZL15].

**corners**

[AKM+19, DCCC16, HK18b, SR16, Tsa16].

**corona**

[VBG17a].

**coronary**

[BFI16].

**Corrected**

[CW18, DBZ17, HR18b, LK117, Loh17, RMD+18, RSD17, SFDE15].

**Correcting**

[BH16b].

**Correction**

[Kat16, AMN18, ALL18, BLL19, BG16a, BDJP19, CWS18, CLX15, CGH17, DRP+16, Dw15b, DS15c, EH18, GLT18, GXX17, HX16, HDA+18, HQ16, HXX18, JLC15, JLF17, KW15a, KS16d, PK16, PBC+17, RöS16, RS17, SMS16, SM16, SW15, Sir19, WMYG16, BK17a].

**correction/finite**

[KW15a].

**corrections**

[HSM19, WWR16].

**corrector**

[BK16a, NS19, PHRA16].

**correlated**

[Zau16].

**correlation**

[AKZ16, LT17b, TMWF18].

**correlators**

[BPF+16].

**Correspondence**

[Moc17].

**Corrigendum**

[ASS17, BR16, CNG17, Dav15, DK18a, GBCF16, HGN17a, KGY+18, MN17, NG18, PS15a, SWMD17a, SYV17, TK15b].

**corrosion**

[JS16].

**CORS**

[ZD15a].

**cosmic**

[BPF+16].

**cosmological**

[SPM+15].

**Cosserat**

[AMM15].

**cost**

[CCBdL15, LHMB18, LY15c].

**Couette**

[JL16, SWL19].

**Coulomb**

[HLL+18, RKH15, TSR15, YC15].

**count**

[HSF17].

**counter**

[ZW15].

**counter-intuitive**

[ZW15].

**counterpart**

[SPW15].

**Counting**

[GP18].

**couple**

[BMT18].

**Coupled**

[BLS16, CMDL18, FKDL17, GAS+18, QWX18, RTG15, AEL+15a, AEL+15b, AEL+17, BP18, BK16b, BUK16, BKB15, CBZ18, CGS18, CWF16, CY17, COV18, CFP17, CGM15, DGW18.
DMAM15, DLM18, DPRZ17, EH18, GDS+16, GC17, HGN17a, HGN17b, HM16b, JTR16, JGS16, LHW+17, LMKS15, LY16c, LHVG18, MMN16, MRp+15, MG15b, MNO+17, MMMS15, MKV+17, PF16, QYF15, RRD16, SMOM+17, SF16, TH18, TMWF18, TPT16, TT17b, TPT18, TC15d, VCEK19, VLP+16, WE15, WED15, XDvW17, YS15, ZL15b, ZZPH18b, ZZPH18a, ZSX17, ZBZ18, MHL17, SGD18. **Coupling** [CFSN18, CFG16, JH15, LB17, MNG15a, MDL16, MTZ16, Wic16, ALKZ16, BCD+15, BK018, BRK17, CD18, DKPC15, ED16, FHH17, FHE15, HBC16, HG17, HLSY16, ISST18, ID17, KLC18, LPB17, LMC16, LPBR15, LMR18, PCN15a, PHO+16, PAL+16, PWP15, PME+15, TKB+15, TAJ+17, VKE+18, WWR16, WPB15, WE15, XYF+17, YG18, ZYK18, ZRE16, dSPDH15].

[MTD15, MDT16].

D [CZ17, CSK+16, DWGW16, DSSP18, PS17, Sto16, TCS16a, TRL15, VLP+16, WSH+17, ZJS15, ZSL+19, AG16, AHHC18, ACS16, ALTR17, BHZ16, BK17c, BGV17, BDK+17, BS15a, BT16, BSM16, BC16c, CBC+18, CMGH18, CDL17, CGL18, CGK17, CCZC16, CZ16, CX16, CSK+16, DDB+17, DF16, DD16b, EL18, FDS+15, FL18, FNGV18, FNGDMNR18, FGLB16, FC19, FYC+18, GFW16, GFL17, GWC18, GHL+16, HWH+16, Hu17, HLC19, IG15, KEB+17, JBO15, KQB18, KE15, KES18, KC17c, KFWK17, LMP15, L15a, LFRH17, LML+16, LG17, LHMB16, LZ17a, LJJ18, LST+15, LJD16a, LMD19, MKYZ17, MG15b, MC15, MF16a, MW17b, Mue18, NMM18, NMM19, Noe15, Nor15, PG17, PGCG18, PK17, PKJ+18, PR16a, PMGW16, PTT18, QDH15, RBY19, RLP16, SNSG16, ST18b, SFT16, S18c, ST18c, SSL+16b, TCL15, VLP+16, WY17, WXW15, WSU15+16, XQ17, YJ17, YSJ18, YPC19, YTW15, YXD+16, YPK16, ZBH+18, ZND16, ZGJ16, ZZ17, Z18, ZVO15, ZYCK15, ZZW+16, dBIM16, dJRP+15]. D- [TCS16a]. D-TDIBC [DSSP18]. D-VAR [FDS+15]. D/ [CSK+16]. dam [GWYS18]. dam-break [GWYS18]. Damage [CF15, BJ15, HM15].

damped [Z17, YJ17, DFM17]. damping [CGTH18, HSC16, NNW17].

Darcy [AEL+17, BMT18, KLGO18, LTB18, MTZ16, Noe15, STG17, WSN+18, XML17]. Darcy-flux [AEL+17], d'Arolla [AS17].

Data [AMPG19, BV18, KL17, LSD18, SG16, ZYK18, ATM+18, ACC+15, ADP+17, AAPB17, BFP18, BGG16, BHJ15, CR17, CMG18, CCM15, FG18, GS15c, GM16, GBZB16, IPSG15, KL17a, KYO15, KZG16, LW15a, LZZ+17, LMB18, LRR+17, MM15, MP17, MCGS16, NKN+17, PP15, PD16a, PLB18, PND16, PF15, RPK17a, RS16a, RR+16, RVMR17, STHW17, SG18, SWS17, SD17, SWX18, Sl16a, SWH16, SN15, TBL15, XWW+16, XY18, YN17, YM19, ZZ17a, ZWB+18]. Data-domain [ZYK18]. Data-driven [BV18, KL17, LSD18, SG16, LBB+17, LMB18, PD16a, XWW+16, YM19].


decaying [Bra16c]. decentered [Fal15].

decoder [Z18]. Decomposition [JHPAT17, AH15, AABD15, AA15, BBO15, BLK15, BMT18, DA17, DGL+15, ETAG15, FHY+19, FHA17a, GM19, GFW16, HLS15, Jer19, JL15, LS15, LBLA, LMG17, MLN18a, MB17, MCS16, PLL15b, R16, RT17, RBB17, RBN18, SW18b, SL16b, SC18b, SW17, TCA16, Tav16, T17b, TST17, TSST16, VSM17, W16b, ZFPB16, ZYCK15].

decomposition-based [WH16b, ZYCK15]. decomposition-synthesis [MCS16]. deconvolution [WSN+15]. Decoupled [CBZ18, CNYJ15, FL15, OD15, PKLC16, PKLC17, SD18, ZYWS16].

decoupling [CFG16, QWXZ17]. Deep [YM19, AZ16, DGW18, FS17a, PLL15b, RPK19, SS18b, TB18, ZZ18, TB18].
deep-water [FS17a]. deexcitation [YCBC15]. defect
[RSD17, SM16, SWZ17, WMYG16]. defect-correction [WMYG16]. defects
[GP18, GBS15, PD16b, TZSS17]. deferred
[CLX15, CCGH17, GXX17, HSM19]. defined [WDGW17]. definition
[CP16]. Deflation [JTD16, SLR+16, vdLJLV16]. Deflation-accelerated
[JTD16]. deflection [DHH+18]. deformable
[LRGO18, PME+15, SMA+16, SMOM+17, YM17b]. deformation
[ANL+16, FHY+19, FRW16, GBvZB16, KAR17, LY16c, MTL+17, SKS17,
WQZ15, WTS+17, YG18, ZL15c]. deformations [GSL18, GLS15].
deprecated [QYJ19]. Deforming [SYV17, LHB+16, LY15b, MMSS15,
NN15a, NN17, NN19, RB15, SYV14, ZP16]. degenerate [BTA17]. degree
[Bre18]. DEIM [SSN15]. delaminations [GD19]. Delaunay [WQZ15]. Delayed
[DSSP18, AC16]. Delayed-time [DSSP18]. delta [EG17, HNS16, XM18].
Delves [HB15b]. DEM-IB-CLBM [ZZPH18b]. dendritic [DMS17]. denoising
[CWL+16]. denominators [HPV16]. dense
[AAD16, BVM17b, DAO17, KBK15a, SG19, SYM15, WZR15]. dense-to-dilute
[DAO17]. densities [BCST17, YY17]. Density
[GS16, AKZ16, BVM+17a, BEJ15, BC16b, Cai16, CZL+15, CVK16, CDV17,
DLY17, EJM18, FB17, GZHL19, HW18, KP15a, KLC18, LIMH16, LT16b,
LL16a, LT17b, NGY+17, NSK+16, PAFT19, PLB18, RFGSV15, SP15a,
SH+16, SK18, TKF17, WSY15, WSS+15, WSH15, WSF17, XDSX17,
ZLH+17, Zl15]. density-stratified [Cai16]. dependence
[FW17]. dependent
[AR16b, AWJ17, BHL15, BOA17, BCB15, BSWG15, CR17,
CHY16, CX16, CGJ19, Chul17, CLP16a, DD16a, DKFC15, DBMB15, FM15,
GSL16, Gai15, Gen11, Gho17, GKN17, HL16b, IKS19, KBK15b, KFL17,
LD15a, ILNS17, MCN18, MMMS15, OKWE17, PLC18, PHRA16, RRD16,
STEK17, SS15b, Shul16, SP15b, Sub15, SJXL15, Zha16]. depletable
[SN15]. depletions [GLTB18]. deposed [AASRT17]. deposition
[MZ15, TT17a, TP16b, Zoh17]. deposits [JS16]. depth [DV17]. Derivation
[GPS17a, RSSSE18, Sch16a]. derivative [AHKT17, CF15, CGM18, Cha16,
DBZ17, DLC15, DLY19, DZC16, FC16, HL16b, JW15b, Kat16, MBSS15,
NDCB17, OM15, OLB+17, Par17, RCRF16, Roy15, TVB+16].
derivative-free [FC16]. derivatives [BKP16, CZ16, CZ17, GGT15,
PHSTc15, Mac15, MD17, MN04, MN17, ZzSK15]. derived [JL16]. deriving
[DC18b]. descending [XL17b]. descent [FSWW17, MH18b, TP16b].
described [CF15]. describing [AMM+15]. Description
[ALKZ16, DTA+15, SG19]. Design
[BTVC16, Dom18, FBC+16, GM16, TCS+16b, BDB+17, CC16b, GGW17,
KL17a, Kon16, NP16, NW15, RPC+18, WLL16, WHL17, vLt1B17]. Design-order
[Dom18]. Detailed
[Did17, MHGM+15, JD19, LSYF15, MA16, VLP+16, XNR18]. Detection
[ACC+15, ABT17, EE+15, CW16, CW17, Gno17, JdR+18, KLA17, PQR17,
WLL16]. detector [LS16]. deteriorating [PT17a]. Determination
[HK16b, EZG16]. deterministic [Dav10, Dav15, RMC15, SS15b, TAJ+17].
deterministic/stochastic [TAJ\textsuperscript{+}17]. detonation [Hu17, RA17, WDS15]. Development [AKZ16, BV15, BLG\textsuperscript{+}16, CBC\textsuperscript{+}18, DDJ17, KYPK15, RBY19, TM17, YSWS16, ZLGS18, Ani16, CYYL18, LPR19]. Developments [IC17, PMF\textsuperscript{+}18, Shu16], deviational [Yan16a]. device [BPD19, FKF17]. devices [BL16, NOM\textsuperscript{+}17, RKH15, WPB15]. dewetting [ABG\textsuperscript{+}18b, BJWZ17]. DFFD [CH17]. DFM [BHTT17]. DFT [BW18b].

Development [AKZ16, BV15, BLG\textsuperscript{+}16, CBC\textsuperscript{+}18, GA18, BV15, BLG\textsuperscript{+}16, CBC\textsuperscript{+}18, DDJ17, KYPK15, RBY19, TM17, YSWS16, ZLGS18, Ani16, CYYL18, LPR19]. Developments [IC17, PMF\textsuperscript{+}18, Shu16], deviational [Yan16a]. device [BPD19, FKF17]. devices [BL16, NOM\textsuperscript{+}17, RKH15, WPB15]. dewetting [ABG\textsuperscript{+}18b, BJWZ17]. DFFD [CH17]. DFM [BHTT17]. DFT [BW18b].

Development [AKZ16, BV15, BLG\textsuperscript{+}16, CBC\textsuperscript{+}18, DDJ17, KYPK15, RBY19, TM17, YSWS16, ZLGS18, Ani16, CYYL18, LPR19]. Developments [IC17, PMF\textsuperscript{+}18, Shu16], deviational [Yan16a]. device [BPD19, FKF17]. devices [BL16, NOM\textsuperscript{+}17, RKH15, WPB15]. dewetting [ABG\textsuperscript{+}18b, BJWZ17]. DFFD [CH17]. DFM [BHTT17]. DFT [BW18b].

Development [AKZ16, BV15, BLG\textsuperscript{+}16, CBC\textsuperscript{+}18, DDJ17, KYPK15, RBY19, TM17, YSWS16, ZLGS18, Ani16, CYYL18, LPR19]. Developments [IC17, PMF\textsuperscript{+}18, Shu16], deviational [Yan16a]. device [BPD19, FKF17]. devices [BL16, NOM\textsuperscript{+}17, RKH15, WPB15]. dewetting [ABG\textsuperscript{+}18b, BJWZ17]. DFFD [CH17]. DFM [BHTT17]. DFT [BW18b].

Development [AKZ16, BV15, BLG\textsuperscript{+}16, CBC\textsuperscript{+}18, DDJ17, KYPK15, RBY19, TM17, YSWS16, ZLGS18, Ani16, CYYL18, LPR19]. Developments [IC17, PMF\textsuperscript{+}18, Shu16], deviational [Yan16a]. device [BPD19, FKF17]. devices [BL16, NOM\textsuperscript{+}17, RKH15, WPB15]. dewetting [ABG\textsuperscript{+}18b, BJWZ17]. DFFD [CH17]. DFM [BHTT17]. DFT [BW18b].
CLZ18, CLZZ19, CLR15, CG15, CCM15, Cui15, CwYjS16, DS15a, DS15b, DD16a, DMSC16, DJL+19, DY17, DYL19, DY19, DB18, Fal16, FBF15, FHE15, GSS15a, GS15a, GPS17a, GPS17b, GBU15, GLW18, GL17, HG17, HSC16, HY15, HHY16, IZ18, JPLL15, JW15b, JW16, JZ16, JLLZ15, JJ17, Kay15, KS15a, KSM19, KKL17, KBK15b, LE16, LAL18, LP16a, LPB17, LW17c, lLNS16, L217b, lLNS17, LMMS16, LP16b, LM19, LM15c, LLLN18, LFT+16, Luc15, MBSS15, MMNI16, MD18, MS18b, MK15, MN16a, MM15, MP15a, MMvR18, MDDM17, MSP15, MSP16, MW15, MN16c, NJHL18, NN18, NL18a, Nis18a, Nis18b, PD15, QDH15, Rag15, RRL19, RB15, RZ18, SAEF17, SWG+17, SF18b]. diffusion [SY16, SYM15, SYM17, Sir19, SMD18b, SSM15, SX15, SGA15, SPZ18, SPRW15, SDW18, SLZ+17, TWN15, TW17, TK15a, TSH17, MT17, WZ15, WY16, WW17, WHY17, WHY18, WCL15, WZ17, YHQ15, YNN+17, YMI17b, YLA15, ZSW17, ZG18a, ZZ16, ZZL+17b, vEKB16]. diffusion-controlled [PD15]. diffusion-limited [BL18]. diffusion-reaction [MN16c]. diffusion-wave [BJO18, BDBEE15, HSC16, YLA15]. diffusive [AJVH17, BHdD18, BR15b, BR16, BL+17, JXLQ15, JZ15, JZ17, Liu19, MP15a, SAOW17, VDPP15, ZHWQ18]. diffusivity [HK19]. DIII [WSU15]. DIII-D [WSU15]. dilatancy [MDP18]. dilute [DAO17, SGP17b, Yan17]. Dimension [CLM16, TLQ16, AS15, CQ15, YM17b]. dimension-adaptive [CQ15]. Dimension-by-dimension [TLQ16]. Dimension-independent [CLM16]. Dimensional [NN18, AR16a, APR+15, AEL+15a, AEL+15b, AB16b, APT17, An17, ADOP18, BAI15, BVG+16, BOI17, BHI16, BGL+17, BAI5, BHI18, BLS16, BVT18, BGG16, BGJ+15, BHMS18, BT175, CB15, CCZ18, CQ15, CP16, C217, CLZ18, CHI17, CVK16, CG16, CM18c, Cot18, CLM17, Cyw17, DCA+16, Del15, DvW15b, DZ16, DHI+18, DvB17, EDW17, FDK17, FS17a, FST15, FPDT17, FK17, GMD19, GIF18, GS18, GGL+17, GN16, GT19, Gri19, HTFL18, Hiv18, HYL17, Hue15, IGG15, IDG15, IM15, JL18c, JG16, JJ17, JSY15, KF15, KA15, KFW17, Kou16, KS15b, LGO17, LLL16, LPR18, LL16c, LIL16, LSL17, LD15, LST15, MK16a, LW17d, LW17e, LMSK17, LEB+17, MN18a, MHL17, MDB17, MBM+15, MB15, MLB16, PxRS17, PHHR17, PK16, PCN15a, PCN15b, PR16b, PF15, Ram17, RG15, RSI16a, RDG17, RKR17, RXS15]. dimensional [RXS16, Rod18, SG18, SVL18, SD17, SSA17, SX15, SSM15, SF16, SWZ17, SK15b, SLZ+17, TCM15, TCS17, TCA16, TD16a, TSH17, T217, TBO+16, TSB+18, T16, T216, TB16, TC16, VCN18, VNA15, VSM16a, VSM16b, WS15, WDS15, WCN15, WRL16a, WRL16b, WTC16, WHY17, WLE17, WHE17, WWGK17, XLM17, YSW15, YK18, ZMF15, ZK16, ZL15a, ZLL16a, ZYW16, ZBZT17, ZCL17, ZL15c, ZWB+18]. dimensionality [BBG16, TBG16]. dimensionally [GNK18a, GNK18b]. dimensions [BHJ18, BSH18, BY17, CC16a, CM18b, CB18b, GCRV17, DS15a, DS15b, DL17, Ein19, ECC18, F18, FS16, HN17a, KSV18, RVZ15, SHK16, Vee16, WCT18]. Diminishing [SI16, DWG+18, SLMDV18]. diodes [DS15d, JB15]. dioxide [GGL+17]. Dipole [MML17]. Dirac
[ASS17, ASS13, Alm19, EG17, FGLB16, HNS16, KML18, Pin15, PS17].

Direct [BLD15, CR17, FKY15, KLNH17, LRA17, MTT19, OMYvdP+15, Par18b, PGGW18, RW15a, SAK18, ZN18, BS15a, CDC17, CHY16, CYL+16, CYYL18, CC16c, CGP16, CJW18, DY16, Eva18, GB15b, IM17a, KNS15, LWTF19, PPLC16, PG18, PVB17, RS16b, RLV16, STK+16, TFGK18, YS15, ZG18b, Mac16]. direction-forcing [LWTF19, PVB17].

direct [BLD15, CR17, FKY15, KLNH17, LRA17, MTT19, OMYvdP+15, Par18b, PGGW18, RW15a, SAK18, ZN18, BS15a, CDC17, CHY16, CYL+16, CYYL18, CC16c, CGP16, CJW18, DY16, Eva18, GB15b, IM17a, KNS15, LWTF19, PPLC16, PG18, PVB17, RS16b, RLV16, STK+16, TFGK18, YS15, ZG18b, Mac16].

direct-forcing [LWTF19, PVB17].

direct [BLD15, CR17, FKY15, KLNH17, LRA17, MTT19, OMYvdP+15, Par18b, PGGW18, RW15a, SAK18, ZN18, BS15a, CDC17, CHY16, CYL+16, CYYL18, CC16c, CGP16, CJW18, DY16, Eva18, GB15b, IM17a, KNS15, LWTF19, PPLC16, PG18, PVB17, RS16b, RLV16, STK+16, TFGK18, YS15, ZG18b, Mac16].

Directly [ZQ16a].

Dirichlet [ABN15, ED16, GBD17, KHHN16, WZ15, YK15].

Dirichlet-to-Neumann [GBD17].

disconnected [GT19].

discontinuities [GLTG15, HZL+15, WS15b].

discontinuity [DS15a, DS15b, DIX+18, PE16a].

discontinuous-Galerkin [NJ15, Sch16b].

Discovering [PPCK17].

Discontinuous [BHGD18, BD17, BKR15, BKKRB16, FNP17, HGN17a, JHT+18, NLW+16, OWKE16, Rag15, TSC17, TRL15, ZK18, ZN16, AG16, AM17a, AGC19, AS15, APKP16, ADK+17, BST+18, BDM17, BCJL17, BFT17, BC1B17, BD18, BT15, CGQ18, CGMH18, CW+16, Cha18, CW19, CJD+17, CHY16, CS17a, CYL+16, CYYL18, CZL18, CCKQ15, CLG+19, CXY19, CR18, CK16a, CK16b, CCGH19, DM17b, DKK+18, DLL+17, DY19, DL16, Ein19, EHXM15, FW17, FK18, Fer17, FX18, FBM16, FSB16, FS17b, GKW16, GCVMK15, GBC+18, GSN17, GX15, GI15, HR18a, HL16a, Hig15, HS18b, Ism15, JAH19, JH17, JTD16, KDF15, KM16b, KFF+17, KRFV16, KG15, KFKW17, LMH16, LLP+16, LP16a, LPR18, LX18, LSR16, LT16b, LP16b, LY16b, LW17e, LSZ18, LMB18, LLLN18, LH15, LI15, LS16, MSG18a, MLMI8, MRRRF18, MK17, MN16a, MKC17, MF16a].

discontinuous [MLB18, MSP15, MSB+16, MPPS17, MH17, NdLPCC19, NMM17, NJ15, NPC15, NPRC15, NDBC17, Nis18b, OKWE17, OKE17, PL16a, PA19, PE16a, PP19, PC15a, PP17, PP18b, PBM18, QSY16, QHD15, RXSG15, RDM15, RR17, RRMF+19, RBL16, SPX+18, Say17a, Say17b, Sch16b, SWG+17, SMP16, SZ15b, SS16c, SPZ18, Sti16, SWZW19, SCS18, TH18, TD16a, TD17, TD18, Ten16, TM15a, TXKvdV15, TXKvdV16, TLB+18, UL16, VPV+17, VCNOP18, WW15, WT16, WLG16, WLGK17, WWMG18, WG15, WMM+18, WBM+15b, Xia15, XJLQ15, XL16, YY16, Zha16, ZHL+17, Zha17c, ZF18, ZY19, ZT17, dFVJ15, vOMB17, HGN17b, LOHD17, PSB+18, DDM18, RHS18].

discontinuous-Galerkin [NJ15, Sch16b].

Discovering [PPCK17].

Discrete [ACGR15, BNS17, LMPS15, LPG18, MHS16, SP18, WYZ18, AEL+17, ADIH15, BCST17, BB+16, BP16, BC18c, BS18, BHTT17, CC17c, CV18, CwY16, Dl15, DWGW17, EFHZ17, FNNB19, FKS19, HZL17, HCVH18, HH15, Hwa16, JLQX15, JKE+17, LFR17, LC15, Lox17, MWD16, MRM16, Mas18, MZ15, NBT19, NMA15, NHA18, NN15a, NN15, NN15b, OWKE16, OKWE17, PL16b, SSDN15, SVG18, SWK18, SGL17, SDW18, SLZ+17, TZGW18, TAH16, VLT16, VBF15, Xia15, XRRM15, YSW16, ZNX15, SMAG17, dPSS16].

discrete-adjoint [VBF15].
discrete-forcing [LC15]. discrete-ordinates [Mas18]. discrete-time [BSP18, MWD16]. discrete-velocity [HLML17, JLQX15].
discrete/continuum [SSDN15]. discretely [Cha18, CW19]. discretisation [ABP+16, AGC19, DXvW18, GBD+15, OLHD17, OWKE16, SSM15, Smi18, TFGK18, DDM18].
discretisations [MRRRF18, OKE17]. Discretization [BSP18, MWD16]. discrete-velocity [HLML17, JLQX15].
discrete/continuum [SSDN15]. discretely [Cha18, CW19]. discretisation [ABP+16, AGC19, DXvW18, GBD+15, OLHD17, OWKE16, SSM15, Smi18, TFGK18, DDM18].
discretisations [MRRRF18, OKE17]. Discretization [Dav10, Dav15, FPDT17, AD15, AVT17, BHE+17, BFNGDNR18, BKR15, CDM+16, CGS18, CI17, CM15, CHD+18, DvB17, DS15d, DCD+18, DL18c, EGI17, EDK19, FNGDMNR18, FW17, FKS19, GZLH19, GDA16, GSMR18, HR18a, Her16, HLML17, HK15b, KL18a, KML18, LMMS16, MSK18, MMvR18, MRRRF18, OKE17].
discretizations [MRRRF18, OKE17]. Discretizations [Dav10, Dav15, FPDT17, AD15, AVT17, BHE+17, BFNGDNR18, BKR15, CDM+16, CGS18, CI17, CM15, CHD+18, DvB17, DS15d, DCD+18, DL18c, EGI17, EDK19, FNGDMNR18, FW17, FKS19, GZLH19, GDA16, GSMR18, HR18a, Her16, HLML17, HK15b, KL18a, KML18, LMMS16, MSK18, MMvR18, MRRRF18, OKE17].
discretizations [MRRRF18, OKE17]. Discretizations [Dav10, Dav15, FPDT17, AD15, AVT17, BHE+17, BFNGDNR18, BKR15, CDM+16, CGS18, CI17, CM15, CHD+18, DvB17, DS15d, DCD+18, DL18c, EGI17, EDK19, FNGDMNR18, FW17, FKS19, GZLH19, GDA16, GSMR18, HR18a, Her16, HLML17, HK15b, KL18a, KML18, LMMS16, MSK18, MMvR18, MRRRF18, OKE17].
discretizations [MRRRF18, OKE17]. Discretizations [Dav10, Dav15, FPDT17, AD15, AVT17, BHE+17, BFNGDNR18, BKR15, CDM+16, CGS18, CI17, CM15, CHD+18, DvB17, DS15d, DCD+18, DL18c, EGI17, EDK19, FNGDMNR18, FW17, FKS19, GZLH19, GDA16, GSMR18, HR18a, Her16, HLML17, HK15b, KL18a, KML18, LMMS16, MSK18, MMvR18, MRRRF18, OKE17].


Dispersion [BGGM15, EL18, MeI18, SL15, An17, CHLZ17, GZY16, GR15, HK18a, JLC18, KMS+18, KD17b, LKN17, MRN16, MT17, M1Z+15, MSP15, NMC15, PFC15, PPCK17, Ram18, SSL+16a, Sto16, URGT18, WA18, YWH15].

Displacement [RVMR17, BST+18, LW17a, SWML17]. displacements [BQCG17, CXY19, RDG17]. dissipating [CG18b]. Dissipation [CZW17, JT18, BR15a, BMCK15, DLLV17, DWGW17, EMM+18, HK18a, HWA15, JLC18, KCS+17, KYW+16, KYW+18, KY16, MGCW18, NMC15, SMD18a, SL16c, WDGW17, WL17, ZHA17a]. Dissipation-based [JT18].

Dissipation-preserving [CZW17, SL16c]. dissipative [AMH+18, Abg18a, AF18, DPK17, DIL+19, KP15c, LS15b, LS16a, LBTK18, MD17, MBM+15, MFG15, PLL+15a, Sto17, YDCK16].

Dissociating [WMS18]. Distance [XL17b]. distortion [TAR17]. distributed [AEI+15a, AEL+15b, CPT16, CLC16, FG16, hGwS215, LAA16, MR16a, WLC15, WX18, YLA15]. distributed-order [hGwS215, YLA15].

distribution [AD15, AB16a, EG17, FL18, GMLD18, GMD19, HNS16, iI15, iI17, IC17, LN17, MN15, STR15]. distributions [BC18a, GWE+15, LL15]. div [LYZ18]. Divergence [Ama15, BD15a, CZBC+18, BK17b, BDG+17, DWG+18, KBR17, PMF15, RRM+16, TPB16, XL16, YJ17, YFJ17].

divergence-cleaning [YJ17]. Divergence-conforming [CZBC+18].

Divergence-free [Ama15, BD15a, BK17b, BDG+17, RRM+16, XL16, YFJ17]. divertor [MP16, TTN+16]. divertors [BDB+17]. DLM [PZNG15, PGCG18].

DLM/FD [PGCG18]. DLM/FD/IB [PZNG15]. DNS
Do docking [PLWJ16]. **Domain**

[IBML16, JHPAT17, JX17, TRL15, AM17a, And16, AA15, BLK15, BMT18, BG16a, CXH15, CLC16, CC17c, Che18, CLQ17, DZ16, DZ18, DvB17, DDV+15, DGL+15, DSSP18, ETAG15, FHA17a, GM19, GFC18, GBD17, GJ15, GHH+16, HXLL15, HGW18, IML15, JSP16, KPJ18, LH16, LS15a, LH15, LLS15, LZ16, LHMB16, LC17a, LHY+19, LZT+15, LK16a, LMM17, LYA16, MS18a, MS18b, MMSS15, MJ17, MMP18, MH17, NBT19, PR16a, PLL15b, PT17a, PBA+15, QDH15, RZ17, SZW+16, SW18b, SZ17, SMSR18, SL16b, SC18b, SWZ17, TT17b, TP17, TST17, WR16, ZP16, ZLY15, ZD17, ZYK18, ZYCK15, ZBZ+18, ZZH16].

domain-decomposition [TT17b].

**domain/active** [LHY+19].

**domain/active-strain** [LHY+19].

**domains** [AB16b, ABFR16, And16, ABG18c, AEvW19, BLS16, BTT18, BC16c, CLZZ19, CFF18, DGHP17, DH18b, ECC18, FH17, FYZ+15, FBF15, FLT18, GS16, GLS15, GN16, GT19, GLT15, HK18b, JW16, JGS16, JTD16, KADE15, KADE17, KBR17, KJ17b, LP17T16, LB15, LCK16, LC16, MMN16, MTZ16, MS18c, NN15a, NN19, NGY+17, NSK+16, NN16, OLD+16, PKN17, RB15, ST17, SHW18, SGT16, SGT17, Towl18, Tsa16, YYN+17, YDCK16, YA15, ZL15b]. dominated [Shu16, WB17].

Doppler [DJD+17, JDFS16].

dosimetry [KSV+15].

Double [LH16, BLC+17, EG16].

double-diffusive [BL17+16]. double-sweeping [EG16].

Doubly [YYL18, BLS16, GD19, HTFL18, HJ18, LH16, LS15a]. doubly-asymptotic [BS16]. doubly-periodic [HTFL18, BLS16, NL15].

down [CLL17].

**DP** [KCW17].

**DPD** [GZM+17].

**DPD-based** [GZM+17].

**DPG** [FKD17].

drag [BLL19, E17, G18, S17, I17, G18+18a].

drift [DDH+18, HK15a, LC17a, RRL19].

drift-diffusion [RRL19].

driven [AZ17, BV18, BC16d, CPT16, CCZ15, CEL15, CV16b, DM17a, DS16, DVP+16, EN17, KA18, LK17, LHZ+17, LHMB18, LSD18, LAA16, NS19, PD16a, SG16, Str17, XWW+16, YDCK16, YM19, Zoh17, dLG17].

driving [BH16].

drop [BL17, JJS15].

**droplet** [BKG15, GLT18, JRPPS18, LZ15b, LWC17, MOR18].

**droplet-droplet** [BKG15].

droplet-laden [BKG15].

droplets [Did17, Gan15, PKB15].

drops [Fed17, SRS19, ST18c].

**DRF** [Bra16c].

**Drucker** [LEB+17].

**drum** [Ant17].

dry [LA18, PP19, WWG18].

drying [AB16, FKY15].

**DSA** [OLD+18].

**DSA-lithography** [OLD+18].

**DSMC** [Mac16, GJ15, GRS15, JL18a, KJ17b, KJ18, MC16, MR15, R18, WPB15].

**DT** [Nor15].

**Dual** [HB15b, MN18c, Stü17, WSN+18, AA17, CLP16b, DZ16, DZ18, Eng18, GCC18, LWY18, NN19, NG17, NG18, OKWE17, Par18a, PJB+19, SF15, TC15b, Y18, ZD17].

**Dual-consistency** [Stü17].

**dual-corrected** [SF15].

**dual-grid** [PJB+19].

**dual-porosity** [GCC18].

**Dual-scale** [WSN+18].

**dualism** [Luc15].

**duality** [SDW18].

**duals** [DPO16].

duct [BB16, TRL18].

**ducts** [CV16a].

due [LM16, MCS16, SZY16].

**DUGKS** [ZWG17].

during [TYD16].

**DVM** [YSWW16].

**Dynamic**

**DD16b, GSN17, LWY18, NLK+15, VKE+18, APP+16, AF18, CL16**.
CvKH16, CFvKH18, EST17, FGL16, Gan15, HCVH18, HKS+16, IQQ15, KSVB18, LMC16, LGD17, MRA16, MG15b, MNG15b, MS15c, MM17, NFG15, OSC18, PD17, RPC+18, TYD16, WY17, WS15b, ZZ17b, ZXL17. **dynamic-solver-consistent** [WY17]. **dynamical** [Blo17, BW18a, BV18, CL18, EL17, GS15b, Lia16, NW17, OSP17, OB17, YM19]. **Dynamically** [ALKZ16, MN18c, CYS17, DBMB15, KG15, MD18, PS16]. **dynamically-orthogonal** [BCSK17]. **Dynamics** [BL18, WB16, ABG+18b, AGBL15, AWA16, AF18, AT16, ABRT, BJTZ15, BKS18, BHD18, BC18c, BBW16, BLS15, BJL17, BZ16b, CZBC+18, DMAM15, Dav10, Dav15, DPK17, DZ18, DG16c, DLR15, DFS16, DJL+19, DPRZ17, EJZ17, FB17, FP18, GS15c, Gen15, GMM16, HSLQ16, HK15a, HM16a, HMBH15, HM17, il15, il17, JME18, JRPPS18, JB15, JLFK17, KM17, KBK15b, KP15b, Kor17, KS17, LSMS17, LFR17, LS15b, LS16a, LBTK18, LK16b, MT18, MHL17, MD15, MGB+18, MMW15, MFG15, NPC15, NLL+15, NLW+16, PLL+15a, Par18a, PQR17, PCBG18, RS17, RSH18, SWC18, Say17a, Say17b, SVG18, SHKL16, ST15, SY18b, SXX16, SKW19, SMAG17, Sto17, SI17, SAW17, SZCL18, SZS15, TY17, TP16a, TAJ+17, TPTT18, TR17, WE15, WTS+17, WH16b, WYA+17b, XZZ15, XWW17, YZW+17, ZL15a, ZLH+17]. **Eady** [YSC+17]. **EAM** [YZW+18]. **EAM/FS** [YZW+18]. **EAM/FS-type** [YZW+18]. **earthquake** [CCWY18, DD16b]. Eca [EH15, XS15]. **EGGs** [NCP+17]. **Eddy** [FNP17, PD17, TABR17, BGV17, BR15a, BPM18, BJ16, CWS18, CLB+16, CC16c, DLLV17, Fer17, FG17, KH15, MD16, MMPS17, NYNYM15, PK17, RS16b, RW18, RBG18, SMD18a, VV16, CL16, CWS18, LM17]. eddy-current [BGV17]. eddy-resolving [MMPS17]. eddy-viscosity [CWS18]. edge [BGGM15, DOD17, DCD+18, GDS+16, GBC+18, GYZ19, KHC+16, MP15b, MP16, NL17, PF15, TBC+16, WSH+17]. edge-based [GZLH19, NL17]. edges [HK16b, Tsa16]. Editorial [Abg16, Ano18y, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano18m, Ano18n, Ano18o, Ano18q, Ano18s, Ano18t, Ano18u, Ano18v, Ano19a, Ano19b, Ano19c, Ano19d]. effect [CM18a, GR15, LHYB17, PQR17, SAH17, VALT16, WX17, XR17]. Effective [DGL+15, GVQT16, XLY15, BPS16, CPT16, CBC+18, Cot16, HS17a, LK17, PYPF15, VS17]. Effectivity [CGTH18]. Effects [NNW17, AAL15, GZM+17, Gen11, Gho17, HCV15, HW15c, KD17a, KCS+17, LW17b, MAH16, MLB16, NWZ18, ST16, SPD+17, SSL+16a, SP16c, VCNOP18, WTL17, YF17]. efficiency [BH1Z16, BT17b, CGTH18, Die15, HLL+18, KK16, LWY18, WBC+16]. Efficient [AG16, ALT17, BL18, BGV17, CS16c, CLS+18, CM18b, CYS17, CLGA17, DNBH15, ESHA16, FNGV18, HE15, HHM17, Jer19, JYY18, KAR17, LZ16, Lia16, LB16, LH16b, MBSS15, MS16a, MPT16, MN16a, MGCW18, NMA15,
NCP+17, PLC18, SBT17, SYY15, SDM+17, SPRW15, TRM16, VSM17, WJD16, XL17a, YM17a, ZS15, bWAW15, ARG+17, ADGN17, ALM+17, AWP16, BGS16, BLM18, BCM15a, BST15, CcdL15, CC17a, CE18, CCZC16, CGC17, CZJ17, CPS17, DZR18, DY16, DLM15, DLNR18, DOO17, DB16b, EMZ16, FHY+19, FWK18, FBG15, FG19, FYC+18, GWB+15, GS15b, GLZ16, GLTB18, GWC17, GX15, HD18, HTFL18, HHCG15, HMBH15, HF18, HWA15, HC17, IPSG15, JBM19, KC17a, KH17, LM15a, LKK17b, Ler16, LWY17, LHY17, LPBR15, LPR19, LWC17, OSKN18, PXLL16, PL18, PSB+18, PMS15, PKJ+18, PSP16, RT16, SXB15].

[SGMS16, SO15, SSN15, SF16, SWLW19, Tav15, TRL15, VBG+17a, VD16, WLWW16, WSOW16, WS15a, XX17, XWW17, ZZZ17, ZL15b, ZGD+16, dICGCA17].

efficiently [Cac15a, Cac15b, ZWUR16].

eigenfields [HK16b].

eigenfrequency [ZC18].

Eigenmode [GFvR18].

eigenmodes [ABT17].

eigenpair [CG18b].

eigenpairs [VYP15].

eigenproblems [MBJ16, MBNJ16].

Eigensolution [MSP16, MDMS18].

eigensolver [AAB+16, ZGD+16].

eigenvalue [ABN15, Alm19, VMN+18, BDKK17, CXX16, GFvR18, HLTC18, JPL15, KL16, KFL17, LHS+18, Loh17, PKA+16, PGH15, XZ15, YM17c].

eigenvalues [ABFR16, ABT17, HX15, HSS16, Jac17b, XJG18].

eikonal [LP17b, NCP+17, TH16, YS17, bWAW15].

Einstein [ALT17, Rua18].

elastic [AHHC18, ABT17, BHJ18, BXY17, Buk16, CHT17, CHJ17, DL17, DHH+18, DWW15, DPRZ16, DKK15, DD16b, GTL18, GFG+15, GH17a, GK19, GSL18, GFL17, GD19, GC17, GBS15, Heu17, KTK15, KDL15, KLRT15, KH18, LC15, LW16, MKS18, PS15b, RM16, RR16, SZW+16, SCQP16, Si17, SZ15, VSDW18, VK15, WJD16, WTL17, XJG18, ZZZ17, ZZB+18, dTP16].

elastic-acoustic [RRD16].

elastic-electrostatic [DL17, DHH+18].

elastic-plastic [CHJ17, GSL18, Heu17, KTK15].

elastic-viscous-plastic [KDL15, WTL17].

elastic-wave [GH17a].

elasticity [FKDL17, RJ19, SY18a, TD18, WXW15, ZZYC19].

elastodynamic [AB16b, CDC17, SGL18].

elastodynamics [CDL17].

elastomers [SAH17].

elastoplastic [MN18b].

elastoplasticity [RSB15].

elastostatics [GBD17].

electric [AAE17, AAE19, BGM15, CCHL15, DvB17, HK16b, KBR17, LDL+16, LYDB17, NWZ18, ZRT18].

electrical [MS15a, VLP+16, YG18].

electrically [Zoh17].

electrically-driven [Zoh17].

electro [DPRZ17, HG17a, HG17b].

electro-dynamics [DPRZ17].

electro-thermal [HGN17a, HGN17b].

electrocardiography [CGM15].

electrocardiography [PFV15].

electrodes [MTD15].

electrodynamics [BAGK16, DPO16].

electrohydrodynamics [NCP+17].

electrohydrodynamic [HLY15, HLY16, JGS16, TND18].

electrohydrodynamics [Vee16].

electrokinetic [MXL16, PKP+17].

electrolytes [GBW+15].

Electromagnetic

[HLCL19, AJP15, ACC+15, BAGK16, BGV17, CC16a, CC17c, CLFL17, DZR18, DC18a, DK18a, DK18b, DDV+15, FCL17, GHJ15, GKE15, HN18,
Ism15, KS18a, KPJ18, LGO17, MHZ+15, NOM+17, PLL15b, ST16, SUR18, SF18a, SCS16, SLVE18, SCC19, SSL+16b, Tao16, TSN16, TRL15, TBLM15, UWH17, VCNOP18, XB18, ZWUR16. electromagnetics [AM17a, LH16]. electromagnetism [BAGK16].

electron [ALM15, BTA17, CHE+17, HMRG16, Ido16, JL18a, KKS15, KKS16, KB18, LIVF+15, LY15c, MP16, SCC19, VBG+15, WSH19, YCBC15].

electron-electron [BTA17, HMRG16].

Electrical [AM17a, LH16]. electromagnetism [BAGK16].

Electromagnetic [CSCM16, LHS+18, MRZG16, NOM+17, PdD+17, PD16b, RO16].

Electromechanics [ANL+16].

Electron [ALM15, BTA17, CHE+17, HMRG16, Ido16, JL18a, KKS15, KKS16, KB18, LLVF+15, LY15c, MP16, SCC19, VBG+15, WSH19, YCBC15].

Electron-electron [BTA17, HMRG16].

Electronic [CSCM16, LHS+18, MRZG16, NOM+17, PDdG+17, PD16b, RO16].

Electrons [CKK18b, KM16a].

Electropermeabilization [GPG17, LPW15].

Electrophysiology [CGG18].

Electrostatics [BCO+15, DS16, XJ16, YX15].

Element [CEH16, GFG+15, GBS15, SCS16, SMAG17, TBL+18, TBLJ15, AM17a, ABG+15, AVT17, ADFG17, AB18, ASS13, ASS17, Alm19, AAD16, ADK+17, BJRF18, BCD+15, BCO+15, BBKS16, BHL15, BXY17, BJWZ17, BGN15, BGN19, BBF+17, BK17c, BC18b, BKO18, BBO+16, BSM16, BTWY15, BKB15, BFTVC18, CZW17, CCHL15, CFW16, CHT17, CDE17, CLG18, CL16, CJD+17, CH17, CWW17, COV18, CEL15, CELZ18, CEL18a, CMH15, CLFL17, DSH+16, DGMT17, Did17, EKEB16, FBM16, GM19, GFC18, G19, GG15, GBD17, GDA16, GY17, GSMR18, HR18a, HWH+16, HS17a, HTFL17, HdBH+16, HLL+16, HR17, HMFJ18, HHLY17, IXX18, HS17, JTR16, JL15, JLLZ15, JTD16, Jou15, KC17a, KDF15, KE15, KG15, LP18, LTKA15, LMC16, LZ17a, LPR18, LGH+18, LY18, LTXB17, LTW18, LYPP17, LWC17, MML17, MR17, Mel18, MDM15, MP16].

Element-based [HMFJ18, JTD16, KG15].

Element-wise [MN16c].

Elementary [KD17b].

Elements [CV15, CHD+18, Dodi17, HR18b, JG15, LHM16, LPG18, LKSM17, MG15b, MT17, MMW15, OKE17, Pas16, RGW16, RSB16, SGP+17, SM16, SFP16, VAB15, ZS16, ZILZ15].

Elevation [MM18].

ELF [Chu17].

Ellipsoidal [SK19a].

Ellipsoids [PGCG18].

Elliptic [AG19, AR16b, BFBB17, LL17, CWW17, CELZ18, CR18, CFF18, EJMI18, FSSW17, FPDT17, GLT15, GY17, GY18, HLL15b, HHLY17, HS17, KKL15, KCW17, LMMS16, MWY16, OKE17, PHHR17, SR16, SD16, Vab15, VCNPG15, WTGC16, WHE17, ZILZ15, ZHW18].

Embedded [CM16b, MR18, vLtTBI17, AMS17, BKO18, Cho15, DD16b, HC18, HDF18, KIBJ16, KP15b, MS18a, MS18b, MA17, NPC15, PBKK17, RS18, SVO18, Vis18, YSC+17, YZN+17, YX15, ZS16, ZS15, ZL15a, ZGG16, ZHLZ18, ZZYC19, ZBZT17, DJV+18].

element-based [HMFJ18, JTD16, KG15].

Element-integral [BK018].

Element-wise [MN16c].

Elementary [KD17b].

Elements [CV15, CHD+18, Dodi17, HR18b, JG15, LHM16, LPG18, LKSM17, MG15b, MT17, MMW15, OKE17, Pas16, RGW16, RSB16, SGP+17, SM16, SFP16, VAB15, ZS16, ZILZ15].

Elevation [MM18].

ELF [Chu17].

Ellipsoidal [SK19a].

Ellipsoids [PGCG18].

Elliptic [AG19, AR16b, BFBB17, LL17, CWW17, CELZ18, CR18, CFF18, EJMI18, FSSW17, FPDT17, GLT15, GY17, GY18, HLL15b, HHLY17, HS17, KKL15, KCW17, LMMS16, MWY16, OKE17, PHHR17, SR16, SD16, Vab15, VCNPG15, WTGC16, WHE17, ZILZ15, ZHW18].

Embedded [CM16b, MR18, vLtTBI17, AMS17, BKO18, Cho15, DD16b, HC18, HDF18, KIBJ16, KP15b, MS18a, MS18b, MA17, NPC15, PBKK17, RS18, SVO18, Vis18, YSC+17, YZN+17, YX15, ZS16, ZS15, ZL15a, ZGG16, ZHLZ18, ZZYC19, ZBZT17, DJV+18].
TAH16, WBM15a, BM15]. embedding [KYKS19]. emergent [BWR15].
emission [AP16]. emphasis [KS16a]. Empirical
dpSS16, ABdC+18, NMA15, YZW+18. Emulation
LBTCG16, MRA16, XTS+16. emulator [ZKS+15]. enabled [KMD+18].
Enabling [YXD+16]. encoder [ZZ18]. encoder-decoder [ZZ18].
endocytosis [LA16]. energetic [AMA18, CSY15].
energetic-particle-magnetohydrodynamics [AMA18]. Energetically
[MXL16]. energies [BJWZ17]. Energy
[BC18b, BCJL17, CCBL15, CGS18, CCZ15, CG18b, LCF16, MRX17,
MMP18, NMM15, OLDN17, OKWE17, RKH15, SL16c, AK17, AJW17,
BC18a, Bra16a, BMC+18b, CBZ18, CCCL15, CCRdL17, CJYZ15, CS16c,
CLS+18, CLL17, CEL18a, CVG18, Don15a, DS15c, FPASS16, FG17, G19,
GZ18, GHL+16, GGT18, GX15, HP16, HJZC17, HSL15, HW15b, JLF17,
KTK18, LMH16, Lap17, LM18, LW15b, LSS16, LL15+15, LW17e, MKS18,
MDMS18, MGCL18, NMM16, NMM17, NN15a, PG17, PS14, PS15a,
PM1+15, RS16, SY15, SL15, SD16, St17, Suz18, TC15a, TKC15,
TCSM15, Tav15, Tav16, TTH17a, TKP16, V18W, VCE19, V16, WH15,
WJD16, WW18, WCL15, Yan16b, Y17H, YZW17, YCS+17, ZYS16, ZN16].
energy-[Suz18]. energy-balanced [PME+15]. Energy-based
[CGS18, MKS18, YCS+17]. energy-conservation [CCRdL17].
Energy-conserving [CCZ15, G19, HJZC17]. energy-preserving
[CB18z, CCCL15, LW15b, WW18]. energy-stable
[Don15a, DS15c, LM18, MDMS18]. energy-transport [HW15b].
Energy/dissipation [SL16c]. Energy/dissipation-preserving [SL16c].
enforced [WSY16]. enforcement [LHGF16]. Enforcing [GSK18, MN16c].
engulfment [TY16]. enhanced [BHMS18, GNZ18, i17, M17A, ZAF17,
MM18, M18H, PHD16, SW18b, XR17, XM18]. Enhancement
[EST17, FL18, BTD16]. Enhancements [SP16b]. enhances [CSCM16].
Enhancing [CSN18, FBW16, JW15a, J15S, YL16B]. ENO
[Sid18, FBA16, FBA17b, FBA18, IDSG15, LJ16]. ENO/WENO [Sid18].
Enriched [LW18, VSDW18, LW17a, SA15]. enrichment [KW16].
Ensemble [RMK15, BJOL18, ZH15]. Ensemble-type [RMK15]. Enskog
[SG19, WZR15]. entrophy [BC18b, PG17, SL15, SD16]. enthalpy
[HW15c, HW16c]. enthalpy-based [HW15c, HW16c]. entropic [DCBK15].
Entropy [AKM+19, CS17a, CH18, DRM15, LSZ18, Li15, PC15a,
PC15b, ST18, Ab18, AS15, Bra16b, Cha18, CW19, CJD+17, CHS17,
DWG16, DWG17, DWG+18, DB18, GMLD18, GHH15, IC17, KTK18,
LW17a, LCF16, LS16, ML17, Opp17, SB17, SW17a, SY18b, WWG17,
WWG18, W15G, WDG16, WDGW17, YC17, BC16b]. Entropy-based
[DRM15, AS15, GHH15, SB17]. Entropy-bounded [Li15].
entropy-residual [LS16]. entropy-satisfying [CH17]. Entropy-stable
[CH18, DWG17, IC17, ML17]. entropy-variables-based [GMLD18].
Environment [TCS+16b]. EOS [FSB16, DLPA19, RVK+18].
EoS-independent [DLP19]. EPIRK [RT16]. epitaxial [YZW17]. epitaxy
[Xia15]. **epsilon** [Lot18]. **Equation** [ACGR15, AMN18, AAE17, AAE19, Ali15, ASS13, ASS17, AMP16, ABFR16, An17, And16, ADK17, ABH18, AHKT17, Ata15, ALTR17, ADOP18, BJRF18, BM15, BK17b, BJTZ15, BHL15, BLA+15, BNM15, BBF+17, BK19b, BK018, BDK+17, BIR18, BP18, BNS17, BH18, BWR15, BBKS18, BCM15a, BGGM15, BR17, BTT18, CQQ16, CH17, CCZ17, Cha16, CCZC16, CLC16, CLM18b, CD17, CHCC18, CMH15, CVG18, CV16b, CGRV17, CV18, CLMZ17, Cu15, CHLZ17, DD16a, DvB17, DLNR18, DS15d, DLL+17, DJLQ18, DY19, DBMB15, DKK15, EG17, EO15, EAA15, EG16, EMSS17, FS16, FQZN18, FGLB16, FLT17, FYC+18, FSM16, GR18, GMP16, GM15, GMS16, GBD+15, GN16, GD19, GWWC17, GHL15, GL17, HW15a, HR18b, HB16, HW16a, Her16, Hiv18, HML17, HSC16, HF18, HW15b, HJ16, HXX18, HXB15, HHY15, HMRG16].

equation [IZ18, IKS19, JAH19, JW15c, JL16, JLL15, JJ17, KS16a, KMDB16, KTN15, KKS15, KKS16, KJY17, KL17b, KDL15, KL15, KS18b, LFRH17, LSL15, LAL18, LT15a, LJ15, LW18, ILL16, LZ17b, LSP+18, LDW15, LY16b, LK16a, LT18, LYL16, LY16a, LM15d, LQB16, LP17a, LP17b, MKYZ17, MK17, MS15c, M215, MT16, MR17, MS17, MS18d, MM17, MG18, NH17, NRP15, OT15, OL16, OWE16, PKF16, PA19, PKJ+18, PL16b, PS14, PS15a, PLL15b, PDRB17, Pu15, PS17, PV18, PC19, RB18, Rag15, RMS16, ST18a, SS17a, STEK17, SM16, SLR+16, Sw16, SL15, SK15a, SL16, SL16a, SWK18, Sm18, ST18c, SH18, SWP15, St16, SWL19, SWZ19, SV17, SK15b, SLZ+17, TCS15, TK15a, Tav16, TSH17, Ter18, TGY18, TBO+16, TCI15, Tou18, TH16, Ts1a5, Ts16a, Vab15, Vab18].
equation-based [OC18]. **Equations** [HO15, NMM18, AG16, AD15, AR16a, AD17, ALKZ16, AS15, AJW17, ABH18, ABH+19, AD17, ATZ16, ABR16, ALL18, ABG18c, AEA15, AB17, BJO18, BTD16, BK19a, BHZ18, BV15, BGN19, BK17c, BC18b, BEG15, BC15, BP18, BDM15, Ba15, BZ15, BBDE15, BL15a, BT15b, BG19b, BC17, BW15, BHG18, BPD19, BH15, BC16c, BTWY15, BT15, BTV16, CZ17, CBZ18, Cap18, CGS18, CRW16, CW16, CAA18, CHX15, CCZC16, CT16, CHZ16, CS16b, CHY16, CLZ18, CYL+16, CYYL18, CD17, CCK+18, CCKQ15, CV16, CFST16, CG19, CE17, Chun17, CRZ17, CCM17, CLP16b, CHD+18, CE15, DA17, Del15, DWG+18, DG16b, DKK+18, DGL+15, DMSC16, Du18, DY19, DMT15, ETAG15, EDK19, EHFZ17, Fal16, FKF17, FWK17, FSWW17, FX18, FBW16, FP16, FLV18, FRV16, GSN16, GSI15b, GSI15a, hGwSzS15].
equations [GS15a, GKW16, GP16a, GBM16, GCVMK15, GO16, Gao17, GNK18b, GT18, GLK19, GHL+16, GP16b, GTG15, GY15, GXX17, GLW18,
HPY18, HE15, HSM19, HKLZ18, HdBH^{+16}, HBR15, HHCG15, HJZC17, HTMP17, HY16, HY15, HZ15, HHY16, HS18b, HLCL19, HSF17, Ism15, JLQX15, JPSX18, JW15b, JW16, JX15, JZ16, JX17, JL18c, JXZ15, JL17c, JFS17, Kay15, KNS15, KA15, KÁGR18, KR17, KL18a, LPWK15, LM18, LP18, Ler15, LLS15, LZ15a, LXC^{+15}, LYC16, LX16, LDL^{+16}, LT17a, LZ17a, LGH^{+18}, LX18, LL16c, ILNS17, LP16b, LXSC16, LIW17d, LIW18, LY19, LLLN18, LHL15, LFT^{+16}, LHQ16, LI15, MMNI16, MD17, MD18, MM16b, MS18b, MLM18, MG18, MS16a, MG15b, MR16a, MA17, MKC17, MH18a, MPFL16, MDBCF17, MS18c, MBKKTH17, MDDM17, MHS16, Moh15, MMP18, MFB18, MTK^{+16}, MDAB18, MBM^{+15}, MN16c].

equations [MTBT18, MN18c, NMM15, NLFM16, NBH18, NN19, NW15, NN16, OS15a, Opp17, OvdHVH16, PG17, PXLL16, PCF15, PPCK17, PP19, PJC16, PCN15a, PCN15b, PS16, PTT18, PE16b, PND16, PE15, PDRB17, PBBK15, PMBI8, Pop15, QHZ^{+15}, QDH15, RMA17, RPK17a, RPK17b, RK18, RPK19, RMP18, RDM15, RJ19, SKP^{+15}, SP18, SS18a, SP15a, Sch16a, Sch16b, SWG^{+17}, SZ15a, SR16, SMS16, SF18b, SY16, SLB^{+16}, SGC18b, SLY16, SYM15, SYM17, SS18b, SO17, SPP16b, SKW19, SX15, SE16, SPZ18, SD16, Stū15, SL16b, SC18b, SL16c, Sub15, SJX15, SJXL15, SJH^{+15}, SJX17, ECS18, Svā15, TW17, TY17, TD16a, TD17, TP17, TC15b, TXKvdV15, TXKvdV16, TST17, TT16, TCL15, TC15c, TO15, TMH18, UL16, VST16, VZG18, VS17, VCNGP15, WN18, WY17, WW15, WR15].

equations [WH15, WZ15, WXW15, WRL16b, WTGC16, WHY17, WCL15, WR16, WWGK17, WWGW18, WG15, WG16b, WB15^{+1b}, W17, WZ18b, XDSX17, XY18, XHC15, XL16, YC17, YJ17, YHQ15, YYN^{+17}, YHKP17, Yi18, YLL19, YTW15, YWHP15, ZZK16, ZA15a, ZSP15, Zha17c, ZHS18, ZLFW18, ZED15, ZJ16, ZQ16a, ZSQ17, vOMB17, NMM17, PMF^{+18}]. equatorially [iI17]. equidistant [WWR17]. equilibrated [GHP15]. equilibrium-preserving [TCS17].
equilibria [HR17]. equilibrium [AHHC18, BJ15, BWR15, CwYjS16, DRM15, FH17, GMLD18, HFM17, HKKP16, IK15, MPP15, RG15, STR15, TCS17, TZ16, WG16a, WMS18, YHQ15], equilibrium-preserving [TCS17]. equilibriums [NF17]. equipped [ZYK18]. Equivalence [ZN16, ACCCD^{+17}]. equivalent [BM19b, KE15]. ERENA [MTK^{+16}].

Ericksen [NWZ18]. ERKN [MIW^{1b}]. erodible [LMKS15]. erosion [MS17, HQ18]. erroneous [NN17]. Error [Kr17, PDRB17, RS17, AMK17, AGRB18, AR16b, BAD19, BH16b, CI17, CNOS15, DZC16, FC16, GWE^{+15}, HFND18, Hwa16, JW15a, KKB16, LKN17, MM15, OKWE16, RL17, SD17, SW15, TS17, VLAB18, WK18, WA18, YY16, ZH15]. errors [ÁAPB17, Dav10, Dav15, HDA^{+18}, Iwa15, LM16, LZL^{+17}, RRMF^{+19}, SYZ16]. esophageal [KBG^{+15}, KGP^{+17}]. essentially [HWA15, LJ16, MWB^{+15a}, ZPW18, ZQ17] estimate [BAD19]. estimates [DZC16, IM15, JW15a, JES15, YY16]. Estimating [SYZ16, TR17, WLK^{+16}, STR15]. Estimation [CLZZ19, Edw17, AMK17, AGRB18, BLL19, Cha16, CN16, EH14, EH15, FAZ16, GP16b, ISP^{+15}, KM17, KRFV16, PKW17, RFGSV15, RL17, SW15,
TT17a, TS17, WN17, XS15, ZH15, dFGS+17. estimator [Opp17, Swe18]. estimators [LB17, OKWE17]. Euler [AG16, BLL19, Bar15, BLMY17, CBC+18, CCK+18, CGS15, CHD+18, DLMVDV18, DKG+18, GWK16, GLK19, GP16b, HY16, ID17, JPSX18, JL18c, Ler15, Ler16, LXL18, LI15, MS15b, MH18a, MMP18, MDAB18, MMAPS17, PXLL16, PS16, PDRB17, PZF16, TCL15, VGY18, WW15, WR15, WRL16b, WDGW17, XDSX17, ZLFW18, vOMB17]. Eulerian [LB16a, ALA16, BMRI+16, BS15b, BL15, BD17, CBB16, DL15, DB16a, FRW16, GSL18, ISST18, LS16c, MC18, MWB+15b, PR16a, RW15a, RSB15, SDM+17].
tueptic [DMS17]. Evaluation [BAVC17, DB16a, SDJU15, SGC+17, SGC+18a, AW18, Brec18, CCK18a, KKL15, MDT16, OCS18, PAFT19, RCRF16, RSD17, RSSSE18, SY17, ST18b, ZSM19, ZGW17, ZPE+16]. evaporating [DM17a, Did17]. evaporating [IM17a, PS14, PS15a, SLC+18, VALT16]. even [WKOE17]. even-parity [WKOE17]. event [Hig17, KBK15a, SGL17].

events [CL17, GH17b, MCS16, SPB16]. evolution [BGN19, BMRA+15, GSN17, LP16b, OB17, Pis18, UG16, ZXL17].

Evolutionary [STHW17, MJH15, SWS+18, WS16]. evolving [CRW16, FBF15, MMN16, MW17b, SS16a]. Ewald [GKE15, NPP15, ST17, WB16]. Exact [SFP16, BJ16, Del15, HY16, KAR17, MDVM16, MMW15, PBC+17, PA15, SY17, SL16b, BPTA16]. Exactly [Lap17, Cac15a, Cac15b, NMM16].


excursions [MD16]. exhibiting [MDP18]. Existence [PJC16, HBR15].

existing [vLtTBI17]. exit [LM15c]. expanding [And16]. expansion [AAP17, CSY15, GRMK15, GP16c, LQB16, PHD16, RMLvR18, ST18b, YYL16, ZM16b, aKT16, RKO17a, WK18]. expansions [ARG+17, ATM+18, AZ16, AM18, CN16, For16, GNZ18, HD15, JES15, KKL15, KSV+15, KS16b, LLEK17, LMTC15, NS16, RKO17a, SS17b, VAD17, YLBL16].

expensive [PKW17]. experiment [MRP+15]. Experimental [SHP+16, CC16b, KL17a, NP16, NKN+17, RL17, WLL16]. Experiments [FBW16]. Explicit [BBBG15, BJ16, CCRdL17, CJD+17, SST+15, Tao16, Tie18, CB15, Che18, CKQT15, CGJ19, CDV17, DLMVDV18, EMSS17, KA15, KFWK17, LH17a, MVK16, MAM16, NYNYM15, NWKC16, PG17, RS15a, Ric15, SL18a, SC18a, Tie16, YSW15, dSPDH15]. explicitly [GSK18].

Exploiting [CELI15]. Exploring [BMT16]. explosives [MN16b, RA17]. Exponential [GDA16, WBM15a, AMP16, Cui15, ET17, GP16a, GRT18, HS18b, Ike18, LLWJ18, LTR17, MW17a, SWZ17, WJD16, ZSP15].

exponents [MSB+16]. expression [AHHC18, LB17]. expressions [FS15].

Extended [BQCG17, RO17, Tso18, AMB17, BM+18b, CPT16, CS16a, Fan19, GG15, Guo15, HZ17, JH15, PXZ15, PCX17, RWG18, SL16a, PMF+18].
Extending [LYZ15, LY15b, MLMM17]. Extension [GHJ15, PxRS17, SG17, WRL16b, WMS18, WYA+17a, ZLL16a, ZLL17a, ATC17, ABT16, FG16, FLT18, MN15, NMM18, SW16, SO16, SG16, SII16, SII17, VNA15].

extensions [LYPP17]. extent [CK16a]. exterior [ESGS17, LC17b, MHS16, NBT19, SP18].

extrapolated [MLMM17, ZJ18]. Extrapolation [MVK16, EMSS17, FBF15]. Extrapolation-based [LH17a, SLH18, ABFR16, HK18a, LWY18, PP17].


factor [HG17, HDF18, JZSX18, YC17]. fat [NN15]. fatigue [CF15].

fault [FFJT16, LKK17a]. fault-resilient [LKK17a]. faults [DD16b].

Fictitious [IML15, ZLY15, HXLL15, HGW18, LHY+19, PR16a]. fidelity [AA16, DIX+18, HFND18, LK17b, LSWF16, MS16b, MS15c, MW16a, PP17, PP17b, PKW17, RPK17a, RKN19, RS17, UG16, VBF15, ZYK18, ZLX17]. Field [SRS19, ARF18, ATM+18, ADFG17, AAE17, AAE19, BJK17].
BGJ+15, BDPM18, BG16b, CLW18, CWF16, CC15, CS16a, CJYZ15, CS16c, CKQT15, CYS17, CLM21, DWG+18, ESGS17, Fed17, FCL17, GHL+16, GGT18, Guo15, GWF16, HLC19, JTR16, JJ18a, JJ18b, KJP18, LSL15, LW15a, LBZ16, LWZ16, LDL+16, LWY17, LY16c, LBB+17, MA18, OTS17, OLD+16, OL8+17, PPC17, PMS15, PD16a, PKB15, RTO15, SYY15, SLL16, SAOW17, TW17, TK15a, TSST16, VSM17, VS17, WJD16, Wic16, WCC16, WHZ18, XCY17, XL16, XZT18, Yan16b, YH17, YY17, Zau16, ZW16, ZZ17a, ZHL18, ZYSW16, ZYC15] fields [BAGK16, BMC18b, KBR17, LE16, LX16, MLMM17, PVPK17, RRM+16, RSD17, SAF+19, Tao16, TG17, XTS+16, XY17, YG18, ZFPB16]. fifth [CTG16, WLGD18, ZQ16b]. fifth-order [CTG16]. Filament [JSS15]. filamentation [VK18]. filled [DSH16, SAH17]. film [JS16, KHP17, Pes15, Xia15]. films [AASRT17, JTR16, LVB+15]. Filtered [OS15a, LMH16, MM16b, ZN16]. Filtering [GO15, ALMJ15, BW18b, BJ16, EMM+18, Fal15, FB16, MG17, MP17, NYNYM15, SD18]. filters [Fal15, Fal17, HHR15, LAK+16, SKO17, VPTS16, ZH15]. filtration [VK18]. finding [BSWG15, SPM+15]. fine [CGS15, KGT15, LF16]. fine-grid [KGT15]. fingering [BST+18]. Finite [AGBL15, Alm19, AM+15, BGN19, BTWY15, CLC16, CEH16, DG18, DSH+16, DJV+18, EN18, FPT17, GFG15, GBA15, Gri19, GSS15b, GMR18, HK19, IQ15, Kay15, KS15a, LT15, LY16, LPP17, MML17, MLD16, Mas18, MHZ+15, NBT19, RG15, SKO17, SY17, SP16c, TVB+16, TRL18, YYN+17, ZSQ17, vUKd16, AM17a, ABG+15, AVT17, ADGFG17, AD17, ASS13, ASS17, AAD16, ABFR16, ADK+17, ABT16, AM17b, BFR18, BCD+15, BD15a, BBKS16, BHL15, BJ16, BGN15, BK17c, Cat17, BC18b, BKO18, BGV17, BV17, BH18, BMY17, BLD15, BDZ15, BD17, BLM18, BHT17, Bra16a, Bre17, BKB15, BFTVC18, CCL15, CBS18, CS15, CWF16, CHT17, CCZ18, C16, Che18, CO18, Chol15, CDX18b, CEL15, CEL18, CEL18a, CMH15, CGP16, CR18, CPS17, CH17, CCM17, CYW17, DGM17, Did17, DL17]. finite [DMS17, DHD+18, DVP+16, DL16, DwWZ18, FAZ16, FS18, F17, FB16, GM19, GSS15a, GH17a, GFC18, GK19, GOR17, GD+16, GS16, GG15, GB17, GHL15, GLK19, GHL+16, GDA16, GY17, GL17, HR18a, HWH+16, HR18b, HS17a, HDBH+16, HZL+15, HLL+16, HR17, Heu17, HM18, HLY17, HY16, Huy17, HXX17, HAH16, Ism15, IDG15, J16, JW15b, JW15c, JW16, JZ15, JG15, Jou15, KKH18, KDF15, KW15a, KW15b, KE15, KJ17, KL17b, KP18, Kla15, KS17, LH16, LM16, LL+16, LY15a, LN17, LAL18, LX16, LL16, LMH16, LMC16, LZ17a, LGH+18, LLY18, LW18, LY15b, LZ17b, LM16, LTB16b, LJ16, LT18, LK17, LWC17, MF17, MN04, MN17, MDH15, MR17, MT17, Mel18, MH18a, MM18, MK18b, M16, M16c, MF16a, MBL18, MWY16, MN16c, MW15, NH17, NJH18, NS19, NN15a, Nis15]. finite [NF17, Nor15, OLDN17, OP17, PxRS17, PC17, PL16a, PL18, PH+16, ...
PS16, Pei16, PS15b, PWP15, PS17, RBI18, Rag15, RG15, RGW16, RMBN18, Ramb15, RRD15, RWD17, RWN18, RBL16, SNSG16, SPX+18, SDMS17, SGL18, SAEF17, SWG+17, SM16, Sha17b, SF18b, SY16, SGC18b, SY18a, SYL16, SYM17, SW18b, SYV14, SDH+16, SKG17, SA15, SBH19, SFDE15, SSO+15, SZ16, SDA16, SZ17, SS16c, SP15b, SDW18, SK18, Sub18, TLH15, TD18, TMT17, TC15b, TBO+16, TKP16, Tso18, URL16, VSDW18, VKE18, VSC18, WR15, WDS15, WRL16a, WRL16b, WRPL17, WYZ18, WLG18, WLX+18, WT15, WSF17, WA18, WHZ18, XWL+16, XDvW17, XZ15, XX16, XI16, XDS17, XMI18, YG18, YSC+17, YYL16, YHQ15, YP17, YX15, YM15, ZCHS15, ZS15, ZILZ15, ZGJ16, ZZZ17, ZG18a, ZHLZ18, ZSL+19, ZBZT17.

finite [ZQ16b, ZQ17, ZXDL17, dFJN16, CJ17]. Finite-Difference [SYV17, Bra16c, Bre17, CR18, CYWL17, GH17a, GS16, KPJ18, LH16, LHM16, LWY18, NF17, RBI18, SYV14, TLH15, WA18, YYL16].

Finite-Element [FG15, AVT17, AAD16, CHT17, GFC18, JTR16, SFDE15]. finite-element-based [CMH15]. finite-elements [SM16]. Finite-Volume [DG18, IGQ15, TVB+16, vEKdB16, CCS18, CDX18b, DDH+18, GOR17, GDS+16, IDSG15, KS17, LLD+16, LN17, LL16b, LZ17b, MDHC15, Nis15, Nor15, PS16, SDH+16, SKG17, TMT17, Tso18, VSC18, XDvW17, ZSL+19, CJ17]. finite-volume-based [SBH19]. Finite-volume-concept-based [SKO17]. finite-volume/Monte [GDS+16]. First [CC15, LSL15, SLL16, ALK16, AZK16, Cac15a, Cac15b, DBZ17, DPRZ16, DPRZ17, DKK15, Hiv18, LWY18, LM15c, LLLN18, MA17, MN16a, MRN16, OWKE16, PTMF18, Roy15, SM16, VSM16a, VSM16b, VLN+18, WTX17, Yan16b, YH17]. first-order [Cac15a, Cac15b, YH17]. fitted [BOA17, CZBC+18, CWW17, DSH+16, RA17, WW18, ZJ18, ZSZ17]. fitting [LT17b, ZXDL17]. FitzHugh [LZT+15]. five [RP19, TY18]. five-equation [TY18]. five-equations [RP19]. FIVER [MZA17]. fixed [DG18, IKI15, RZ15, SY17]. flame [KP15b, LSL+17]. flames [SWS+18]. flash [WKSS15]. flat [KJYC17, KMGR16, WF17]. flexibility [II15]. flexible [BS15, BPGS16, DG18, DCP15, FKR16, GLS15, JSP16, Mool17, NRZS17, SWG+17]. flexible-wing [Mool17]. Flexibly [YS18a]. flexural [MDW18]. flexural-gravity [MDW18]. floating [CGSS18, LC17a]. flowering [DD17a]. Flow [BP17, KLA17, YDCK16, ABO17, AASRT17, ABG+15, APR+15, APP+16, AA16, AVP+18, AS17, AMS17, BCSK17, BZ19, BCST17, BB17, BBK16, BHST17a, BHST17b, BHST18, BGN15, BAD19, BLVC16, BLVC17, BPS16, BLK15, BAVC17, BLS+16, BLJ17, Bon17, BCB17, BHP18, B16c, BB15, BKG15, BKKB15, BKKR16, CB18a, CCRdL17, CC15, CX15, C17, CV16a, CS16b, CRR17, CV18, CM18d, CLNH15, CvK16, CvKH18, DM17a, DGW18, DM16, DWR18, MD18, DGMT17, DB16a, DL16a, EGS17, EST17, EN17, Fan16, FMRZ17, FST15, FW17, FSB16,
GZM$^{+17}$, GPAO$^{+18}$, GPS17b, GSL18, GDFL17, GFL17, GGL$^{+17}$, GO16, GCCVCH18, HXLL15, HTFL18, HSK$^{+15}$, HG17, HGW18, HKH$^{+16}$, HW16b, HDF18, HY17, IPSG15, ION$^{+17}$, JSP16, JSVD17, JL16, JT18, JD19, KD17a, KHP17, KA18, KJ17a, KEJ18, KH17, Kla15]. flow

[KF17, KS16c, KS18b, KW16, KFWK17, KRK$^{+18}$, KJ17b, KS16d, LVb$^{+15}$, LE16, LRA17, LW18, LH15, LGPT16, LHB$^{+16}$, LZb$^{+17}$, LLFX18, LLY18, LZT17, LKN17, LNM15, LAA16, LRG018, MZAF17, MNG15a, MCN18, MTZ16, MX18, MI19, MHL17, MN18b, MS17, MDP$^{+15}$, MTJ17, MF16a, MB15, MLB16, MM16d, NL15, Noe15, NSK$^{+16}$, NSL16, OT15, OSP17, PZNG15, PGG18, PHO$^{+16}$, PT18, PLW16, PGGW18, PZF16, PME$^{+15}$, QYF15, QLFL16, RZB15, RW15a, RXS15,Rua18, RPC$^{+18}$, SK19a, SPX$^{+18}$, Say17a, Sha17a, SRBB18, SLL17, SCJ$^{+18}$, STG17, SPW18, SHW17, Str17, SK18, SWL19, SKC17, SCS18, SZC18, TH18, TP16a, TL115, TWH15, TAH16, TLLF15, TT16, TD16b, TSST16, VCEK19, VV17, Vos17, Vre17, WWR16, WYLX17, WSN$^{+18}$, WB15, WC18, WCF16, WKS15, XC17, XHR1, YYY$^{+16}$, YSY17, YNW17]. flow

[YR15, YM17b, YTW15, YZZ15, Zad11, ZP16, ZLY15, ZW15, ZV16, ZW16, ZZ$^{+17}$, ZZ17b, ZZX17, ZRE16, aKT16, dFJN16, dMRHJ17, dPSS16, tEDKT17]. flow-field

[TSST16]. flow-transport [BKRB15]. flowing

[ZZDB15]. flows [ACGR15, AMB17, ALO18, AB15, AEvW19, Bal15, BMR$^{+16}$, BJ15, BFI$^{+18}$, BC16a, BM19a, BS15a, BMV17b, BMT18, BDFM18, BFTVC18, Cai16, CV17, CBS18, CGS18, CFSN18, CGK17, CL16, CJJ$^{+17}$, CZL$^{+15}$, CX16, CHJT17, CZL18, CS18b, CLG$^{+19}$, CD17, CCGS15, CEL$^{+18}$b, CC16c, CLGA17, CG18b, CPS17, CG16, CM16b, DG18, DLM18, DIX$^{+18}$, DXvW18, DY16, DAO17, Don15a, DS15c, Don17, Don18, DVP$^{+16}$, ESHA16, EJMI18, FGL16, FBL17, FW1K8, FNG16, FPDT17, FMPT18, Fid17, FBM16, FG19, GM16, GOR17, GHR17, G1F16, Ger17, GWC17, GG15, GBCF16, GZH19, GJ15, GRS15, GEZ16, GA18, GWYS18, GAS$^{+18}$, GSS15b, HHA15, HFM17, HL15a, HEG15, HZL$^{+15}$, HTZG17, HP17, HS16, HM16b, HTMP17, HW18, HTBG15, IGQ15, JS17, JLC18, JG15, JJJ18]. flows

[KKH18, KYUO15, KTN15, KP15a, KLNH17, KCS$^{+17}$, KF17, KP15c, KYYW$^{+16}$, KYW$^{+18}$, KL18b, KV16, KS15b, KTK18, LMP15, LS15a, LVTR15, LP15b, LFDP16, LL16b, LW17b, LPR1, LLW18, LSD$^{+17}$, LSR16, LC16, LC17b, LD16, LMKS15, LW$^{+16}$, LXSC16, LH17b, LH18, LD15, LZW$^{+17}$, LHA15b, LHA16b, LWTF19, LEB$^{+17}$, LLI17, MM16a, MNG15a, MDM16, MOA15, MTZ16, MA19, MC15, MP17, MRK15, MRX17, MCGS16, MD15, MF16b, MLM18, MA16, MSB$^{+16}$, MR16b, MM18, NdLPCC19, NDCB17, OVP15, OSK18, ÓPHA18, OD17, PKP$^{+17}$, PN18, PHHA18, PL16a, PL18, PSS17, PSB$^{+18}$, PM16, PPLC16, PW18, PW18, PN17, PN18, PGM17, PLW16, PF16, PEVG18, DM18, PCBG18, PWP15, QB18, RS16b, RDG17, RV16, RMF$^{+18}$, Ric15, RZ15, SXBB15, SW17, SPD$^{+17}$, SP15a, SGMS16, SHA16, SL17, SKF15, SWML17, SVG18, SAK18]. flows [SWMD17a, SWMD17b, SXY18, STW16, SDM$^{+17}$, SY18b, SDH$^{+16}$,
SKG17, SSA17, SMSR18, SGT17, SST+15, SGP17b, Suz18, TZWG18, TK12, TK15b, TND18, TBO+16, Tou18, TMH18, TKP16, TABR17, UG16, VPM15, VSM16a, VSM16b, VALT16, WDG+17, WSY15, WSS+15, WSHT15, WSY16, WSP17, WCH+17, WZ18a, WKPS18, WSN+15, WMS18, WGME17, WL17, XWL+16, XDrW17, XX16, XM1117, XSL18, XWZ+18, XS19, YS18b, YSW15, YWS16, YXF+16, YSWW16, YGEM17, YD18, YL16, YCS+17, ZBH18, ZMF15, ZMCC18, ZLC18, ZLGS18, ZWG17, dFVJ15, dLGT17].

fluctuating [BRK+18, DSH+16, HM17, SC18a, dSPDH15].

fluence [Swe18].

Fluid [AAL15, CGSS18, FB15, HWK19, HM17, JBLO15, LVTR15, LGD17, RW15b, SAK18, SDM+17, VALT16, ABI17, ABG+15, AA16, Ama15, Ama18, AB15, BAGK16, BHKS16, BQCG17, BZ16b, BCM15b, Buk16, CGS18, CZBC+18, CM16a, CDM18, CH17, CV16a, CLGA17, CSH15, CLM15, CM16b, CYWL17, DG16a, DG18, DFGQ16, Dom18, EST17, EKSS15, ED16, ELH+16, FW18, FLV15, FG19, FRW16, FHA16, GLT18, GSS18, GCVCHH18, HXLL15, Har18, HSK+15, HM16a, HDF18, ISST18, IM17b, JSVD17, JBM19, JH15, JS17, KB18, KLC18, KE17, KC17c, KRR+18, KM15, LTBl6a, LLd+16, LC15, LFR17, LGB17, LFDP16, LW17b, LLJJ18, LSD+17, LHY+19, LY16c, LDGH16, LMI17, MAK15, MOA15, MAM16, MPR+18, MC15, MT18, MMMS15, MTK17, MRXI17, MAA18, MM17, MKV+17, NFG15, NPC15, Niu16, NF17, NSK+16, NLW+16, PSS17].

fluid [PHÖ+16, PN18, PR16b, PAL+16, PP17, PQR17, PCBG18, PME+15, QLS+19, RG15, KRRGW17, RV16, RTG15, RKV+18, RPC+18, SSL17, SWC18, Say17a, Say17b, STKL19, SRBB18, SMP16, STW16, SMA+16, SS16c, SJH+15, TFGK18, TBC+16, TCA16, TZW18, TND18, WSP17, WCH+17, WBl17, Wic16, WS15a, WS15b, XDrW17, XHY+17, XTYL18, YYY+16, YK15, YS15, XYP+16, ZAK15, Zad11, ZZPH18b, ZZPH18a, ZBZ+18, ZEP+16, dJRP+16, dTP16, BAVC17, JSS15, SGS18].


fluid-porous [NSK+16]. fluid-saturated [SSL17]. fluid-solid [MPR+18, YK15, YS15]. Fluid-structure [CGSS18, LGD17, BHKS16, BQCG17, CZBC+18, CM16a, CM16b, DG16a, DG18, DFGQ16, EKSS15, ED16, FW18, FRW16, HDF18, KLC18, KE17c, LC15, LLJJ18, LHY+19, MMMS15, MAA18, MKV+17, PHÖ+16, Say17a, Say17b, SMP16, SMA+16, WCH+17, Wic16, XTYL18, XYP+16, dTP16].

fluid-structure-interaction [LTBl6a]. fluid/thin [FL15]. fluid/thin-walled [FL15].

fluidic [MKV+17]. fluids [ARF18, AJVH17, BHKS16, CFPB17, CSN17, DSH+16, Don15b, Don17, Don18, DPRZ16, ES18, KKH18, KKS15, KKS16, KBK15b, Liu16, MS18d, PR16a, PS14, PS15a, RJ19, SG19, SK15b, TGY18, TOR+15, TL17, WE15, YD18, ZDGW16, ZYSW16]. Flux [ALMJ15, AWJ17, HR18b, LKSM17, Loh17, NMM15, VK18, ZN16, AHNF15, AMH+18, APV+18, AEL+15a, AEL+15b, AEL+17, BMT16, BNK18, BND16,
CJL16, CLP16b, FKF17, FS15, GHL15, HK19, HWH$^{+16}$, HZL$^{+15}$, KW15a, KKS16, KFL17, Kri17, LBZ16, LK16b, MS15b, MMB18, MDMS18, NMM16, Nis15, STW16, Stü15, SST$^{+15}$, TT16, TCL15, VST16, VV16, VPDP15, WS15, WSHT15, WS16, WG16b, YSW15, ZJLC15, ZXL17, BK17a. 

**flux-ADER** [NMM16]. **Flux-balance** [VK18]. **flux-based** [MMB18]. **flux-corrected** [HR18b, LKSM17, Loh17]. **flux-dependent** [KFL17]. **flux-limiter** [ZJLC15]. **flux-reconstruction** [AHNF15, AMH18, HK19]. **flux-split** [HZL$^{+15}$]. **flux-splitting** [KKS16]. 

**fluxes** [CCK$^{+18}$, DH18a]. **fly** [EZG16, Mas18]. **FMM** [CHCC18, YS18a]. **foams** [SS16a]. **focused** [TSN16]. **focusing** [KLWQ17]. **Fokas** [CFF18]. **Fokker** [FLT17, TC15a, TKC15, TCS15, TCL15, STW16, VV16, VDPP15, WSY15, WSHT15, WS16, WG16b, YSW15, ZJLC15, ZXL17, BK17a]. 

**force-coupling** [DKPC15]. **force-field** [LBB$^{+17}$]. **forced** [ABG$^{+18b}$, CM18a, GTL18]. **forces** [CG16, GLTB18, GLMC16, HK19, LT15, LM16, NJPB17, YDCK16]. 

**forcing** [CK16a, Hig15, KLSF15, LC15, LWTF19, PPLC16, PG18, PVB17, YS15]. **form** [ABH18, Del15, DS15c, DKK15, GWK16, JFS17, KML18, OWKE16, RÖS17, RSSSE18, RWN18, RN18b, SPP16b, WKO17, WMM$^{+18}$, XWW$^{+16}$, ZZH16]. 

**formalism** [PD17, SD15, SSL$^{+16b}$, TZSS17]. **formalisms** [OMLdL16]. **format** [GKMS17, GJ18, LY15c]. **formation** [AZ17, GP17, SG18, SP16]. **forming** [CLFL17, PR16b]. **forms** [AMH$^{+18}$, KTK18, PF15]. **formula** [DF16, LDK17, PBKK17, RPL$^{+18}$]. **formulas** [DC18b, Loz17]. 

**Formulation** [Kor17, KSVB18, Teu16, TSB$^{+18}$, BVG$^{+16}$, BHST17b, BDAA$^{+18}$, BBF$^{+17}$, BC18c, BS15a, CZBC$^{+18}$, CCK$^{+18}$, CMH15, CGRV17, DG16a, DSH$^{+16}$, DCP15, Don15b, Don18, DPRZ16, DB16b, DPRZ17, FRL15, GP18A, GMLD18, GS16, GC17, HTFL18, HL16b, Jon15, Kim15, Lap17, LL19, Ler15, LHA16b, MRFF18, MN16b, MTJ18, MTD15, MR16b, NN17, NN19, NF17, PBP18, PND16, QS18, RG15, RWN18, SDMS17, Sel15, SM16, SL16a, WZ16a, YTW15, ZHA17b]. **formulations** [AG16, FDKL17, JHPAT17, LGO17, RB15, SSB18, SU18, VS17, WRL16a]. 

**Fortran** [GBR15]. **forward** [FYC$^{+18}$, GPTA18, RMA17, RPK19]. **forward-peaked** [FYC$^{+18}$]. **four** [Ein19, RS16a, SD17, SSN15]. **four-dimensional** [RS16a, SD17]. **Fourier** [GKE16, Str18, AW18, ALM15, DY17, Fer17, GSN16, GWWC17, HB15a, KFL17, MDVM16, MP16, MH17, ST15, SGT16]. **Fourier-spectral** [ALM15, MP16]. **fourth** [BGN19, CG16, DL17, DLL$^{+17}$, DL18b, DL18c, FS18, GH17a, GPS17a, GPS17b, GL18, pHzSrC15, JPSX18, LHMB16, PXL16, VSC18, YC17]. **fourth-order** [CG16, DLL$^{+17}$, FS18, GH17a, GL18, pHzSrC15, JPSX18, LHMB16, PXL16, VSC18, YC17]. **FPDEs** [ZK15]. **FPGA** [LWL18]. **FraC**
fraction [DB16a]. Fractional [ECC18, KHP15, KADE15, KADE17, MK17, SK19b, YPK18, ZK15, ZM16a, ASB15, Ali15, ADH16, ATZ16, AEAM15, AHKT17, Ata15, BJ018, Beg15, BA15, BZ15, BDBEE15, BK18, BSWG15, BTWY15, CF15, CC15, CXH15, CNOS15, CLC16, CP16, CWL16, CLZ18, CV16a, Cui15, CGG18, Die15, DMSC16, DLT17, DYL19, DZC16, DvWZ18, EAAM15, EE16, GSS15a, GS15a, GMP15, GLW18, HPY18, pHSc15, HO15, HB16, HSC16, HZ15, JW15b, JW15c, JW16, JX15, JX17, JWH16, JLLZ15, Kat16, KNS15, KSM19, LZ16, LYG16, LWE17c, LWY17, LGG18, ILNS16, ILNS17, LZF17, Lot18, Luc15, MBSS15, Mac15, MD17, MD18, MS16a, MR16a, MM15, MP15a, MDDM17, OM15, PCF15, PPCK17, QDH15, SMC15, SYM15, SYM17, SX15, SPRW15, SLZ17, TY17, TSH17, Vab15, WH15, WZ15, WX16, WH16a, WU16, WZ17]. fractional [WZ18b, XY18, XHC15, YY118, YJB18, YLLH19, ZZK16, ZSP15, ZC15, ZG18a, ZzSK15, ZJL16, ZBZT17, ZHWQ18, ZLI17b]. fractional-order [ZC15]. fractional-step [HPY18]. fractions [EDvW17]. fracture [AES15a, AES15b, AES17, AEL17, BBB16, BPS16, BHTT17, BHMS18, FNNB19, FFJT16, FKS19, HCVH18, NFG15, Ne15, Wic16, ZHLZ18]. fracture-matrix [AES17]. fractured [ABG15, AEVW18, BHMS18, CEL18b, Noe15, SMT16, VSDW18, XY117, XM17]. fractures [BPS17, CB19, TAH16]. fragmentation [LPWK15, NFG15, WY17a]. frame [ALA16, DCA16, DvB17, NMM18, SL16a, YZ17, YX16, ZLS18]. frame-based [ZLGS18]. frames [CE17, Chu17]. framework [Abg18a, BS18, BGS18, BT15, BK17, CLY15, CLX15, CG16, CJ17, DEZ16, ES18, FOF15, GM16, GGW17, HAP15, HAA16, HL15b, ISP15, JTR16, JSVD17, JC17, KKP15, Lap16, LKK17a, LKK17b, LLM17, LS16b, LNN18, MLM18, MR17, MW15, MZ15, OD17, PWC16b, PC19, QMI15, RPK19, RW15a, RN20a, SLC18, TCL18, TK17, TMI116, TAB17, XDVW17, ZLI1, ZSM19]. frameworks [AAL15]. Fredholm [XZ15]. Free [MK15, ZB17, AA15, APV18, AS17, Ama15, ALM15, BD15a, BK17b, BDG17, BFI18, BMT18, BAR15, CDD19, CMH15, DDV18, FH17, FPD17, FKY15, FPV18, FC16, GP17, GGI15, HAA15, HR17, KLS15, KO17, LXC15, LS16c, LW17e, LTZ18, LEB17, MN15a, MG15b, MN15b, MDL16, MTZ16, MTK16, NWK16, PSS17, Pes15, PBBK15, DM18, RRM16, RDG17, RS15, Say17a, Say17b, SW18a, SL16b, Sla16, TBO16, VGF16, XLY15, XYT16, XL16, XS19, YSWW16, YF17, YCS17, ZFZL15, ZD15a, ZS17, GS16]. free-boundary [FH17, HR17]. free-flow [MTZ16]. free-slip [KLS15]. free-space [VGF16]. free-surface [FPV18, HAA15, LS16c, MN15a, MDL16, NWK16, RZ15, SX19]. Freeman [HB15b]. freestream [AHNF15]. frequencies [ALM17, LQB16]. Frequency [KÄGR18, LS15a, W16, BZ16a, BM15, CG18, CDL17, CC17c, CLQ17, FQZ18, GM19, HBR15, LHMB16, NKN17, NWN17, Par15, Par17, SZW16, SJXL15, Tre16, ZZ17a, ZF18].
frequency-dependent [SJXL15]. Frequency-domain [LS15a, LHMB16].
Frequency-independent [WT16]. Fresnel [DKTH15]. fretting [CLB+16].
friction [DLMI18, FNGDMR18, MBDCF17]. frictional [LL18, ZVO15].
Friedrichs [GSK18]. friendly [YZW+18]. From [MP15a, CCM15, Fun19, FL18, GSN17, Gro18, Hiv18, IM17a, Kim15, LTWZ18, dJRP+15]. front-tracking [FL18, dJRP+15]. fronts [Kim15, MW17b, SP15b, WWGW18].
Froude [CDV17]. Frozen [WT16]. FS-type [YZW+18]. FSHL [WHL17]. FSHL-based [WHL17].
FSI [BHST17a, BHST17b, BHST18, LHB+16, Liu16, LHW+17].
FTLE [NJ15]. fuel [CLB+16, MTL+17, PBA+15]. Full [LXSC16, ST16, ZKS+15, AEL+17, BFPI8, CXX16, DBD+17, HdBH+16, Hig17, HLTC18, Ido16, JAH19, KYPK15, MKY17, MAM16, MDP+15, PKN17, Par15].
full-angle [Hig17]. Full-wave [ST16].
full-waveform [BFPI8, MKY17, PKN17]. Fully [AVT17, FLV15, KSI17, LSMS17, NN15a, NLW+16, PKLC17, WSP17, XDVW17, BA15, CBZC+18, CC16a, CS16a, CGCH17, CLNH15, CkKHE16, Del15, EKEB16, FRW16, GS15b, HYK+16, JHT+18, KBG+15, KL18b, LLD+16, LM15a, LMKS15, MJ16, MNO+17, MTJ17, MTJ18, NN17, OvdHVH16, PR16a, DP17, DM18, PBB+17, QWXZ17, SMOM+17, SCC19, TCSM15, TH18, WMY18, Xia15, ZLY15, MHL17]. Fully-coupled [XDvW17, TH18, MHL17]. Fully-implicit [NLW+16, CZBC+18, Del15, LLD+16, MNO+17]. Fully-resolved [WSP17].
Function [BL18, AMN18, BR17, Cha16, CS18a, CV16, GBvZB16, GKE15, HXB15, HLTC18, Ike18, KMGK16, KW16, LB15, LC16, MG15a, MF17, MJ17, OD15, PD15, Sha17b, SF18b, SWX18, SP15b, SWLW19, TZZS17, WQZ15, WX18, XYPT16, YSW15, YLY18, YC16, ZXL17, Mue18].
function-based [YSW15]. function-generated [MF17]. Functional [GS16, OLB+17, AJP15, AKZ16, AAB+16, BHJ16, BEJ15, GJ18, GZ18, NP16, NGB+17, RS17, Tav15, TVB+16, ZLH+17]. Functionally [WW18].
Functionally-fitted [WW18]. Functions [SNK18, Alm19, BVM+17a, Bar18, BC16b, Bre18, CDDL19, CLP16a, FHY+19, FBW16, FLT18, FC16, GT19, Gri15, Gri19, HBR15, KDF15, KMGR16, LC18, LC17b, LHY17, LVL18, MVKD15, MR16a, MDT16, MFB18, PHLA18, STR15, SKS17, SW18a, VGF16, WG16b, WF17, XL17a, XM18, ZKS+15].
CHD⁺18, DCP15, Don15b, DB16b, Her16, JAH19, KYPK15, LGM15, LKK17a, LG16, LMN18, PA15, RBL16, SAEF17, SMS16, SGD18, SW18, Tao16, TCL15, Tou18, WHY18, YFJ18, ZLL16b, ZSM19, ZWG17.

Generalised [Eng18, Ran18, CC16b]. generalization [Sha17b].

Generalized [BPGS16, BLA⁺15, CSS15, DKTH15, HL15a, KH18, PX15, VGZ18, Ama18, ABH⁺19, ABdC⁺18, BVM⁺17a, BLM18, BL15, CEL15, CELZ18, CEL18a, DS15c, DWW15, EARA15, Fal17, GFr18, IG15, KKJB16, LY16b, MS17, RSSSE18, SNSG16, TM15b, WZR15, ZHA17b, AL16, CEH16, CT15, GFG⁺15, MSG18a, MSG18b].

generate [WG16a]. generated [BRW15, iI17, MF17, dlAC17]. generating [TMH16].

generation [CJD⁺17, FP16, GPAO⁺18, GG15, HS18a, HK15b, iI15, PVFN15, SAF⁺19, Spe15, TST⁺15, WHE17, WHEK18, YG18, ZJ18].

generative [BGG16]. generator [CWW17]. generators [Cot16, LWL18].


geomechanics [CHT17]. Geometric [BGL⁺17, EG17, BGN19, BMRA⁺15, CQL⁺17, EJMI18, HB16, HCW15, HK15b, KML18, LY15z, LY15b, MM16c, NMM16]. Geometrical [JG15, GDFL17, NLL⁺15, TLR16]. geometrically [DD16b, MMW15].

geometries [AC17, BOA17, CXL16, CRZ17, CGG18, GWC18, GEZK16, GT15, GSS15b, HS18a, HR17, LBTK18, MR16b, NSB15, OC18, OVP15, ÖPHA15, RMB18, TBC⁺16, TK15a, XdW17, ZG18b].

geometry [AMS17, BB17, BBKS18, BC16d, BR15, Ca16, DC17⁺18, GBC⁺18, GFr18, KYPK15, PW18b, RS16b, Sch16a, Sch16b, TCS17, TSST16, WKO17, WHEK18, XTYL18, YDCK16, YXD⁺16]. geometry-adaptive [XTYL18]. geometry-specific [YDCK16]. geophysical [MRP⁺15, ST16].

George [ABT16]. geothermal [WHT18]. GFM [LH17b]. GFRD [BL18].

Ghost [LVTR15, CR18, GL18, KTK15, LHW⁺17, PG18, HWK19, VLT16]. ghost-point [CR18].

Gibbs [LBZA16, LAK⁺16]. Gibou [YM15]. Gilbert [EMSS17].

Ginzburg [GS15b, LZF15, SKP⁺15, SSL⁺16b, Tav15, WH16a, ZYW16].

Girsanov [KM17].

given [CCHL16]. Glacier [AS17]. glaciology [ALKZ16].

GLM [DWG⁺18]. global [CB18, CCK⁺18, DC18b, GBC⁺18, Kor17, ZSY16, STEK17, SDH⁺16, SK17, SW17b, Sve18, TCA16, TMWF18, TL15, TO15, YP17].

Globalization [BBD⁺17].

Globally [RKO17a, BK17b, BK19a, NKN⁺17, XL16].

GMDH [SW17b].

GMDH-NN [SW17b].

GMRES [SL16b].

GMsFE [JL17b].

GMsFEM [GFG⁺15].

GN [ZED15].

GNAT [JD19].

Goal [GBD⁺15, JKE⁺17, VLB18, AMK17, BAD19, TVB⁺16].

Goal-based [GBD⁺15, JKE⁺17].

Goal-oriented [VLB18, AMK17, BAD19, TVB⁺16].

Godunov [AAG16, ADOP18, BV15, BT15, sCYL⁺18, Jac17a, MD⁺15, MWB⁺15a, Rod17, Si16, Si17, SIX16, XLI⁺17].

Godunov-like
[MWB15a]. Godunov-type
[AAG16, sCYxL18, MDP15, Rod17, XLL17]. golf [CWJ18]. Good
[BRK17]. Gordon [BZ16a, AMP16, LIW17d, LIW18]. governed [MP15a].
governing [Beg15]. gPC [KKL15]. GPU
[BBBG15, CWM16, HPY18, LXL17, MN18a, RGW16, SB18, SMAG17,
SSL16b, TRM16, VWW17, XZZ15, YZW18, ZBH18, ZMCC18, dlAC17].

GPU-accelerated [CWM16, HPY18, YZW18, ZMCC18].
GPU-advanced [SSL16b]. GPU-based [LXL17, MN18a]. GPUs
[RTG15, Swe18, WWGW18]. Grad [DCBK15, PKF16, RCRF16]. graded
[Bat17]. Gradient
[AT18, GJ18, CY18, DDM18, ALT17, BMCK15, CPT16, DH18a, ES18,
GO16, GGT15, GMA18, GNZ18, GY19, Nis18a, PHD16, RY18, Ru18,
SX18, SLL17, SZ15b, St17, SCS18, TAR17, VYP15, ZVO15, dMRH17].

Gradient-based [GJ18, ES18]. gradient-direction [GTT15].
grain-driven [CPT16]. gradient-enhanced [PHD16]. Gradients
[WN17, ABG18c, Bat17, BDh18, Loz17, Nis18a]. grafts [BFI16].
grain-resolving [BVM17b]. granized
[FOF15, HJKP16, KKP15]. graining
[CSCM16, MVK15, SZ17, dCGCA17]. granular
[AAG16, BVM17b, FNGDMN18, FC19, IML15, LEB17, MDP18]. graph
[WQZ15]. graphene [BTA17, GY19, KM16a, LYDB17, Ram18, RMC15].
grahene-reinforced [LYDB17]. graphical [LZ18], graphics
[AAB16, GP18]. Grassmann [GS18]. grating [FM15, ZS15]. gragings
[HN17a, HN18]. gravitation [BLMY17, CCK18, GLK19, LX18].
gravitational [LX16, XCM17]. gravity [MDW18, oMB17]. gray
[CG15, SJX15]. greedy [FHY19, SKS17]. Green
[BR15b, BR16, Pop15, BL18, Cha16, GT19, GKE15, HLT18, LM15a, LC16,
LC17b, MD16, Nis18a, PD15, St17, SCS18, TAR17, VYP15, ZVO15, dMRH17].

Grey
[DRM15, MR16, TWM18]. Grid
[RO16, AZ16, ACJ17, Ani16, BGG16, CQ15, CXL16, CS16b, CLB16, EH14,
EH15, FGL16, FAZ16, FPDT17, GH17a, GCM15, Gro18, HK16a, ii15,
ii17, JW15a, KLA17, KPK15, KS15a, KTG15, KLN17, Kor17, KS16d,
LML16, LM17, LMB16, LW18, LK17, MNG15a, MPFL16, MHZ15,
MAH16, PMGW16, PLVJ16, PR16c, PJB19, RR16, SPB18, SFT16,
SP16c, Sub18, SZ15, Tu15, VMP15, Vre17, WD17, WTGC16, WHE17,
WHEK18, Wll18, XLL17, XSL18, YYL16, ZZK15, dLDG18].

Grid-based [RO16, RR16]. grid-independent [WDG17].
grain-refinement [KS16d]. grid-to-rod [CLB16]. gridding [PL18].
gridfree [CB18]. gridless [DT15]. Grids
[SY17, ABH18, AB17, AG18, BNK18, BST15, BHT17, CBC18, CTT16,
CY16, CZL18, CLP16b, DD18, DWR18, DPO16, DL15, DBMB15, Eng18,
EH18, FGL18, GZ19, HR18a, H16a, Hu17, IQ15, IDSG15, IM17b,
JL17a, K15, K15a, K15b, K18a, K17, LAL18, LGB17, LB15,
LP18, LYZ15, LYZ15, LT17, LAEK18, LHGF16, MI16b, MN15,
MDHC15, MDM+15, MGBG16, MGB+18, MHGM+15, MF16a, ML16, NOM+17, NYNYM15, Nis15, Nis18a, OLDN17, PXR17, PL16a, PN17, PS16, Pei16, PF15, PBC+17, QDRB15, QLF16, Rag15, RDG17, RSD17, RKO+17b, RHvR+15, SP18, STK+16, SS16b, SwS16, SLY16, SYV14, SGD18, Sti16, TRLK18, WR15, WCN15, WRL16a, WRL16b, WRPL17, WWRS17, WKSS15, WRL18, XX16, XDSX17, XX17, XL16, XWZ+18, ZA15b, ZSW17.

Gross [ATZ16, ABR16, MBM+15].
ground [ATZ16, BJTZ15, Rua18].
group [JPLL15, KA15, LWLC17, MW16b].
growing [Bra16c].
growth [CB19, DMS17, FCW+18, JTR16, LTWZ18, RW15b, RTO15, YZW17, YC16, dlCGCA17].
GRP [DL18b, WW15].
Gr¨unwald [MBSS15].
guaranteed [DWGW16].
Guermond [Sir19].
guided [GBS15].
guiding [PKK18].
GW [LLVF+15].
gyrokinetic [CBB16, CB18a, DCD+18, Ido16, KB18, MW16b, MW17a, OLB+17, RFPSSA18, SCN+17, TSC17, TRLK18, ZZT+16, vOMB17].
handling [ADGN17, MPR+18].
hard [CT15, Cos16, KBK15a, SAH17].
hard-core [Cos16].
hard-sphere [CT15].
HARM [RKO+17b].
Harmonic [PAFT19, BG19a, DGL+15, ETAG15, LY19, MSG18b, RM16, RPC+18, SC18b].
Hasegawa [HK15a].
Haut [AS17].
HDG [MTBT18, SCN+17].
HDMR [JL15].
heart [ANL+16, KDPK15, NCP+17, SBG+17].
Heat [FS15, CMP19, CP16, CLG+19, DPRZ16, HG17, HDA+18, HC17, JL17c, MBHS17, PLC18, STK+16, ST15, VBG16, WSP17, WL18, WED15, YK15].
heat-conducting [DPRZ16].
heated [KHP17].
height [OD15].
helmics [XR17].
helicity [Suz18].
helicity-preserving [Suz18].
Helmholtz [ABFR16, BBF+17, BDK+17, CDC17, Cha16, CHCC18, CMH15, DLS15, EHHZ17, EG16, FQZ18, GM19, HK18b, JHPAT17, LGB16, LQB16, NPRC15, OLV16, RSB16, SLR+16, SwS16, Sti16, TCD17, WA18, YL17, ZND16].
hemodynamic [ISP+15].
hemodynamics [DFGQ16, MSV+16].
Hermite [AS16, DL18b, EEC18, HXB15, LIW18, Nor15, ST18a, TLQ15, TLQ6, YLBL16, ZQ16a, ZSQ17].
Hermitian [VYP15, ZD15a].
heterogeneity [BRK17, CGG18].
heterogeneous [ABG+15, BC18c, BM16, BSWG15, BKKRB16, CGMH18, CHCC18, CEL+18b, CFvKH18, DD15, DD16b, FQZ18, GFG+15, GVTQ16, HL15b, JT18, KYKS19, LKK17b, LZT17, LMC19, MGKG17, MSS16, SNSG16, SPX+18, SAEF17, SHP+16, TKB+15, TWH15, TAH16, TMT17, YGEM17, ZAK15, ZHWQ18, dMRIH17].
hex [RGW16].
hexagonal [GHL+16, RKRGW17].
hexahedral [WHY18].
HFVS [CJL16].
Hidden [RK18].
HIE [Ram18].
Hierarchical [BABB16, DH18b, PK16, TS17, AAE17, LMBZ15, OS16, RBI18, SA15, XQ17].
High [AD17, ABFR16, And16, ADK+$^+$17, ABH18, ABR16, BJRF18, BNM15, BKO18, BST+$^+$18, BK16b, BDZ15, BD18, BPD19, CCK18b, CLX15, CLTX15, CXY19, CC16c, DDD19, DIX+$^+$18, DS16, DLN15, DCL15, DDH+$^+$18, DCD+$^+$18, DPRZ16, DPRZ17, FP16, GLK19, GMA18, IDSG15, JLQX15, JFS17, KW15a, uKHGK19, LX16, Li17, LZ17b, LS16c, MRM16, MNR17, MS15c, MW16a, MDHC15, MC15, MP15b, MM16c, MSH+$^+$15, NMC15, OLV17, PxRS17, PLHA18, PKA+$^+$16, RA17, Sch16b, Shu16, SYV17, SY18b, SC18b, TLQ15, TLH15, VAD17, WL17, WT15, XJLQ15, YK18, AHNF15, AD15, AGC19, ALM+$^+$17, AMP16, APK16, ABH+$^+$19, ALMI15, ANL+$^+$16, BZ19, BD15a, BAGK16, BZ16a, BMR+$^+$16, BVT18, BGG16, BZ18, BFT17, BSM16, BDP18, BTT18, BFTVC18, CGQ18, CBB16, CBS18, CB15, CGH18, CCK+$^+$17, CDL17, CQ15, CJL16, CS17a]. high [CZ17, CZL18, CVK16, CFST16, CGJ19, CLQ17, Cot18, CLP16b, CWJ18, DC18b, DWGW16, DYL19, ECC18, FDK17, Fal17, FQZ18b, FAZ16, FWK17, FB16, FK17, FHA18, FHY+$^+$15, GM19, hGwSzS15, GFC18, Ger17, GSL18, GS18, GGL+$^+$17, GZL19, GGT15, GEZK16, GY15, HAPK15, HK19, HTZG17, HBR15, HW16a, HN17a, HN17b, HN18, HF18, HLQ16, Jer19, JZSX18, JTD16, KC17a, KCW17, KH17, KRFV16, KYW+$^+$16, KYY+$^+$18, Kou16, KFWK17, LMD16, LMS17, Lap16, LL18, LLP+$^+$16, LAL18, Ler15, Ler16, LSOF18, LLL16, LIW17b, LL16c, LGB16, LIW+$^+$16, LIW17d, LS18, LIW18, LMS17, LQB16, LP17b, LS16, MLM18, MS16b, MNG15b, MA17, MN16a, MTT19, MKC17, MDM+$^+$15, MA16, MSB+$^+$16, MMPS17, ML16, MB15, MM16d, NYNM15, NMM15, NJ15, NN15a, NNW17, NL18a, ODN17, O'S15b, OSK18, PE16a, PP18b]. high [PKW17, PAFT19, PE16b, PMB18, PBC+$^+$17, QWX18, QSB18, RXG15, RX18b, RGPS17, RN18a, RSB16, RJ19, RRMF+$^+$19, RWN18, ST171, Say17a, Say17b, SSVL18, SL18, SC18a, SWLZ15, STG17, SYV14, SLN15, SPZ18, SG17, SG17, Sil16, SK18, SWZ19, SK15b, Tao16, TD18, TK12, TK25, Ter18, TMH16, TMH18, Tre16, TBG16, TB18, TKP16, Tso18, UG16, VP+$^+$17, VN15, VV17, VSM16b, VSM16b, VBF15, WW15, WLM15, WZ15, WYS15, WCN15, WRL16a, WRL16b, WTGC16, WRPL17, WL+$^+$18, WSR15, WDG17, WME17, XQ17, XTY18, YCD15, YF17, ZP16, ZZK16, ZL16b, ZZZ17, Zha17c, ZY19, ZED15, ZXL17, ZS17, dLDG+$^+$18, DL18c]. high-accuracy [CBB16, Fal17, WZ15]. high-aspect [St16]. high-dimensional [BVT18, BG16, CB15, CY15, CVK16, Cot18, FDK17, FK17, Kou16, LLL16, LL16c, LIW17d, TBG16, WCN15, WTGC16, ZK16]. high-energy [LMH16]. High-fidelity [MS15c, MW16a, LSWF16, MSL16, PKW17, UG16, VBF15]. high-frequency [CDL17, CLQ17, FQZ18b, HBR15, NNW17, Tre16]. high-level [ZED15]. High-Order [BD18, BPD19, DS16, AD17, ADK+$^+$17, ABH18, ABR16, BNM15, BKO18, CCK18b, CXY19, CC16c, DJD19, DCL15, DDH+$^+$18, DCD+$^+$18, FP16, GLK19, IDSG15, KW15a, LZ17b, LS16c, MRM16, MDHC15, NMC15, PLHA18, RA17, Sch16b, SC18b, TLQ15, TLQ16, TLH15, WL17, WT15, YK18, AHNF15.
AGC19, AMP16, APKP16, ABH+19, ALMJ15, BZ19, BAGK16, BZ18, BFT17, BSM16, BTT18, CBS18, CGMH18, CCK+17, CFST16, CLP16b, CWJ18, DC18b, DWGW16, DYL19, FAZ16, FWK17, FHA16, FHA18, hGwSzS15, GFC18, GSL18, GGL+17, GEZK16, GY15, HK19, HTZG17, HN17a, HN17b, HN18, HF18, HLQ16, JTD16, KC17a, KFWK17, LMS17, LAL18, Ler15, Ler16, LGB16, LW17d, LIW18, LSI16, MLM18, MNG15b, MA17, MN16a, MKC17, MDM+15, MA16, MMPS17, MM16d, NJ15, O’S15b, OSKN18, PAFT19, PE16b, PMB18, PBC+17, QWX18.

high-order [RXSG15, RXS16, RN18a, RSB16, RJ19, RRMF+19, Sat17a, Sat17b, SC18a, SWLZ15, STG17, SGT16, STi16, SWZW19, Tao16, TK12, TK15b, Ter18, TMH16, TMH18, TKP16, Tso18, VPV+17, VN15, VWV17, WLM15, WSR15, YCPD15, YFJ17, ZP16, ZL15b, ZZZ17, ZY19, ZXL17, dLDG+18].

high-order-accurate [OLDN17]. high-order/low-order [CCK+17].


high-Reynolds-number [NL18a]. high-speed [BMR+16, GEZK16, MSB+16, QSB18]. high-temperature [LL19]. Higher [APP+16, BH18, BC16c, GS16, HSLQ16, JC17, LTXB17, LAK+16, MS18c, SGC18b, Sub18, Tie16, WR16, BGTM18, BPF+16, DPO16, DNBH15, DM17b, FRVR16, HB16, JYY18, LBTCG16, LW17c, Rua18, WSOW16, XY18, ZLL16b, ZLL17a, ZS18]. Higher-order [APP+16, BH18, BC16c, GS16, JC17, LTXB17, LAK+16, MS18c, SGC18b, Sub18, Tie16, WR16, BPF+16, DPO16, DM17b, FRVR16, HB16, LBTCG16, Rua18, WSOW16].

highly [ABG+15, FYC+18, GXX17, IK1S19, RKO+17b, ST18c, TT17b, WA18, YS17]. Hilliard [HW15a, ZYCK15, CS16c, CLS+18, DD16a, DJLQ18, GX15, HTMP17, KS16a, KMdB16, LJZ15, LCK16, MGCW18, WX17, ZSX17]. Hilliard-Brinkman [GX15]. Hinsberg [CFO18]. HLL [Bal15, DG16a, FLW16, SW17a, VNA15]. HLL- [DG16a]. HLL-type [SW17a]. HLLC [DG16a, Gor17, Guo15, LDGH16, SYY16, SM19]. HLLC-based [GOR17]. HLLC-type [DG16a, LDGH16, SYY16]. HLLD [GFW16]. HLLEM [DB16b]. HLLI [BN17, BLM18]. Hodge [DPO16].


[CQQ16, LHQ16]. **Hybrid** [BD18, BPD19, BHMS18, CSS15, Cho15, CCGH19, DG16b, DEZ16, Fuj19, HLML17, LZZS15, MJ17, MH17, SSDN15, SW17a, SGA+15, AVT17, ALM+17, AmS18, AdSS+15, BT17a, BBKS16, BBB+16, BFTVC18, CWM+16, Che18, CZL18, COV18, CFPB17, CBN+16, CG15, CCGH17, CYWL17, DD17a, DZR18, DTA+15, DJV+18, Dod17, Dom18, DJL+19, EARA15, FQZNZ18, FX18, FLW16, GBC+18, GBC+18, HXLL15, HWA15, HLY15, Id16, KD17a, KB18, KH+16, LSLA16, LML+16, LT18, LM19, LPBR15, LMN18, LHQ16, MLI17, MPT16, MS16b, MR16a, MAM16, MN16b, MDA18, Niu16, PL16a, PBC+17, PWP15, RBJS15, SWLZ15, SCJ+18, SCS16, SSC19, TAJ+17, Tie16, WMY16, WPB15, WR16, XWL+16, XDSX17, XX17, XML17, XWZ+18, Yan16a, YWS+16, YX15, YB17, ZK18, dCCGA17, AB15, GSS15b, RKO+17b]. **Hybrid-dimensional** [BHMS18, XML17]. **hybrid-Lagrangian** [KHC+16]. **Hybridizable** [UL16, NPRC15, SMP16, SWZW19, VCNOP18]. **hybridized** [BT15, FNP17, MLM18]. **hydraulic** [CB19, NMM19]. **hydraulics** [CBN+16, SSC+16, TS+18]. **hydro** [CYS17, MRP+15]. **hydro-dynamically** [CYS17]. **hydro-geophysical** [MRP+15]. **hydrocode** [VGZ18]. **Hydrodynamic** [GA18, BMC+18b, KV16, LMB18, LCF16, MBW+15a, MBW+15b, MLB18, NJPB17, Ram17, WRL18, ZYSW16, ZK18]. **hydrodynamically** [BP18, PMGW16]. **hydrodynamically-consistent** [PMGW16]. **Hydrodynamics** [AWS16, DRM15, FRO17, KKR+18, ML16, BKS18, BLK15, BHE+17, BDLM18, BNC15, CG16, CM18c, DDJ18, DDJ19, DD15, DSH+16, Guo15, GFW16, KSSL18, LI17, LS16c, LSR16, MP+18, NT15, PKP+17, PLB18, QSY16, RKO+17b, SKO18, SK19b, TOR+15, TL17, WT15, ZS16, ZHA17b, TP16a]. **hydrogels** [LJZ15]. **hydrology** [MRA16]. **hydrophobic** [Fed17]. **hydrostatic** [AZ16, GDFL17, LX18, YP17]. **hyper** [MG15b, Tsa16]. **hyper** [Tsa16]. **hyper- viscosity** [MG15b]. **Hyperbolic** [NL18a, NN16, PMF15, BD15b, BN17, BK16b, BLD15, CTG16, CS17a, CTM+16, DLP19, DL18a, DL18b, DPRZ16, DB16b, DPRZ17, EFT15, FLV18, FS17b, FHA17b, FHA18, GKN18a, HS18b, IDG15, JL18c, JXZ15, KKS15, KKS16, KA15, KC18, LMS17, LAL18, LMBZ15, LLLN18, LP17a, MSK18, MA17, MN15, MN16a, MRN16, MDHC15, MB15, NMM16, NBH18, NN15a, NN18, Nis18a, Nis18b, NW15, OZ17, PxRS17, POSB16, PTT18, SS18a, SW17a, SL18, SPB18, SPP16b, SSMR18, TLL15, TM15a, TM15b, TC15c, TPB16, VNA15, WLGD18, WTX17, YJ17, ZPW18, ZQ16b]. **hyperbolic-equation** [KKS15, KKS16]. **hyperbolicity** [SS18a]. **hyperbolicity-preserving** [SS18a]. **Hyperbolization** [VST16]. **hypercontraction** [LY15c]. **hyperdiffusion** [URGT18]. **hyperelastic** [BM16, CWWZ17]. **hyperelasticity** [HFM17]. **hyperinterpolation** [LB15]. **hypersingular** [Tsa15]. **hypersonic** [CLG+19, GRS15, XWZ+18]. **Hyperviscosity** [SF18b]. **Hyperviscosity-based** [SF18b]. **HyShot** [CELI15]. **hysteresis** [MCHL16].
I2D [RHvR+15]. IB [ZZPH18b, ZZPH18a, PZNG15]. IBM [SHP+16]. IBSE [SGT17]. ice [ALKZ16, AS17, ALTR17, CLvS17, CS18a, IPSG15, KDL15, MDW18, MR17, RW15b, SRBÖ17, WTL17]. ice-covered [MDW18]. icosahedral [Sub18]. Ideal [DWG+18, BK17c, BND16, CFST16, DWGW17, DLK17, FS18, KW15b, LSZ18, PL16b, WSH+17, WG16b, WDGW17, XL16]. idealized [FCW+18]. Identification [CGM15, KM16b, TBLM15, BCB15, EFHZ17, RTG18, RYZ18, ST15, ZFPB16]. identify [SPM+15]. Identifying [LVL18, WTS+17]. IGN [ZED15]. II [DLC15, BD15b, BGTM18, BHST17b, BFFB17, CELI15, DL18c, EFT15, GPS17b, GY17, LZZS15, MBN16, MS18b, PxrS17, Say17b, Sch16b, SW16, SHP+16, Si17, TKC15, VSM16b, WRL16b, ZLH+17]. II. [Cac15b]. III [BN17, DLN15, GY18, LB15, WRPL17]. IIM [LXC+15]. Illustrative [Cac15b]. Imada [Zil15]. image [NL15, SG18, WLVW17, WCVF16, YS18b, ZC15]. imagery [EFHZ17]. images [CV15]. imaging [AJP15, CR17, Gib18, HZ17, LWZ16, MCHL16, Par15, PKLS17, SG17a, WSU+15, ZF18]. imaging-based [MCHL16]. Imbalance [KS16d]. Imbalance-correction [KS16d]. IMEX [ABR16, BLMY17, JLPX15, VN15, XJLQ15, XQ17, SSZ19]. IMEX-spectral [ABR16]. IMEXP [LTR17]. Immersed [AB16a, BDG+17, MCM16, MLH17, SGT16, ZILZ15, ACS16, AB17, AEvW19, BK16, BPS17, BHF15, CCHL15, CLM15, CYWL17, De18, FR18, FG16, FG19, FKY15, GWC18, GLMC16, GC17, HWH+16, HS18a, HF18, HLY15, HLSY16, JL17a, JBM19, KLSF15, KLC18, LTB16a, LC15, LFPD16, LBZA16, LC17b, LD15, LWT19, MAP17, MKS18, MM16d, NJPB17, OP15, PBNZ18, PPLC16, PN18, PG18, PV17, QB18, RS16b, SK15, SKF16, SHKL16, STKL19, SMA+16, SMOM+17, SLdTV18, SHP+16, SCLG15, TZGW18, TKF17, WE15, WSY16, WCH+17, WS15a, XLY15, XP15, XTYL18, YS15, YXF+16, YZZ15, ZB15, dTP16, XY17, PF16, RMF+18, SG17]. immersed-body [YXF+16]. immersed-boundary [BKP16, GC17, LD15, PVB17, YZZ15]. immersion [SWS17]. immiscible [AASRT17, CM18d, Don15b, Don17, Don18, FGL16, HTZG17, KKH18, YD18]. Impact [CS18a, HC15, KBF17, TT17a, URT17a, LBZA16, RSH18, YC15]. impacts [Heu17]. impedance [BG16a, DSSP18, JSP16, MS15a, MMP18, SS17a, ZZH16, dFGS+17]. imperfectly [SPB17]. imperfectly-mixed [SPB17]. impinging [Gan15]. Implementation [ALTR17, BT17b, DTA+15, HdBH+16, JD19, PJE+16, SA15, YZW+18, BS18, BG16a, CDC17, DY17, HKW19, HK15b, JSP16, KC17a, KBF17, LZ16, MTT19, MM16c, PM16, PKA+16, SRBÖ17, SE15, TRM16, ZZH16]. implementations [SBT17]. Implicit [Du18, LM16, Nis18a, PLW16, Say17a, Say17b, SD18, TM15b, ZZX16, AVT17, AB17, BR15a, BFNGDN18, BZ18, Cai16, CZBC+18, CB15, CBC+18, CC16a, CS16a, Che18, CC16c, CG15, CW18, CTM+16, CM16b, CL16b, CCGH17, CG19, CLNH15,
CvKH16, Del15, DLMDV18, DJLQ18, ESHA16, Fer17, Gam15, GS15b, GZ17, Gen11, Gho17, GXX17, HPY18, HK18a, HDA+18, JRPPS18, JZ16, KC17b, KL18b, LSMS17, LLD+16, LH17a, Lap17, LXC+15, LL16b, LT17a, LTR17, MM16a, MNO+17, MH18b, MTJ17, MTJ18, MMP17, NMC15, NWKC16, NNW17, NLW+16, OZ17, PKP+17, PPLC16, PP17, PG17, PMS+15, QWXZ17, QDRB15, Ram17, RMBN18, RAMB15, SXBB15, SLH18, SKW19, SZ17, SCC19, SPCH16, TCSM15, TD17, Tie17, VI16, WC15, WH16a, WMY16, WHLT18, XXR18, ZBH+18, ZMCC18, ZYCK15, ZRT18, FNP17.

implicit-explicit [DLMDV18, PGM17, SLH18]. implicit-exponential [LTR17]. implicit/explicit [CB15, Tie16]. implicitization [DV17]. implicitly [RB18]. implosion [FCW+18]. Importance [CCL16, OCSC18, RC18, Tie16]. Improved [ADE+17]. Improving [HLL+18, AB15, GO15, LWY18, SIX16, vLtTBI17]. Improve [MN15, NMM19, NSK+16, PA19, TZSS17, ZLI15a, AdRBC16, AJVH17, BLL19, BK16, BSK18, CCRdL17, CZ16, CZ17, EDC16, GH17a, GRS15, HZ17, KMS+18, KC17b, LS16a, LWTF19, MO18a, MH15, MTBT18, STG17, SK18, TND18, WSY15, WLGD18]. Improvement [SY17, BK17a, OMLdL16, PSMPG17, WBC+16]. Improvements [ACC16, Ani16, HP16, COdL18]. Improving [GO16, ID17, PDS15, SM16, JW15a, KK16]. impulse [FHS17]. impulsively [GC17, SHW17]. in-cell [KKH18]. in-depth [DV17]. in-plane [DBD+17]. in-space [Har18]. incident [BFP18, GD19]. include [HMRG16]. Including [Gen11, Gho17, BM19b, BKG15, Gru15, HCM17, Hig17, LB15, SG17b]. Inclusion [dDPG19, TSR15]. inclusions [DCA+16, KLB15, WL18]. incompletely [WN18]. incompressibility [ZK15]. Incompressible [LS16, RV16, ZS+17, ACS16, ALL18, AEvW19, BHST17a, BHST17b, BHST18, BFI+18, BM19a, BCI17, BPD19, BFTV18, CCRdL17, CS16c, CX16, CKQ15, CS17b, CCM17, CLP16b, Don15a, DS15c, Don15b, Don17, Don18, Fan16, FWK17, FWK18, FLV15, Fer17, FG19, GTG15, HPY18, HG18, HP17, HTMP17, KIA15, KW16, KF17, LVR15, LE16, LRA17, LM18, LHB+16, Li17, LZ17a, LS16c, LC16, LC17b, LH18, LZW+17, LHA15b, MH15, MS18b, MLM18, MC15, MI19, MFPL16, MS18c, MHS16, MR16, MN18c, NT15, NN19, OVP15, PG17, PKP+17, PL16a, PPLC16, PF16, PND16, PBBK15, PMB18, PQR17, QYF15, RBJS15, RDM15, SL17, SMS16, SY18a, SL16, SOS+15, SGT17, SST+15, SUZ18, TL15, TD16a, TOR+15, Tou18, VL15, VK15, Vre17, WD+17, WSS+15, WSHT15, WZ18a, WSF17, XWL+16, XX16, YWS16, YD18, YZZ15, ZN18]. incompressible [dFJN16]. Incompressible-compressible [LS16]. incorporated [LHW+17]. increased [DBZ17]. Increasing [Die15]. increasingly [KMG16, ZS18]. Incremental [SKS17, CBN+16]. independent [Bre18, CLM16, DLP19, HDF18, WD+17, WT16, YS18a]. index [LTA15]. indicator [FS17b, HCS18b, KC18, RH18]. indicators [NdLPCC19]. indistinguishable [SD15]. induced
[BLL19, BPGS16, FRL15, HDA⁺18, YR15]. inducing [LAA16]. induction [ACC⁺15, BK17b]. inductively [MNO⁺17, TC15d]. industry [VVW17]. industry-standard [VVW17]. inequalities [KRJ15]. inequality [MCN18, OKE17, YSY17]. inertia [MDP⁺15]. Inertial [Ram17]. inextensibility [Vog17]. inextensible [RV16]. inference [CZB15, HKKP16, HYL17, IPSG15, LZ18, LYLK17, MPP15, NS16, SPP⁺16a]. Inference [RPK17a]. infiltration [MRP⁺15]. infinite [And16, BGL⁺17, CZB15, GBD17, HYL17, MJ17, SHLG15, ZBZ⁺18]. infinite-dimensional [BGL⁺17]. Inflow [KHHN16, CSLL15, ST18a]. Inflow/outflow [KHHN16]. Influence [SC18a, SWLW19, MDMS18]. Information [GKRB17, Fan19, KRBNW17, LKK17a, LKK17b, LSWF16, RMK15]. informed [CLM16, CMW16, RPK19, XWW⁺16]. inhomogeneity [AJP15, LPWK15]. inhomogeneous [APKP16, CLQ17, DG16c, LM15d, OLV16, PA19, RMA17, SC18b, Yan16a, YJ17]. initial [DZC16, MM15]. initial-value [DZC16]. initialization [Wac15]. injection [KS18a, dCPDC⁺17]. inputs [LL17, JXZ15, JL17c, LL16c, Liu19]. Insights [MSP16, KS16b]. Insilico [HED⁺16]. insoluble [SA16, dJRP⁺15]. instabilities [MC16, XLL⁺17]. instability [CCZ15, DNOP15, MHZ⁺15, RLV16, SM19]. instantaneous [DLP19]. instationary [AMM⁺15]. Integral [Vec16, AAE17, AAE19, ABN15, BC18a, BRK⁺18, BNM15, BKO18, CCZC16, CG18a, CLX15, CCG17, CRZ17, CV18, CGGH17, DvB17, Dod17, Gen15, GD19, HHCG15, HSSZ16, JL16, KHP17, LGO17, LDL⁺16, LSP⁺18, LY15c, MKY1Z17, MS17, Moh15, OC18, OT15, PA19, PLL15b, QM18, RVZB15, RMA17, SL16a, SO17, Sni18, ST18c, SV17, TP17, Tsa15, Tsa16, WZ18a, XZ15, ZGD⁺16, ZRT18, Zil15, aKT16]. integrals [BPF⁺16, LO16, Tsa15, Tsa16]. integrated [SSC⁺16, ZHWQ18]. integration [BCM15a, BBBG15, CCGH19, EBQ15, EMSS17, FCL17, GZY16, GP16a, HEPG15, JZ16, JFS17, LMS17, LLVF⁺15, LPR19, MM16b, MS18c, MTK⁺16, NDCB17, PKK18, SXBB15, SGL18, SAOW17, TW15, TW17, TC15c, WCN15, Web14, WBC⁺16, WHE17, WHEK18, Yi18, ZJS15]. integrations [RMK15, SKW19]. integrator [BZ16a, LLWJ18, SS18c, WSR15]. integrators [CSS17, ETL17, FPASS16, GAN⁺16, GRT18, KTG16, LW15b, LW17, LIW18, LTR17, RFPSSA18, Tao16, WW18, WZ18b]. integradifferential [BCC⁺18]. Intel [SGL18]. intense [Vai15]. interacting [CGRS18, GBS15, JBM19, MFB18, MM18, SGMS16]. Interaction [CLM15, TFGK18, AMB17, BQCG17, BCM15b, Buk16, CGS18, CBZC⁺18, CM16a, CD18, CH17, CM16b, CYWL17, DG18, DFGG16, EKSS15, FW18, FLV15, GKM17, GLS15, Har18, HDF18, HLL⁺18, HTBG15, KH15, KLC18, KC17c, LTBl16a, LC15, LLY18, LHY⁺19, LGD17, MPR⁺18, MTK17, MA18, MOR18, PHHA18, PHO⁺16, PR16a,Rua18, Say17a, Say17b, SSL⁺16a, SSVL18, SA16, SGC⁺17, SMP16, SMOM⁺17, SC18a, Vai15, WCH⁺17, Wic16, YYF⁺16, dTP16]. interactions [ATZ16, BHKS16, BJT15, BTA17,
BPM18, Cos16, DG16a, FRW16, HWH+16, LML+16, LXL17, LSP+18, MKV+17, PSV18, SG19, SGC+18a, SMA+16, WMY18, XTYL18, YS15.

interactive [CLFL17]. interatomic [TST+15]. intercellular [CFG16].

interchange [Sov16]. Interface
[ABG+15, CNG99, DS15a, GZ17, GWYS18, GLTG15, GPG17, VK15, AAL15, AMN18, APPK16, ACS16, BKS18, BJ15, CCHL15, CNG17, CTJ+17, CWW17, CR18, DS15b, De18, DXvW18, DF16, FB17, FMRZ17, GHR17, GLTB18, GWC18, GD19, GY17, GY18, HHA15, HWH+16, HTZG17, HG17, HLY15, HLTY16, HW15c, IM15, JBM19, JLC15, KTK15, uKHGK19, KS16c, KS18b, KSVB18, LSD+17, LSR16, LD15, LHA15b, MNG15a, MCW16, MNR17, MTZ16, MA19, MWYZ16, NFG15, OD15, PHHA18, PA19, PN18, PR17b, QWX18, RW15b, RV16, Say17a, Say17b, SA16, SHA16, SLC+18, SCJ+18, SGM18, SR18, VPM15, WSS+15, WL17, XLY15, XX17, XP15, ZL15b, ZD15b, ZDGW16, ZY19, TKB+15]. Interface-

interface-interaction [PHHA18, SA16]. Interface-preserving [GWYS18, ZY19]. interface-resolved [SLC+18]. interface-sharpening [HTZG17]. interfaces [ADGN17, AB18, BG19b, BAR15, CZL+17, CSN17, CLM15, DIX+18, EN18, ELH+16, HKLZ18, HGR16, KKLS17, LSM17, MAK15, MF17, NN17, OS16, OCS16, PCN15a, PR16b, PS14, PS15a, PC19, QDRB15, SMOM+17, WXW15, WB17, ZIL15, dFVJ15].

interfacial [DXvW18, GOR17, GZLH19, HKW19, KRK+18, LHA16b, Say17a, Say17b, SZCL18]. Interior [MR1RF18, Fer17, OKE17, PAK+16, DM18, SL17].


interpolating [WLK+16]. Interpolation
[SNK18, dPPS16, APP+16, ABdC+18, BDG+17, BDAA+18, BST15, CGM18, DJD+17, ECC18, FYO+15, HSC16, JYY18, JWH16, KAR17, KMG16, LB15, MCW16, MAP17, MB15, NMA15, PJC16, PAI19, PF15, RDG17, WR15, WKO17, XY17, ZW+18, FFB16]. interpolation-free [RDG17]. interpolative [BBB15, LT17b]. intersecting [BPS17].

intersection [CZ17]. interstitially [BBW16]. introducing [TTN+16]. intrusive [Blo17, CMP19, HN18, HU18, XYF+17, vdBKD17, NW17].

intuitive [ZW15]. invadopodia [GP17]. invariance [BKP16, GHL15, LT17]. Invariant [JL18c, ZW17].

Invariant-region-preserving [JL18c]. invariants [Hue15, LDHJ15].

Inverse
[DDJ18, LBTCG16, LLL16, LFT+16, AJP15, BJO18, BCS17, BSK15, BTB18, BGL+17, BKL17, CT15, CGM15, CMW16, EZG16, FK17, GZ16, GRMK15, GWE+15, GHI+16, KE15, LPU18, LW15a, LY16a, LMTC15, NKN+17, OLD+18, Par15, RPK19, RYZ18, TCD17, WL18, WLK+16, ZF18].
KDV [BNS17, EAAM15, LHQ16, ZHS18, diHC16]. KdV-type
[LHQ16, ZHS18]. Keller [ZM16a]. Kernel [DJD+17, FRO17, MOAA15,
SPB17, BKP16, CGJ19, RFGSV15, VD16, YS18a]. Kernel-based [SPB17].
Kernel-conformation [MOAA15]. Kernels [EJZ17, CDC17, JAH19].

Kershaw [Sch16a, Sch16b]. key [GH17b]. kinematics [OSP17, PE15].
Kinetic [ESGS17, KTK18, ASB+15, AS15, BCC+18, BABBG15, CX15, CXL16,
CCGH17, DDJ17, DLN15, DAO17, FX18, FG17, FLV18, GHM15, GMS16,
Har18, Hiv18, Ido16, JLS18, JPSX18, JZSX18, JS17, JHT+18,
KM16a, LLFX18, LXSC16, LP17a, LP17b, MAM16, PX15, PXL16, PX16,
PLWJ16, RXG15, RXS16, RKH15, SWZW19, SXJ15, SJXL15, SST+15,
SJX17, TZGW18, TKP16, WY16, WLYX17, WCL15, XCL17, YSW15,
YWS16, Ys17, YZ15, ZAK15, ZLFW18, ZXL17, ZLGS18, ZZX16, vdKK16].
kinetic-fluid [JS17, MAM16, ZAK15]. kinetically [FGLB16]. kinetics
[DEZ16, LYB18, MTK+16], KIOPS [GRT18]. Klein
[AMP16, BZ16a, LW17d, LIW18]. KMC [GKRB17]. Knights [SGL18].
Knudsen [KJ17b, LLFX18, SWLW19]. Kohn
[BEJ15, BHL15, CDM+16, HXX18, ZLH+17]. Kolmogorov [FLT17].
Korteweg [CDN17, LY16b, TXKvdV15, TXKvdV16]. kriging
[KSV+15, SGC+17, MS16b]. Kronecker [CLZ18]. Krylov [AAB+16,
AdSS+15, AB17, BSK15, GMP15, GRT18, GWC17, JZ16, PSP16, TWM18].
Kuramoto [CCP19]. Kuroshio [YR15]. Kutta
[BK16, O'S15b, BR15b, BZ18, CCRdL17, CB15, CCGH19, HK18a, HS18b,
JH17, MVK16, MW17a, MH18b, NMC15, PP17, SL17, WJD16, WBM15a,
ZT17].

L [EH15, XS15]. laden [AMB17, BKG15, LWT19, SRS19, ST18c].

Lagrange [BLL19, Bra16b, BMCK15, CGK17, CGS15, DDJ18, FG16, ID17].
Lagrange-Projection [CGK17]. Lagrange-remap [DDJ18]. Lagrangian
[AGBL15, AB16a, BMR+16, BKS18, BDM17, BS15b, BLD15, BDZ15, BD17,
BDLM18, BKKJ17, CQ16, CGQ18, Cap18, CM18c, Cot18, DL15, DB16a,
DL15, DAO17, Ein19, FL18, FBG15, FFJT16, FLW16, GBM16, Ger17,
HAH16, ISST18, KHC+16, KSSL18, KYPK15, LS16c, LSTkM15, LMB18,
LCF16, LWT19, MC18, MBW+15a, MBW+15b, MLB18, NJ15, OMLdL16,
OD17, PP18a, PLB18, PBK15, PKK18, PZF16, PV17, Ram17, SRB+17,
SWC18, SPB17, SW18a, SFT16, StdTV18, TL17, VW16, VSM16a, VSM16b,
WSN+15, WRL18]. Lagrangian-based [SRBÓ17]. Lagrangian-type
[BDZ15]. Laguerre [Ter18]. laminate [ZHYW18]. Lanczos [ZWUR16].

Landau [BHZ16, EMS17, FJLC18, GS15b, HYK+16, KLI7b, LZ15a,
SKP+15, SSL+16b, Tay15, WH16a, ZYW16, ZG17]. Landau-de [BHZ16].
Landing [SGL18]. landslides [dlAC17]. Langevin
[ALA16, MGT18, TR17, VS17]. Laplace
[ABN15, BSK15, HPV16, LYP17, PAFT19, SLR+16]. Laplacian
[BGM16, CP16, DvW17, FSW17, GT19, RM16]. Laplacians
[BDB18, SYM15]. Large [CLB+16, DKPC15, DL18a, FNP17, AG18,
BQCG17, BR15a, BPM18, BBBG15, BJ16, Cac15a, Cac15b, CGSS18, CZL+15, CC17, CM18b, CC16c, CS17b, CHE+17, CMW16, DLLV17, EG18a, ELH+16, FB17, Fer17, FG17, FRW16, GHH15, GDFL17, GFL17, GLS15, HXB15, HLTC18, IPSG15, JdR+18, JB19, KP15a, KDPK15, LHS+18, LLM17, LXL17, LWM18, Liu16, MD16, NYNYM15, OLV16, PLL15b, PNP16, RFGSV15, RS16b, RWG18, RDG17, SKP+15, SMD18a, SSA17, SLdTV18, TRL15, TSR15, VV16, VKE+18, WSY15, WSS+15, WSHT15, WMY16, WC18, X18, CB16, CWS18, LLM17, PD17, TABR17.

large-angle [TSR15]. Large-Eddy [FNP17, CLB+16, BR15a, MD16, RWG18, SMD18a, CL16, CWS18, LLM17].

Large-scale [DKPC15, AG18, Cac15a, Cac15b, CGSS18, CGC17, CMW16, IPSG15, KDPK15, LHS+18, LLM17, LXL17, LWM18, SKP+15, SSA17, VKE+18, XB18].

Larmor [CCZ18]. laser [ALM15, JB15, TSN16, Vai15, WTS+17, YXD+16].

laser-molecule [Vai15]. last [GG15]. latency [AW16]. latitude [SFT16].

latitude-longitude [FST16]. Lattice [AS16, CSB15, GBU15, GW16, GSS15b, HK15a, MKV+17, PF16, ZYW16, ZQCT15, ARF18, APT17, AJVH17, BTB15, BAR15, CLM15, CYWL17, DCBK15, FGL16, FB17, FBL17, FST15, GPS17a, GPS17b, GR15, GBCF15, GBCF16, HLU15, HY15, HW15c, HHY16, HW16c, HW16b, HW18, JSY15, KGT15, KP15a, KS15b, KS16d, LFDP16, LL16b, Li17, LC16, LC17b, LWL16, MDW16, MG17, MK15, MHGM+15, NSL16, Ols15, PMG16, PGW18, RKL18, RS15a, RTO15, STW16, Shi17, STG17, WSY15, WSHT15, WSY16, Xie15, XR17, XTYL18, YFKS15, YYY+16, ZY17, ZW17, LDWZ15, VMM19, WGME17, YC16]. lattice-Boltzmann [GBCF16, ARF18, GBCF15, KGT15, LL16b, WGME17]. lattices [FST15].

Laurent [For16, GRMK15]. lava [ZBH+18]. law [AP16, CT15, JL18c, LYZ15, LY15b]. laws [AW18, BD15b, Bal15, BT16, BMRA+15, BK16b, BLD15, CHOR17, CS17a, Cho15, CTR+15, Del15, DL18a, DL18b, EFT15, FST15, FST17, FSA17b, FST16, FST15, GLS15, KM16a, KHP17, NL18a, PM16, PAFT19, SN15, SLC16, ST18b, ST18b, SD16, SLW19, SJH+15, WSZ15, SWLZ15, SW16, TLQ15, TM15a, TM15b, VNA15, WLD18, ZP16, ZP18, ZQ16b].

Lax [DDJ18, DL18c, FLW16, Heu17, LDO17, LFT+16, RPL+16]. layer [AKM+19, B219, B16a, CKK18a, CS18b, CM15, DGHP17, DKK15, HRJ+16, KHP17, NL18a, PM16, PAFT19, SN15, SLC16, ST18b, SD16, SLW19, SJH+15, WSZ15, SWLZ15, SW16, TLQ15, TM15a, TM15b, VNA15, WLD18, ZP16, ZP18, ZQ16b].

layered [CHCC18, DvB17, Gif18, Hig15, HN17a, HN17b, HN18, LKB15, MESS16, RZ17].

layers [BJ17, BBN18, BFGNDR18, BLG+17, CHCC18, GBL18, MDT16, MTT15, PD16b, SL17, WBM+15b, DCC16]. LBFGS [YGJ18]. LBM [STR15]. LDG [LHQ16]. leaky [Tre16]. leapfrog [MM16b]. Learning [RC18, TB18, CE18, LKK17b, LJT16, PD16a, PT17b, QLS+19, RPK17b, RK18, RPK19, SS18b, XTS+16, YMI19, ZLC+18]. Least [CNW17, NW17, SNK18, BVG+16, BtTBI18, Bio17, CBA17, CZL18,
HGW18, JL15, KP15c, LYZ18, LJ16, MAP17, SX16, SLdTV18, TMWF18, TMR16, VLN+18, ZNX15, dTP16. least-squares
[BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [MMW15, OSP17, RRL19]. lengths [CLZZ19]. LES/under-resolved [MMPS17].

[468x681]least-squares [BtTBI18, CBA17, CZL18, HGW18, LYZ18, MAP17, TMWF18, ZNX15].

least-squares/fictitious [HGW18]. left [Mac15]. Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x646]least-squares [BtTBI18, CBA17, CZL18, HGW18, LYZ18, MAP17, TMWF18, ZNX15].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x634]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x622]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x610]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x608]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x600]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x598]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x590]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x586]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x574]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x562]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x551]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x539]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x527]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x515]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x503]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x491]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x479]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x455]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].

[135x431]least-squares/fictitious [HGW18].

Legendre [BR17, Bre18, MDVM16]. Leidenfrost [VALT16]. length [Mac15].
[BG16b, BMT18, BLG+16, BLC+17, CTJ+17, CGS15, CLM15, DD15, FMRZ17, HW15c, HW16c, KLWQ17, LVB+15, LSYF15, MTZ16, NWZ18, ÖPHA15, OCS18, SDMS17, TK12, TK15b, VALT16, ZYSW16].

**liquid-gas-particle** [CLM15]. **liquid-liquid** [CTJ+17]. **Liquid-vapor** [BG16b, DD15, FMRZ17]. **List** [Mac16, DFS16]. **lithofacies** [dFGS+17].

**Liquid-vapor** [BG16b, DD15, FMRZ17]. **List** [Mac16, DFS16].

**lithography** [OLD+18]. **Liu** [GMD19]. **Liu** [GMD19].

**Lloyd-preconditioned** [YGJ18]. **load** [GFA+16, JBLO15, KJ18].

**load-balancing** [GFA+16]. **loads** [LC17a].

**load** [GFA+16, JBLO15, KJ18].

**load-balancing** [GFA+16]. **loads** [LC17a].

**Local** [DLL+17, HSC16, KLRT15, MSK18, TL15, ADK+17, BBF+17, BK16b, BDZ15, CBZ18, CPV16, CEL+18b, DKT15, DY19, FB15, GSK18, GX15, KY15, KL15, LW15b, MNG15a, MK17, MGW18, NS19, OSP17, RP18, RPS17, SSL+16a, ST18b, TXKvdV15, TXKvdV16, VAD17, WZ18b, YS18a, YTW15, ZLH+17, ZZW+16, dlHC16].

**Local-global** [TL15]. **local/global** [CBZ18].

**localisation** [CK16b].

**locality** [MK17, NSB15].

**Localization** [BFP18]. **Localized** [DLY17, LL16a, AH15, CLR15, HK19, WL17].

**locally** [BFNGDNR18, BHF15, CC17a, DGMT17, FGLW18, JW15c, KHP17, Rag15, SLY16, TABR17, ZG18b].

**locally-cartesian** [FGLW18].

**locally-heated** [KHP17].

**location** [CCWY18, Fan19, PKLS17].

**loess** [Kla15].

**location** [CCWY18, Fan19, PKLS17].

**Loeve** [LC18, CN16].

**ollo** [Kla15].

**long-range** [LXL17, SG19].

**long-term** [FRW16, GZY16].

**long-time** [LIW18, OB17].

**loop** [HWK19, PCX17, PXXZ15].

**loosely** [Buk16].

**loosely-coupled** [Buk16].

**Lorentz** [GHJ15].

**lost** [GKR17].

**Low** [BKG15, CB15, DFL17, QKB18, STG17, AA16, AMJ17, AAD16, BDK17, BH16b, BLM17, Bon17, BDJP19, CL18, CPV16, CS16a, CVG18, CDV17, DWR18, DCP15, DLMDV18, Dom18, Eva18, FDK17, Fal16, FG18, FYO+15, HKLZ18, HK18a, HSA15, JLC18, KLC18, KS16b, KP15c, KYY+16, KYY+18, KV16, LTB16a, Lai17, LSWF16, LTL17a, LO16, MM16a, MA19, MVZ16, MB15, MA16, MD18, NMC15, OLHD17, RC18, SP15a, SK18, ZHA17a, ZWG17, ZWB+18].

**Low** [STG17, CS16a].

**low-density** [LTB16a].

**low-dimension** [BH16b].

**low-dispersion** [HK18a, JLC18, NMC15].

**low-dissipation** [HK18a, HWA15, JLC18, KV16, NMC15, ZHA17a].

**low-energy** [HSA15].

**low-fidelity** [AA16, LSWF16].

**low-Mach** [CPV16, Dom18, LT17a, MD18, SP15a].

**low-Mach-number** [MA16].

**low-memory** [MVZ16].

**low-order** [AMJ17, CCK+17, OLHD17].

**low-rank** [AAD16, BDK17, CL18, FDK17, FG18, HKLZ18, KS16b, Lai17, LO16].

**low-resolution** [QKB18].

**Low-Shapiro** [DFL17].

**low-storage** [CB15].

**lower** [AEL+15a, AEL+15b, HLQ16].

**lower** [AEL+15a, AEL+15b].

**lower** [HLQ16].

**lowest** [LTW18].

**lowest-order** [LTW18].

**LU** [LL16b].

**LU-SGS** [LL16b].

**Lubricated** [FR18].

**Luenberger** [CCM15].

**lumped** [BK16b, SM16].

**lumping** [Sir19].

**lunar** [HWH+16].

**lung** [MCH16].

**LUPOD** [RTV17].

**Lyapunov**
M [EH15, XS15, YLLH19]. MAC [ZZKF15]. MacCormack [ZB15]. Mach [BLMY17, Bon17, BDJP19, BKG15, CPV16, DLMDV18, Dom18, FP18, LT17a, MM16a, MA19, MDP+15, MBD15, MA16, MDAB18, SP15a, SK18, TD17, WDGW17, XDSX17]. Mach-number [Bon17]. Machado [Kat16]. Mach-number [BLMY17, Bon17, BDJP19, BKG15, CPV16, DLMDV18, Dom18, FP18, LT17a, MM16a, MA19, MDP+15, MBD15, MA16, MDAB18, SP15a, SK18, TD17, WDGW17, XDSX17]. Mach-number [Bon17].

[DZ16, RHS18, APKP16, ABH+19, BTGM17, BGT18, Bak16, BJH15, DZ18, GO15, HTZG17, KKLS17, MZAF17, PHHA18, PA19, PR16b, RMBN18, SC18a, VSM16a, VSM16b, YG18, ZSZ+17, ZD17]. **materials** [AIP17, BM16, CSY15, GHP15, HMBH15, KZ17, LD17, MGK17, PS15b, SNSG16, SU15, TAJ+17, VK15, YT17, KYKS19]. **Mathematical** [NLFM16, QS16, Lap16]. **matrices** [AAD16, GRMK15, SYM15]. **matrix** [AEL+17, BDBEE15, BHMS18, CDC17, CLP16a, DLY17, DH18b, EE16, For16, GFvR18, LL16a, LWLC17, LM15d, NMA15, Noe15, SWZ17, Teu15, VYP15, WDGW17, WLK+16, XL17b, ZLL17a]. **matrix-exponential** [SWZ17]. **matrix-free** [XLY15]. **matrix-valued** [LM15d]. **matter** [WTS+17]. **maximizing** [ES18, ZC18]. **Maximum** [BC16b, DY19, SWPS17, ADK+17, CHY16, CLTX15, GP16b, LSS16, MN16c, WYZZ18]. **Maximum-principle-preserving** [DY19, CLTX15]. **Maximum-principle-satisfying** [SWPS17, CHY16]. **Maxwell** [QHZ+15, ABH18, ABH+19, BK19a, BV15, BCB15, BCJL17, CW16, CCZC16, CHZ16, CQL+17, Chu17, CEF15, DDD17, De15, DGL+15, ETAG15, Fa16, GSN16, HKLZ18, HJZC17, HHY15, HLC19, Ism15, Ly19, MM16b, NBT19, PT17a, SP18, SZ15a, SOS19, SL16b, SC18b, SL16c, WR16, YJ17]. **MBAR** [XR17]. **MBAR-enhanced** [XR17]. **MBO** [JME18]. **MC-IP** [XWZ+18]. **MCMC** [AAPB17, BGL+17, CLM16, HYL17]. **MD** [WPB15]. **MD-DSMC** [WPB15]. **MDF** [Ger17]. **Meaningful** [Cos16]. **means** [ZBZ+18]. **measurements** [EST17, SNB+15]. **measures** [Opp17]. **mechanical** [GDFL17, KBG+15, KGP+17, LMC16, PD16b, YG18]. **mechanically** [ZSX17]. **mechanics** [BT17b, CGC17, DPRZ16, DPRZ17, FRL15, FFJ16, Jac17a, KGP+17, MSH+15, NRZS17, Sel15, VCEK19, YT17]. **mechanics-based** [KGP+17]. **mechanisms** [WTS+17]. **mechan** [FRW16]. **mechanico-chemical** [FRW16]. **media** [ABI17, AEVW18, An17, APKP16, BTGM17, BGT18, BDMC15, BPS17, BC18c, BCJ17, BS18G, BHMS18, BKKRB16, CHC18, CXY19, CLQ17, CEL+18b, CS17b, CM18d, CLNH15, CvKH16, CFcKH18, DSS18, FQZN18, FPT17, FYC+18, GFG+15, GH17a, Gsb18, GAS+18, HSK+15, HN17b, HLC19, JT18, KJ17a, KYKS19, KLRT15, LW18, LP16a, LH15, LT15, LMT17, LM15, MC18, MP15a, MVZ16, MT15, ML16, OLV16, PA19, PFI6, SSL17, SPX+18, SWML17, SMT+16, SC18b, SI16, TWH15, TAH16, VSD1W, VS17, Vos17, WC18, XL17, YJ17, YGEM17, YSY17, YB17, Zad11, ZI17b, ZWR16, dMRHJ17]. **Medium** [MSG18a, MSG18b, BM15, BK17, CM18, DcB17, GVCHH18, HMI17, Iw1a, LTKA15, LH17b, LROG18, LMC19, MSS16, NH17, QM18, ZF18]. **MEEVC** [PG17, dDPG19]. **melt** [RTO15]. **melts** [SB18]. **membrane** [CJY15, GGT18, MT15, TFGK18, XR17, YM17b]. **membranes** [LAA16, MTK17, RG15, RAMB15, SMA+16, SMOM+17]. **Memory** [SZ17, AMK17, DOO17, FYO+15, MBSS15, MVZ16, TP17, WLC15]. **memory-efficient** [DOO17]. **Memory-optimized** [SZ17]. **Mercer** [AABD15]. **merging** [KK17b]. **Mesh**
[BV15, GPAO+18, LS15c, PSB+18, PWC18a, SL18, SW18a, Sla16, WBBC16, APP+16, AB16a, AMS17, ALO18, BHZ16, BOA17, BAD19, BHS+18, BSM16, BD16, CGL18, CTJ+17, CWW17, CHJT17, DRP+16, DwV15b, DHH+18, DMS17, FHY+19, Fd17, FGB15, FP16, FNNB19, GBR15, GBvZB16, GSM17, HS17a, HIN+16, HLL+16, HDA+18, HLL+16, HDA+18, HMS19, HK15b, HW16c, IZ18, JW15c, KF15, KAR17, KLRT15, KJ18, KS17, LSLA16, LS16b, LNM15, Lz17, MLM18, MW17b, MLB18, MSB+16, NH17, NSB15, OKWE17, OD15, QYJ19, RBJS15, RPNP18, SRB017, Say17a, Say17b, SKS17, SW15, SlDT18, SFP16, Sub15, SJX17, SZS15, TVB+16, WQZ15, WDS15, WKO17, Wil18, WCT18, WHZ18, XLI17a, YHQ15, YGJ18, ZL15b, ZZ17b, ZJ18, ZHLZ18, ZL15c, dAc17, Mas18].

mesh-decoupled [OD15].

Mesh-free [SW18a, Sla16]. mesh-induced [HDA+18]. mesh-to-mesh [WKOE17]. meshes [APP+16, AAE17, AT16, AM17b, ADOP18, BCST17, BD15a, BD15b, Bal15, Bar18, BKO18, BT16, BDZ15, BD17, BDLM18, BD18, BRW15, BCM18a, CFSN18, CGK17, CWM+16, CW19, CHY16, CSN17, CLTX15, CVX19, CCM17, DSH+16, DC18a, DwV15b, DY19, DL16, DMTB15, EDvW17, FLHA17, GM19, GK18, Her16, HR17, Ism15, IM15, JBL15, KKLS15, KDPK15, LLD+16, LS16a, LG15, LLLP+16, LYC16, LL16b, LLJ18, LJ16, LS218, LTW18, LMN18, MSD+17, MMvR18, MHS16, MBW+15b, MW17b, MM17, PX16, PM16, PR17a, PL16b, DDM18, QDH15, RB18, Rag15, RGW16, SAEF17, SL17, SWMD17a, SWMD17b, SWLZ15, SYM17, SSX16, SDW18, TLQ15, TD16a, TD17, TD18, TC15b, TLR16, TMB+18, Tso18, VST16, WWR16, WHY17, WHY18, WGWG17, WGWG18, XP15, YK18, ZZZ17, ZLFW18, ZPW18, ZQ17, ZXD17]. meshfree [AS17, SMLB15, ZZZ17, ZLFW18, ZPW18, ZQ17, ZXD17].


Method [ACGR15, BQCG17, CE17, Chu17, GFG+15, LFR17, MC15, PMF+18, RKO+17b, SMAG17, WZ18a, ABI17, AM17a, ARG+17, AM18, AASRT17, ABG+15, AR16a, APR+15, AG19, ACCCD16, ACCCD+17, ALKZ16, ASB+15, AB16a, AMS17, AB18, ASS13, ASS17, Alm19, AP16, AGB18, ADK+17, ACS16, ACJ17, Ani19, AT18, AB15, AbDC+18, AAPB17, AB17, ALTR17, ANL+16, AJVH17, AG18, AEVW19, BCSK17, BJRF18, BC18a, BK17a, BM15, BFI+16, BZ16a, BXY17, BDG+17, BJWZ17, BRK+18, BV15, BLA+15, BBF+17, BAT17, BST+18, BTB16, BB18, BKn18, BCl16a, BZ15, BCI6b, BMT18, BBKS18, BS15b, BVS18, BAR15, BGG16, BFT17, BTA17, BKKJ17, BHTT17, BPD19, BLC+17, BPM18, BHF15, BTWY15, BC16d, BF7VC18, CQ16, Cai16, CZW17, CGQ18, CD16+16, CCHL15,
CL18, Cap18, CFO18, CHT17, CDM18, CGMH18, CTJ+17, CW17. method [CJD+17, CDDL19, CXH15, CCGZ16, CXL16, CXX16, C216, CX16, CH17, CZ17, CL17, CWWZ17, Che18, CYL+16, CYYL18, C3L18, COV18, CSG17, CDN17, CLR15, CMLD18, Cho15, CLL17, CFST16, CBN+16, CLQ17, CELZ18, CEL18a, CVG18, CFF18, CPS17, CSK+16, CCL16, CSH15, CLM15, CV16b, CM18d, CM16b, CLP16b, CLMZ17, CYWL17, CLNH15, Cvh16, C2vKH16, DM17a, DD17a, DMAM15, De18, DM16, DCA+16, DJV+18, DLM18, DC18a, DKPC15, Del15, DDV18, DGMT17, DG16b, DZ16, DZA18, DS16, Did17, DLR15, DLNR18, DF16, DHI18a, DMS17, Dod17, DAO17, DVP+16, DWI15, DLL+17, DY19, DL16, DvWZ18, EDC16, ESHA16, EL17, EKS15, EKEB16, ELM+16, F18, FGL16, FBL17, Fal16, Fan19, FHS17, FMZ17, FG16, FCL17, FBF15, FNP17, FGLB16, FB16, FB15, FNNB19, FLV18, FG19]. method [FLHA17, FHA17a, FSM16, FP18, GSN16, GM19, GB15b, GP17, GH15, Gam15, GZ16, GH17a, GFC18, GP16a, GLTB18, GPS17a, GPS17b, GSI18, GHP15, GWC17, GG15, GBC+18, GBD17, GNK18a, GNK18b, GN16, GD19, GWWC17, GVCH18, GEZK16, GHJ15, GZ18, GWYS18, GTG15, GY15, GFW16, GHH+16, GY18, GY19, GP16c, GL17, HP18, HK19, HL16a, HHA15, HWH+16, HXXL15, HS17a, HR15, HB16, HZL+15, HLL+16, HG17, HGW18, HKI17, HWI16a, HP17, HM16a, HR17, HHG15, HMH15, HL16b, HGN17a, HGN17b, HJZC17, HN17a, HN17b, HN18, HMF18, HM19, HSC16, HCV18, HF18, HHL17, HZ17, HLU15, HLY15, HJ16, HLSY16, HXX18, HC17, HY15, HHY15, HZ15, HSSZ16, HHY16, HW16c, HLL+18, HMRG16, Hwa16, H15, H17, IKI15, IML15, IM17a, ION+17, JAH19, JL17a, JB19, JKE+17, JSS15, JPLL15, JW16]. method [JLC15, JST17, JT18, JL18b, JLLZ15, JL17c, JLF17, JGS16, JTD16, JJ17, KKH18, KTN15, KKS16, KNS15, KC17b, KLSF15, KJI17a, KH15, KP15a, KKJB16, KJYC17, KL17b, KP18, KLC18, uKHGK19, KDL15, KR17, KO17, KLN17, KCS+17, KP15c, KK17b, KLGO18, KS16d, KQW17, KM15, LT16a, LS15a, LMS17, LLLD+16, LY15a, LM15b, LFRH17, LMG15, LML+16, LC15, LAL18, LM18, LPW15, LH15, LLS15, LFPD16, LBZA16, LW17c, Li17, LLLL18, LBTK18, LGH+18, LY18, LMBZ15, LXL17, LC17a, Lia16, L2T17, LLLN16, LNS17, LSD+17, LHY+19, LMM16, LT16b, LC16, LC17b, LD15, LDZ15, LST+15, LY16c, LY16b, LW16b, LW16a, LW17c, LTXB17, LYY18, LW18, LM19, LYP17, LHGF16, LQB16, LT17c, LZW+17, LHA15b, LSYF15, LP17a, LWC17, LRGO18, LWTF19, LMGG17, MMN16, MD17, MD18, Mac16, MC18, MAK15, MZAF17, MS18a, MS18b, MVMV16, MS16b, MM18]. method [MG17, MK15, MDL16, MA19, MA17, MO18a, MST15, MK18, MMv18, MPFL16, MRZ16, MGHM+15, MBST17, MTK15, MK17, MBDB15, MCS16, Moh15, Moo17, MF16b, MLL18, MTK+16, MLM17, MDAB18, ML16, MWC216, MN16c, MH17, MM16d, MM18, NVBDV15, NWKC16, NPMC15, NJHL18, NS19, NLK+15, NN18, Nis18a, Nis18b, Noe15, NS16, NLW+16, OT15, Ols15, OPHA15, OD15, PZNG15, PKLC16, PKLC17,
PHHR17, PDoG+17, PNZ18, PHHA18, PGCG18, PLC18, PL16a, PL18, PCF15, PSS+18, PK17, PJC16, PLLC16, Par18b, PWCI8a, PKB15, PN18, PR16a, PR16b, PLL15b, PGGW18, PF16, PS15b, PR16c, PLR18, PTT18, PBKK17, PMB18, PG18, PZF16, PSP16, QWX18, QYJ19, RTG18, RB18, RVZB15, RBJS15, RG15, RS16b, RWG18, RW15b, RMLvR18, RZ17, RKGW17, RSG15, RXS16, RMBN18, RAMB15]. method [RTO15, RMC15, Run18, RPC+18, RSB15, SY17, SPX+18, SWC18, SXBB15, SW17, SPD+17, SPB17, SSL+16a, SSVL18, SGMS16, SHA16, SWG+17, SKF15, SKF16, SBG+17, SHKL16, STKL19, SAK18, SF18a, SM+16, SRBB18, ST17, Sha17b, SPB18, SWMD17a, SWMD17b, SMP16, SWZ15, SW16, SwS16, STV18, SL15, SW15, SZ+16, SSM17, Sh117, SL16a, ST18b, SP16b, SL16, SMA+16, SCS16, SYM17, SLVE18, SW18b, SGD18, SO17, SMD18b, SPP16b, SMLB15, SA15, SBH19, SSA17, SZ15b, SDW16, SZ17, SNSR18, ST18c, SS16c, SMOM+17, SHW18, SGT16, SGT17, SF16, SHP+16, SCLG15, Stü17, SL16b, SC18b, SPCH16, SWZ17, SWZW19, Sub15, SLZ+17, SG17b, SCS18, TWD17, TCB17, TH18, TW17, TMWF18, TD16a, TD17, T17, TAH16, TST+15, TXKvdV15, TXKvdV16, TLLF15, TRL15, TOR+15, TT16, Tow18]. method [TO15, TMH18, TLB+18, TKF17, URG16, VBG16, VCNGP15, VCNOP18, VBF15, Vog17, VK16, Vre17, Wac15, WG16a, WY17, WW15, WZ15, WSS+15, WDS15, WE15, WXW1S, WSY16, WRL16a, WRL16b, WRPL17, WLLW17, WW17, WCH+17, WMY18, WLE17, WMYG16, WSN+15, WPB15, WSO16, WMS18, WHE17, WHEK18, WR16, WGG17, WSOW16, WCC16, WZRZ15, WH16b, WL16, WYA+17a, WYA+17b, WTX17, WA18, WHZ18, XJ18, XLY15, X15, XZ15, XX16, XDSX17, XX17, XXR18, XY18, XY17, XP15, XHC15, XL17b, XXW17, XSL18, XLY16, XM18, YY16, YSS+17, YC15, Yn16a, YCPD15, YHQ15, YS15, YXF+16, YY16, YYN+17, YFJ17, YS17, YZW17, YHCPF17, YZ+18, YG17, YM17b, Y18, YXX+16, YY15, Y15, Y17, Y17, Y17, Y17, Y17, Y17, Y17, Y17, Y17, Y17, Y17, ZL15a, ZL15b, Z15b, Z15a, ZL15b]. method [ZLL16a, ZLL16b, ZLL16a, ZZ+17, ZZZ17, Z17b, Z17, ZHA17a, ZJ18, ZC18, ZG18a, ZMCC18, ZF18, ZLF18, ZY19, ZZC19, ZVO15, BZBT17, ZY17, ZSX17, ZYCK16, ZGD+16, ZZW+16, ZCL17, ZRT18, ZL15c, ZLC17, ZHW18, ZK18, aKT16, dLDG+18, dLLK19, dTP16, dHC16, dLLJLV16, BD17, CGJ16, FPT17, GBS15, GAS+18, GLT15, HWK19, LVTR15, Mu18, RRS18, RMF+18, SRS19, TSFS17, TBLJ15, VAL16, dPSS16]. method-of-lines [SWMD17a, SWMD17b]. methodology [Cac15a, Cac15b, DLK17, FKL17, KYUO15, LSSM17, MNG15a, MJ16, MN18b, PBA+15, RLV16, RDM15]. Methods [FFW17, JHPAT17, AAG16, AW18, And16, ADH+16, ALT17, AC16, AL18, AAPP17, AL16, BH16a, BM+16, BGN19, BHD18, BDM17, BAVC17, BVT18, BGG15, BCJ17, BZ18, BK16b, BD18, B10, CLW18, CC15, CDL17, CGL18, CWM+16, Cha18, CE18, CW19, CC18, CQ15, CHZ16,
methods [HS15b, HDF15, IC17, JZX18, JW15b, JL15, JX15, JZ16, JL17, JYY18, JYLc, JW16, JX15, JBLO15, JFS17, JSY15, KTK15, KS16a, KDF15, KMS+18, KPKG15, KA15, KADE17, KE15, KK17a, Kio15, KRFV16, KG15, KS15b, LSMS17, LBTCG16, LH17a, Lau17, SL15, LPW15, LE16, LW17a, LW18, LCY16, LW17b, LPR18, LX18, LYZ15, LY15b, LL16c, LGB16, LP16b, LJ16, LSZ18, LMB18, LKSM17, LYA16, Lot18, LLLN18, LH15, LP17b, LSI16, MM16a, MRM16, MGT18, MS16a, MK17, MCW16, MNG15b, MVK16, MAP17, MDHC15, MW16b, MW17a, MD15+15, MJ17, MBG16, M156b, MBKHT17, Moc17, MW17b, ML18, MSP15, NdLPCC19, NJ15, NPC15, NDCB17, NN15a, NGY+17, Nor15, ODLN17, OWKE16, OKWE17, PP18a, PR17a, Pea15, PT18, PAFT19, PG18, DMD18, PR17b, PV17, PQS+19, QSY16, QDH15, RFPSSA18]. methods [RFGSV15, RT16, RS18, RHvR+15, RMF+19, RW18, SG16, SN16, SCN+17, Say17a, Say17b, SLH18, SWML17, SZ15a, SC18a, SW18a, SS15b, SLL16, SY18a, Shu16, SD1+17, St18, SX15, SE16, SG16, St16, SL16c, SZ18, Suz18, TSC17, TK15a, TMT17, Tea16, TL15, Ts15, Tsa16, UL16, VPV+17, Vee16, VN15, VVV17, WC16, WJD16, WDC16, WSN+18, WML17, XWB15, YSY17, YYL18, Y18b, ZK15, ZM16a, ZJL16, ZT17, ZH15, ZZT+16, ZXL17, dFV15, dFJ16, dGC16, CEH16]. Metric [CGL18, SYV17, CCW18, SYV14, VLAB18]. Metric-based [CGL18, VLAB18]. metrics [KFL15, LTR16]. MHD [BD15a, BBK16, BK17c, CS16a, DWG16, DWG17, DWG+18, FS18, HIN+16, LZ17a, LSZ18, MHHX16, PNZ18, PE15, SY18b, WG16b, WDG17, WRL18, YFJ17, YFJ18, ZSL+19]. MIB [GZ17]. micro [EN17, HKH+16, MKV+17, SN15, SRBB18, SCQ16, WP15]. micro-devices [WP15]. micro-flow [HKH+16]. micro-layer [SN15]. micro-scale [SRBB18]. micro-swimmers [SCQ16]. microchannels [GZ+17]. microdomain [AZ17]. microflow [HLQ16]. microfluidic [LZ15b]. microphysical [SNB+15]. microscale [BRK17]. Microscopic [VS17, FHE15]. microsphere [LZ15b]. microstructure [CPT16, LMM17]. microstructures [HS17a]. microswimmers [Str17]. microwave [BP+16, HK16b, NOM+17, PKLS17]. midpoint [EMSS17, WH16a]. Mie [GH15]. migration [LZ15b, MM16, Par15]. MILU [PKJ+18]. Mima [HK15a]. mimetic [GL17, KL17b, KD17b, LPG18, LP18, LMS16, OvdHV16, PKF16, PG17, Pei16, TC15b]. Minimal [BTD16, LKN17, MP15b, PCX17, WC18, ZD15a]. minimalism [OSK18].
minimax [HPV16]. Minimisation [Jou15]. minimization [BHZ16, CEL18a, GLZ16, GNZ18, JES15, LL16a, LT17c, PHD16, Tav15, VCE19].

Minimizing [Iwa15, Sto16, ZM16b]. Minimum [CGM18, CM15, RSB16, WY17, WA18]. miscibility [KS16c]. miscible [BST+18, CXY19, LW17a, SHL+15, SWML17, TGY18]. Mixed [DS16, DH18a, Fal16, MF16a, RBL16, AVT17, ABN15, AGRB18, BNS17, BSM16, CWF16, Cha16, GS15b, GVTQ16, JL17b, KK15, LFG18, LP18, LFR18, Mei18, MJ17, MR16b, NPI15, RB15, SPB17, SY18a, SW18b, SHW18, YK18].

Mixed-hybrid [MF16a, AVT17]. mixed-primal [AGRB18]. mixers [MKV+17, CXY19, LW17a, SHLG15, SWML17, TGY18]. Mixed [DS16, DH18a, Fal16, MF16a, RBL16, AVT17, ABN15, AGRB18, BNS17, BSM16, CWF16, Cha16, GS15b, GVTQ16, JL17b, KK15, LFG18, LP18, LFR18, Mei18, MJ17, MR16b, NPI15, RB15, SPB17, SY18a, SW18b, SHW18, YK18].

Mixed-primal [AGRB18]. mixing [SMD18a, BLG+16, ES18, WSN+15]. mixture [CZB15, PS14, PS15a]. mixture-energy-consistent [PS14, PS15a]. mixtures [HHM17, KL17a, ZYSW16, Zoh17]. MLC [BZ19]. MLFMM [XB18]. MLFMM-based [XB18]. MLMD [IBML16]. MLRPI [HSC16]. MMALE [CZJ17]. mobile [BVM17b, RZ15]. mobility [BDPM18, DD16a, EJZ17, MS17]. Modal [HB15b, GTL18, SZ15a]. mode [FCW+18, IG15, KH18, LWY18, ZLL16b, ZLL17a]. Model [BHST17a, JL18b, LMP15, NP16, SS15a, Sch16a, ARF18, AASPT18, AAG16, ABG+18b, ASB+15, AEL+15a, AEL+15b, AMB17, AEVV18, AZ16, AP16, Ana15, Ana18, APT17, ABH+19, ADNH15, Ani16, AMM+15, BJQ18, BHDI18, BFI+18, BIR18, BHI6b, BM16, BVM17b, BTVB15, BLG+16, BCG+15, BG16b, BTVC16, CF15, CBA17, CCS18, CPT16, CCP19, CS16a, CL16, CLY+15, CJY15, CZH+15, CY17, CB19, CGS15, CEH16, CV16a, CHS17, CDV17, CGG18, DG16a, DLP19, DPK17, DKT15, DCD18, DWH15, DKC15, EL18, FB17, FST15, FMPT18, FK17, FKY15, GHM15, GMS16, GFL17, GCVCH18, GT18, GMR18, HFD18, HXL15, HX16, HK15a, HCVH18, HLU15, HQL16, HW15c, HW16b, HW18, Hwa16, HY17, Id16, IG15, Jac17a, JRPPS18, JL15, JD19, JS17, JI18a, KM16a, KCL17a, KL17a, KHP17, KK17a, Kor17]. model [KBG+15, KGP+17, KDP15, KKK+18, LVB+15, LP18, LZ18, LS15c, LZA+17, LT17a, LWY17, LHM18, LLY18, LZT+15, LXSC16, LDG16, LH+17, MMN16, MNG15b, MP17, MP15b, MGB+18, MCHL16, MAA18, NMS17, NFG15, NMA15, NPC+17, NWKC16, NZW18, OS16, PD17, PM16, PS14, PS15a, PMGW16, PRvdL18, RBY19, RMR15, RH15, SL16b, SK19a, SRBO17, SN15, SPD+17, SA16, SAH17, SRBB18, SD17, SY15, SLB+16, SS16c, SZ15s, TP16a, TGY18, TTN+16, TS17, TD16b, VST16, VMM19, VCNP15, WMY16, WW17, WSN+15, XWW+16, XYY+17, XZZ15, YFK15, YCB15, Yan16b, YH17, YZ17, Yan17, Yas17, YP17, YY17, YCS+17, ZL15a, ZC15, ZYS16, ZHWQ18, ZXL17, ZWB+18, ZR17, ZWUR16, ZK18, dSPPD15, dPSS16, tEDKT17, ALA16, JL17b].

model-based [FK17]. model-form [XWW+16]. model-order [ZWUR16, dPSS16]. modeled [STG17]. Modeling [BBMN18, CSY15, DD17a, D15, HFM17, PKP+17, PMS15, SLS17, TK16, AASRT17, ANL+16, BB17, BLL16, BMR+16, BH16b, BHG18, BHT17, CFG16, CW16, CP16, CLvS17, CFPB17, DSS18, DId17, DDH+18, FB17, FSK+16, Fuji9, GHI7a,
modelled [Mue18]. Modelling [LZ15b, RPNP18, RZ15, YXF +16, ABG +15, BC18a, BPGS16, BHMS18, BB15, DLLV17, FBC +16, KMS +18, LL19, Mel18, MM16c, SS16a, SWS +18, SZF15, TAJ +17, YSC +17]. Models [CS18b, ABP +16, AAI16, ASF16, BTD16, BKS18, BLVC17, BH16b, BFNGDNR18, BCC +18, BK16b, BKRB15, CT15, CDM +16, CCS18, CGK17, CS16c, CKQT15, CCM15, CMR +16, DD17b, DHH +18, FOFI15, FPT17, Gri15, Gri19, GH17b, HAPK15, Hig15, HLQ16, KMD +18, KKP15, KL17a, KS16b, KBF17, LM15a, LK17, LPW15, LLL16, LTZW18, LPBR15, LPR19, MHX16, MCN18, MXL16, MPP15, MRX17, MTL +17, MLS16, Niu16, OTS17, PKW17, PT17b, RK18, RKN19, RS15b, RBL16, SZY16, SGC +17, SFDE15, SSO +15, SAG +15, TYD16, TSB +18, TB18, VM15, VBG +17a, WJ16, WDJ16, WTL17, WX17, XTS +16, YNW17, ZA15a, dBIM16, dLGC1A17, DCP15]. moderate [XTYL18]. modern [GFA +16]. modes [VMN +18, GYZ19, KP15c, TBHG18, Tre16, WYLX17]. Modification [BK17a, Lau17, Ols15]. modifications [WS16]. Modified [BDMC15, BTA17, MTJ17, SW17b, WZ18a, ADOP18, HS18b, KDL15, LL19, PK15b, PR16c, RFPSSA18, SwS16, Sva15, XJ16, ZLL16a, ZLL16b]. module [SDH +16, SKG17]. MoF [CZ16, CZ17, QYJ19]. moist [ZA15a]. molecular [BBW16, BTT17, CGC17, CSB16, Dav10, Dav15, DZ18, DFS16, FPASS16, Gen15, JLFK17, KBB15b, MD15, QS16, RS17, ST15, SMA17, SOW17, TPT17, WYLX17, WTS +17, YSWW16, YT17, YZW17, YZW +18, ZL17, ZD17, ZHWW18]. molecule [Vai15]. molecules [ELH +16, LAA16, RKL18, SZCL18]. mollified [FHS17]. Moment [ABM16, LGB17, RKO +17b, ZM16b, AS15, CSN18, DPW +15, GHH15, HLQ16, LN17, LH18, Nor15, SB17, SGP17b, TC15a, TKC15, TLQ16, WYA +17a, WYA +17b, XX16, XDX17, JSS15, MKC17]. Moment-Based [ABM16, DPW +15, TC15a, TKC15, TLQ16]. Moment-of-fluid [LGB17, JSS15]. moments [DC18a, FLV18, HKLZ18, STR15, SL16a, SGP17b, ZLX17, PMF +18]. Momentum [IBML16, ALTR17, BDAA +18, Bra16a, DL15, DS15d, JST17, KDL15, LBZA16, LM16, MR17, MBD15, MFG15, OD17, RKB15, TCSM15]. momentum-weighted [BDAA +18]. monatomic [WZ1RZ15]. Monge [DL17, WBB16]. Monodomain [CGG18, LZT +15, VLP +16]. monoenergetic [GMP16]. Monolithic [LRG018, BVMW16, BZ16b, CM16a, PKLC16, PKLC17, PLC18, PAL +16, ZS16, dLKK19]. monotonic [ZA15b]. monotonicity [DVW15b, MG15a]. monotonicity-preserving

Multi-fidelity [PVPK17, ZLX17, LKK17b, PPCK17, RPK17a, RKN19, RS17, ZYK18].

Multi-Fluid [SDM +17, LLD +16, NFG15, PN18, SS16c]. Multi-frequency [Par15, NKN +17, Par17, ZZ17a, ZF18]. multi-grid [LML +16, LLM17].

multi-layer [BZ19, KHP17, SD16]. Multi-level [HSM19, MSS16, KC18, LYY18, LLY15, IBML16]. multi-material [HTZG17, KKL17, MZAF17, PHHA18, VSM16a, VSM16b]. multi-medium [HSM19, MSS16, KC18, LYB18, LLY15, IBML16].

multi-material [HTZG17, KKL17, MZAF17, PHHA18, VSM16a, VSM16b]. multi-medium [HSM19, MSS16, KC18, LYB18, LLY15, IBML16].

multi-mesh [WHZ18]. multi-moment [LH18, Nor15, XX16, XDSX17], multi-output [ZKS +15]. multi-particle [LKB15].


Multidimensional [BD15b, BN17, SWMD17a, SWMD17b, SS17c, BD15a, BAGK16, BK16a, BTG17, BK17b, BTGM18, BK19a, BLD15, BDM18, DLM18, EQ17, KD17a, Kay15, KS15a, MD18, MS15b, Mas18, SJX17, SW16].

multidimensional-like [KD17a]. multidimensions [DLNR18].

multidomain [OVP15]. multifidelity [SGC +18a]. multifluids [SWPS17]. multifractal [RWG18]. multifrequency [TWM18]. multifrequency-grey [TWM18]. Multigrid [JX15, LMJ18, RM16, ANL +16, BCT +18, BCB17, CXX16, CGC17, CR18, CV16b, EJMI18, FGL18, HF18, KLGQ18, ILLNS16, ILNS17, LRGO18, MR17, MM16c, MDDM17, PHHR17, Pop15, RWG18, RRMM +19, RWN18, DD16c, STH16, WMYG16, YM17a, Y18].

Multigrid-based [RM16, CV16b]. multigrid-framework [MR17].

multiparticle [PGH15]. Multiparticle [AWS16]. Multiphase
Multiple 

BW18a, CDX18b, EARA15, Hig15, PBC17, AN15, CC16a, CCZC16, CB19, DNBH15, FBL17, HMRG16, LK16a, LY16a, LVL18, OMYvdP15, PKW17, RC18, SGA15, WBC16, WCT18, XB18, Xie15, YNW17, ZZDB15].

Multiple-correction [PBC17].

multiple-direction [LK16a].

multiple-reflection [XB18].

multiple-relaxation-time [FBL17, Xie15].

Multiple-resolution [CDX18b, OMYvdP15].

multiple-scale [LY16a].

multiple-species [SGA15].

Multiple-time-stepping [EARA15].

multiply [HN17a].

multipole-to-local [YS18a].

Multiphysics

[JS16, CGM15, Sla16, TT17b].

Multiple

[BDPM18, Don18, WSHT15, WX17, YD18, APP16, APT17, BJ15, CZL15, CD17, CM16b, CLNH15, CvKH16, DM17a, DIX18, DB16a, Don17, FBL17, HFM17, HG17, HW16b, HW18, IM17a, JT18, KP15a, KRK18, LK17, LRA17, LT15, LHT17, LHA15b, MHL17, MF16a, OD17, PN17, RW15a, RJ19, STW16, SCI18, SPW18, TP16a, Vos17, WSY15, WSS15, WXY17, WCH17, YXF16, YCS17, ZN18, dFVJ15].

Multiphysics

[JS16, CGM15, Sla16, TT17b].

Multiple

[BDPM18, Don18, WSHT15, WX17, YD18, APP16, APT17, BJ15, CZL15, CD17, CM16b, CLNH15, CvKH16, DM17a, DIX18, DB16a, Don17, FBL17, HFM17, HG17, HW16b, HW18, IM17a, JT18, KP15a, KRK18, LK17, LRA17, LT15, LHT17, LHA15b, MHL17, MF16a, OD17, PN17, RW15a, RJ19, STW16, SCI18, SPW18, TP16a, Vos17, WSY15, WSS15, WXY17, WCH17, YXF16, YCS17, ZN18, dFVJ15].
CB18b, MTJ18, PKLC16, PKLC17, SL17, WSF17]. Navier
[HW15a, AD15, ALL18, AB17, BTD16, BTB15, BPD19, BHF15, BC16c,
CHOR17, CS16c, CYL+16, CYYL18, CDN17, CCKQ15, CLP16b, Du18,
FWK17, FBW16, GNK18b, GTG15, HPY18, HGW18, HTMP17, JPSX18,
LM18, Ler16, LXC+15, LZZ+17, LT17a, LMHB18, LM16, MS18b, MLM18,
MPFL16, MS18c, MHS16, MR16b, MN18c, NN19, OvdHVH16, PG17,
PXL16, PX16, PCN15a, PCN15b, Pca15, PND16, PDRB17, PPB15,
PMB18, RDM15, SLH15, SMS16, SLY+16, SE16, Stü15, Stü17,
SVä15, TD16a, TD17, TXKvdV15, TXKvdV16, UL16, KY17, WR15, WZ18a,
XWW+16, YC17, YTW15, Zha17c, ZLF18]. Near [LWZ16, AM18, CV15,
KW15b, LW15a, Liu16, LZL+17, MS17, Ols15, RPNP18, ST16, SX16].
near-boundary [Ols15]. near-coplanar [KW15b]. Near-field [LWZ16, LW15a].
near-limit [LZL+17]. near-optimal [AM18]. near-wall [MS17].
Nearest [GKMS17, Smi18]. Nearest-neighbor [GKMS17].
neutral-fractional [Luc15]. neutron [ACJ17, BABD16, BCG+15, CSK+16, HL16b, JPLL15, Lau17,
LB8+17, OWKE16, WKOI17, ZCL17]. neutron/photon [BCG+15].
Neumann [JTD16, ABN15, BK17b, BK19a, Cha16, DGH17, GBD17, MK15, PK+18, PS17, WSY16].
Newton [FB+16, HU18, RPK19, RH18, TB18]. neuromechanics [PPB18].
neutral [Ama15, Ama18, DDD17, Foa16, GMP16, GBD+15, KKS15, KKS16, Luc15,
TSFS17]. neutral-fractional [Luc15]. Newtonian [AB17, ALTR17, LSMS17, PKN17, YSY17, ZHL18].
Newtonian [AS16, CSB17, DPRZ17, RV16, STK19, TL17, ZLC+18]. NFFT [NPP15].
Nicolson [FBF15, HYL17]. NILSS [NW17]. nile [DWD+18]. nine-wave
[DWG+18]. Nitsche [GY18, JGS16, Z8X17]. NLT [YXX+16]. NN [SW17b].
no [YS18b, dDGP19]. no-slip [YS18b, dDGP19]. Nodal
[QDH15, CM18c, EKE16, FCL17, GK16, LWLC17, LSTk15, TVB+16,
WWGK17, XJL15, ZS16]. node [JPLL15, PG18, SGP17b, ZY17]. nodes
[GZLK19, PR17a]. Noh [VW18, VGZ18]. Noise [YR15, CHZ16, CVG18,
CHL17, DWR18, HJZC17, KH15, MGT18, ZLL17a, ZPE+16, ZRE16].
Noise-induced [YR15]. noisy
[CWL+16, RPK17a, SWXY18, SF16, SS18c, YM19]. Non
[ALMJ15, CZBC+18, CEL+18b, HU18, PT17a, RS18, RR16, vdBK17,
AMH+18, AD15, ACCC+17, ADGN17, ALKZ16, AS17, AB16a, AZ16,
ABFR16, AB15, Bat17, BLVC16, BWR15, Blö17, CMP19, CC17b, CKK18b,
CFF18, CS15, CyWY16, DL19, DR15, DKTH15, Dom18, DB18, DB16b,
non-adiabatic [BLVC16]. non-aligned [KKLS17]. non-blocking [LH15].
Non-body-fitted [CZBC+18]. non-canonical [ZT16]. non-classical [Spe15].
non-dissipative [AMH+18]. non-equidistant [WWR17].
non-equilibrium [BWR15, CwY+S16, DRM15, GMLD18, HF17, HKKP16, MPP15, STR15, WMS18]. non-flat [KJYC17]. non-Fourier [ST15].
non-Gaussian [ZFPB16]. non-graded [Bat17]. non-gradient [GMA18].
non-isothermal [BLVC16, XML17]. non-iterative [TKF17, YS15].
Non-linear [ALMJ15, AD15, ALKZ16, GN16, HYK+16, KZR15, PK17, SCC19, YHKPF17]. Non-local [CEL+18b, DKK15, SSL+16a, dHC16].
non-locality [MK17]. non-matching [FKS19, LLJ18]. non-Newtonian [AS17, CSB15, ZLC+18]. Non-normal [RS18]. non-oscillatory [CKK18b, DB18, HWA15, HY16, LJ16, SK18, ZPW18, ZQ17].
nonhydrosstatic [SZ15, YI18]. nonisothermal [BMT18, KSB18].
Nonlinear [BGM16, LT15, DPSS16, ACJ17, ATZ16, ABR16. ALT17, AEAM15, ANL+16, BM15, BHKS16, BJTZ15, VMN+18, BM16, BK18, BCZ17, CBA17, CRM16, CGHI18, CS16b, CLP16a, CG18b, CHLZ17, DSS18, DLL+17, EAAM15, EKBE16, FW18, FSW17, FB15, FK16, GS15c, GFL17, Gno17, GW17, GXX17, GP16c, HDbH+16, BU18, HHC15, HAH16, HU15, KM17, KM16b, KC17c, LMS17, LM15a, LL19, LZ16, YLC16, LGH+18, LZ17b, LLZ15, LW17d, LIW18, LYDB17,
nonlinear \[ZVO15\]. Nonlinearly \[YSY17\]. Nonlocal \[MGT18, ATZ16, BJTZ15, CP16, DWW15, DY17, DJLQ18, EMZ16, SMD18b, VCNOP18, WW17, XJ16, ZGJ16, ZK18\]. nonoscillatory \[BR17, HBR15, YC17\]. nonparametric \[LZ18\]. nonplanar \[DD16b, WHY18\]. nonseparable \[ZKS15\]. nonsmooth \[XY18\]. nonsymmetric \[EJMI18\]. nonuniform \[BJTZ15, JL17a, DV17\]. norm \[BD16, CM15, CGM18, DBZ17, Mat17, MAvdW18, MO18b\]. norm-oriented \[BD16\]. normal \[IM15, RS18\]. normalized \[HK16b, Rua18\]. note \[AM17b, HS17b, Sir19, Ten15, YY16, ZW15\]. Novel \[Mue18, RC18, BTBV15, BND16, DC18b, DWGW16, DWGW17, DwWZ18, FFJT16, FLHA17, HY17, JKLF17, KD17a, KM15, LAEK18, DV17, MMvR18, PN17, TCL15, VST16, WS16, XTYL18, YTW15, ZL15c, ZRE16\]. nuclear \[AbdC18, DDJ17, GDS16, HBC17, M15, MDAB18, NL18a, Pan15, RFGSV15, SP15a, SK18, SY18a, SYM15, SPW18, SS18c, SJH15, SCS18, TCS17, TT17b, TMT17, WH15, WMY18, WL17, WHT18, YSC17, YYN17, YNW17, YL15, YJB18, YL17, ZK15\]. number/compressible \[MDAB18\]. numbers \[FMPT18, JdR18, KJI17b, TD17, XTYL18\]. Numerical \[APR15, ALA16, BLVC16, BTT18, CRW16, CCZ18, CPSF17, CC17c, CCZ15, CVK16, CV16a, DGLV17, DGHP17, DNOP15, DwWZ18, HGR16, HB16, HX16, KS16b, KYW15, KYW15, KW15a, LLVF15, LMM17, LAA16, LM15d, Mac15, MSG18a, MSG18b, MR16a, MC15, MFB18, NKN17, OTS17, OMYvdP15, PM16, PVS18, RS15a, RF18, STKH15, SAF19, SDFA17, Str17, SS17c, SZCL18, TBHG18, Tou15, WHL17, WL18, WSH19, YSWW16, YZW17, YY17, ZB15, ZS17b, ZZPH18b, ZLL18a, ZLL17b, ZS17, dLDG18, ABI17, AAG16, ABG18b, ASB15, ADH16, AM17b, BCB15, BS15a, BDDEE15, BR15a, BCC18, BK16b, Bre18, BC16d, CM15, CW16, CWL16, CY17, CSG17, CLGA17, CEL15, DM15a, DS15a, DDJ19, DSS18, DLNR18, Dod17, Don15b, DLS15, DL18c, DBMB15, EH14, EH15, FNGV18, FW17, FB15, FFJT16, FPV18\]. numerical \[GB15a, GP16a, GO15, GLS15, GN16, GEZK16, GA18, GGT18, GFW16, HPY18, HW15a, HO15, HZL15, HM16a, Heu17, HV17, Hu17, IM17a, Jac17a, JSD17, JL16, KTN15, KGT15, KP18, KL18, KCS17, KHC16, KV16, Lap16, LVB15, LE16, LRA17, LS15b, LZ15a, LW17, LB16, LFT16, LYSF15, LP17b, LMC19, MOAA15, MS15c, MW16a, MST15, MDMS18, MHZ15, MN16b, MTK15, MKT17, MA16, MW15, MC17, NMM15, NMM17, NPRC15, NLFM16, NN18, NT16, OC18, PP18a, PC16, PS14, PS15a, PGGW18, PT17a, PW18b, PZF16, RW15a, RMK15, RLV16, RMP18, RZ15,
observer [CCM15]. obstacle [LW15a]. obstacles [BNM15, BFP18, DM16, HGW18, ZZ17a]. Ocean [SS15a, CGSS18, Hig15, Kor17, NWKC16, PP18a, SP16a]. oceanographic [FD5+15]. oceans [MDW18]. Octree [MC16, GZLH19, HS18a, JL18a].
offline [ABI17, SFDE15]. offline-online [ABI17, SFDE15]. off-setting [nKHK19]. offshore [CGSS18, GPAO+18]. on-the-fly [EZG16]. One [Hue15, PKK18, Ram17, SL16b, TC15c, AR16a, APR+15, AS15, An17, BDB+17, CHJT17, DZ16, Hiv18, LSTkM15, LW17e, MN18a, MB15, MB16, TSS17, Ter18, VSM16a, WRL16a]. One-dimensional [Hue15, Ram17, AR16a, APR+15, CHJT17, DZ16, Hiv18, LW17e, MN18a, MB15, MB16, TSS17, VSM16a, WRL16a]. One-shot [BDB+17]. One-step [PKK18]. One-way [SL16b, TC15c, Ter18]. online [ABI17, CEL15, CEL18a, SFDE15]. onshore [GPAO+18].
operational [BDBEE15, EE16]. Operator [MM16a, Vos17, BNK18, BTVB15, CT15, CGQ18, CGS18, CKQT15, CLX15, DDV+15, GP16e, HYY+16, HS17a, Kas15, KV16, LSL15, LW17d, LYPP17, LZL+17, MLM18, Szy16, SZ17, SNL15, TCS17, WDGW17, YS18a].
Operator-based [Vos17]. operator-splitting [KV16]. operators [DBZ17, DWGW17, DY17, LN15, LK17, MN04, MN17, Mat17, MAvdW18, MO18b, OKE17, PEL16, RÖS16, RÖS17, Ran18, SPB18, SKO18, SMD18b, Sub18, Vab15]. optical [BCJL17, KLIQ17, PIs18]. optically [BLL16].
optics [BM15, WT16, XB18]. Optimal [AMPG19, FYZ+15, FMPT18, KDF15, LHMB16, OKE17, RG15, VL15, YYL16, AM18, BIR18, BMRA+15, BDB+17, BRW15, ETAG15, FPASS16, GS15c, Lot18, MM17, SX16, SPM16,
SZS15, Tav16, WSJY16, WBBC16, ZILZ15. optimally [BMC18a, DJD +17]. optimisation [BCO +15, HKJ17, MH18b, MKV +17, RPNP18]. Optimised [RSH +17, LH17a]. Optimization [BZ18, DRP +16, GHH15, RBD17, SGL18, ADE +17, BABY16, BKS18, BMS18, BB3 +17, CGC17, CWWZ17, DBD +17, DK18a, DK18b, EFHZ17, Fid17, FBC +16, FC16, GJ18, GMA18, GGW17, KKZ15, KPKG15, LLY15, Loz17, LBB +17, MHJ15, MMMS15, NSL16, PPCK17, RN18a, RPC +18, STHW17, TZL16, TMH16, TD16b, Wal16, WHZ18, YYY +16, ZP16, ZHW18].

Optimization-based [DRP +16, RN18a]. Optimized [Bra16c, JLC18, DZR18, JLC15, KGS17, KAGR18, LTXB17, MAvdW18, SZ17, YWHP15]. Optimizing [TLR16, CFO18]. orbit [SPCH16]. Orbital [LT17c, Fon16, HPV16, PDDG +17, GS16]. Orbital-free [GS16]. orbital-updating [PDDG +17]. orbitals [DLY17]. Order [BD18, BPD19, DS16, SYV17, TRM16, AHN15, AD15, APP +16, AGC19, AD17, AMJ17, AMP16, ABFR16, ATF16, APKP16, And16, ADK +17, ABH18, ABH +19, ABR16, ABG18c, ALMJ15, Ata15, BZ19, BTD16, BD15a, BGS16, BAGK16, BTGM17, BGT18, BLM18, BNM15, BGN19, Bat17, BKO18, BIR18, BM16, BR15a, BH18, BHE +17, BZ18, BND16, BFT17, BST15, BK16b, BDZ15, BDM18, BSM16, Bre18, BPF +16, BTT18, BC16c, BCG +15, BFTVC18, Cac15a, Cac15b, CGQ18, CBS18, CC15, CGM18, CCK +17, CKK18b, CLY +15, CLC16, CTG16, CJI16, CHY16, CW16 +17, CS17a, C217, CKT17, CHJT17, CZ18, CB19, CLX15, CLTX15, CFS16, CG19, CXY19, CC16c, CR18, CG16, CCM17, CLP16b, CJW18, CCGH17, DS15b, DDJ19, DO16, DBZ17, DNB15, DC18b, DGCW16, DL17, Die15, DLM18, DHC15, DMC17b]. order [Dom18, Don15b, DD18 +18, DCD +18, DVP +16, DLL +17, DL18b, DL18c, DLY19, DY19, DPR16, DPRZ17, DKK15, EMSS17, Fal15, FS17a, FAZ16, FWK17, FS18, FY +15, FBM16, FP16, FRRV16, FHA16, FHA18, GP17, hGwSzS15, GZY16, GH17a, GFC18, GPS17a, GPS17b, GSL18, GS16, GGL +17, GBCF15, GBCF16, GZLH19, GGT +15, GEZK16, G2018, GLK19, GY15, GLW18, GL17, HK19, HW15a, pHZS15, H16, HSLQ15, H7TZG17, HBR15, HW16a, H18, H18v, H17a, H17b, H18, HL16, HHY16, HW16b, HC18a, HC18b, Ismi15, IDSG15, JLQX15, JPSX18, JSZ18, JY1816, JD19, J17, JF17, JTD16, JIC17, KMD +18, KC17a, KW15a, uKHKG19, KRFV16, KY +16, KYW +18, KFWK17, KC18, LMS17, LBTCG16, LK17, LN17, LSL15, LLP +16, LA18, LP15, Ler15, Ler16, L16, LHMB16, LMC16, LW17c, Li17, LC17a, LW17 +18, LGB16, LZ17b, L16c, L16d, LW17d, LX16, CTB17]. order [LS18, LTD18, LIW18, LKSM17, LAC +16, LLLN1, LP17b, LS16, MRM16, MZAF17, MLM18, MNR17, MNG15b, MR16a, MA17, MN15, MN16a, MR16, MDC15, MTT19, MKC17, MW16b, MP17, MDM +15, MS18c, MP15b, MH18b, MRX17, MA16, MMPS17, MB15, MM16d, MM18, NMM15, NMC15, NJ15, NN15a, NL17, OLDN17, OS15b, OS15b, OLHD17, OWKE16, OV17, PX16, PX17, PLHA18, PE16a, PHRA16, PP18b, PAF19, PE16b, PMB18, PBC +17, QWX18, RXSG15, RXS16, RN18a, RSB16, RJ19,
RA17, Roy15, Rua18, RRMF+19, RWN18, Say17a, Say17b, SSVL18, Sch16b, SL18, SC18a, Sha17a, SM16, SWLZ15, SLL16, SGC18b, Shu16, STG17, SYV14, SY18b, SFDE15, SLN15, Spe15, SPZ18, SSN15, SGT16, SGT17, Sti16, SC18b, SK18, SWZW19, Sub18, TLQ15, Tao16, TLQ16, TLH15, TD18, order [TSH17, TK12, TK15b, Ter18, Tie16, TMH16, TMH18, TD16b, TKP16, Tso18, URL16, VPV+17, VN15, VWV17, VSM16a, VSM16b, VAD17, VSC18, VLN+18, VK16, WW15, WLM15, WXW15, WRL16a, WRL16b, WRPL17, WLGD18, WKPS18, WSO16, WKOE17, WR16, WSR15, WL17, WT15, Wu16, WTX17, XYY+17, XY18, XJLQ15, XQ17, YC17, YCPD15, Yan16b, YFJ17, YH17, YLA15, YK18, ZP16, ZK15, ZL15b, ZC15, ZZZ17, Zha17c, ZLFW18, ZY19, ZsSK15, ZY17, ZXL17, ZWYW18, ZQ16b, ZS17, ZQ17, ZS18, ZWUR16, dLDG18, dPSS16]. order/low [CCK17]. ordering [XL17b]. orders [PPCK17, VSM16a, VSM16b]. ordinary [CGS18, HBR15, MTK+16]. ordinate [HY15, JKE+17, OWKE16, OKWE17]. ordinates [DMAM15, LFRH17, MRM16, Mas18]. organic [CLZZ19, vdKK16]. orientation [HDF18]. orientation-independent [HDF18]. oriented [AMK17, BAD19, BD16, TVB+16, VLAB18, WW16]. orthogonal [MN18c, SNK18, AH15, BCSK17, BrTBB18, DA17, FBF15, NLW+16, TSST16]. orthogonal/dynamically [BCSK17]. Ortigueira [Kat16]. oscillating [KZR15, RXS16]. oscillation [APV+18]. oscillation-free [APV+18]. oscillations [Bra16c, HZL+15, MSG18a, SPP+16a]. oscillators [SF16]. oscillatory [CDC17, CCK18b, DB18, HWA15, HY16, IKS19, KCW17, LS15a, LJ16, MW16b, SK18, SS18c, ZPW18, ZQ17]. OSIRIS [DTA+15]. osmotic [YM17b]. other [CV15, JPS17, WS15b]. output [KHHN16, ST18a, YD18]. output/open [YD18]. outlook [MSV+16]. Output [Fid17, NP16, ZKS+15]. Output-based [Fid17]. outputs [VCNP15]. over-penalized [SZ15b]. Over-Relaxation [AC16]. Overcoming [NMM17]. Overestimated [NF17]. overhang [ADE+17]. overlap [SF16]. overlapped [Sha17b]. overlapping [ABH18, AB15, DPO16, DY19, HR17, MPFL16, XL16, XZW+18]. oversampling [SDW16]. overset [AB17, BSM16, CJW18, HK16a, HM19, KLNH17, SPB18, Vre17, ZA15b, dLDG+18]. overset-curvilinear [AB17]. overset/Yin [ZA15b]. oxidation [GMS16].

parallelism [Sla16].

Parallelized [KBK15a, GKRB17, OVP15, XW18].

parameter [BK16b, CMH15, CMW16, FMPT18, HX15, ISP15, LYLK17, LVL18, MG15b, MNG15b, SD17, ST15]. parameter-free [CMH15, MG15b, MNG15b]. parameterization [RG15, VD16]. parameters [AABD15, CPT16, Don15b, GB15a, LBB17, NHM17, LYLK17, LVL18, MG15b, MNG15b, Say17a, Say17b, VSM16a, VSM16b].

partial [AD17, ADH16, AEAM15, BZ15, BT15, CGS15, C16, DLL17, FBL17, Fal16, GXX17, HO15, JX15, JX17, KNS15, KR17, KS16c, LL16c, MS16a, MTBT18, NBH18, Pes15, RK18, RPK19, RMP18, SR16, SS18b, Sub15, TST17, TO15, VCNP15, VB17b, XY18, YHKP17, ZHW18].

partially [MS15a, PD15]. Particle [AB15, C0dLL18, CLMZ17, FRO17, Gam15, KRK15, MDL16, PWC18a, TP16a, WZ18a, YDC16, AMB17, AWS16, AF18, AP16, Ama18, BLL19, BHdD18, BLK15, BBKS18, BKK17, BLC17, Bra16a, Cap18, CGS15, CCL16, CLM15, Cos16, Cot18, CMR16, DD15, ETA15, DPK17, DJL19, DTC15, E18, Eva18, GB15a, GMP16, GGA16, GG15, GBD15, GAJ15, HW16, Har18, HSLQ15, HSLQ16, HM17, HM16b, ID17, Iwa15, JLC15, JST17, KGS17, KES18, KF17, KK16, LKB15, Lap17, LN17, LWP1K18, LS15b, LS16a, LLY15, LBTK18, LS16c, LSR16, LY17, LWT19, MLM18, MRP15, MC16, MCW16, MC16, MPR18, MH15, MS17, MFG15, NOM17, NT15, PLL15a, PKP17, PR16c, PMF15, PWP15, PSV18, PC19, RBJS15, SWC18, SE15, SGC18a, SP16b, SMAG17, SCC19, SE15, Sto17, SPCH16, SG17b].

particle [TY16, TZGW18, dCDPC17, TOR15, TSFS17, TPB16, TL17, WSN15, WCCB16, YX16, ZB15, ZHA17b, ZZPH18b, ZZPH18a, ZZKF15, ZPE16, ZRE16, AG18, DDD17, FHA17a, MNO17, MSD17, WSJY16].

particle-based [ZPE16]. particle-fluid [TZGW18]. Particle-in-Cell [CLMZ17, BLC17, Bra16a, GA16, HW16, MH15, PMF15, SPCH16, dCDPC17, WCCB16, YX16, DDD17, MNO17, MSD17, AG18].

Particle-in-Cloud [WSJY16]. particle-ion [SCC19].

particle-ion/fluid-electron [SCC19]. particle-laden [AMB17, LWT19]. Particle-Mesh [PWC18a, MLM18, MC16, RBJS15].
[CAA18, GRMK15, GFvR18, SP15a, ZG18b]. Peshkov [Jac17a]. petroleum [TH18]. Petrov [BK19b, CBA17, GR18, RDM15, SDW16]. Petviashvili [EO15].

Petrov [BK19b, CBA17, GR18, RDM15, SDW16]. Petviashvili [EO15].

Phase [BG16b, CCP19, HW15c, LJZ15, ZW16, ARF18, ACG15, AASRT17, ABG15, Aal16, AT18, AB15, BCST17, BGN15, BM19a, BAVC17, BGJ15, BR17, BHMS18, BDP18, BKG15, BKKR16, CFSN18, CDM18, CGK17, CJYZ15, CS16c, CKQT15, CYS17, CS17b, CG16, CM18d, DD16a, DD15, DG18, DLP19, DGMT17, EHX15, FGL16, FB17, FMR17, Fed17, GGL17, GHL16, GGT18, HHA15, HHM17, HBR15, HB16, HTMP17, HW16c, HTBG15, JTR16, JS16, JS17, JJ18a, JJ18b, KJ17a, KS16c, KS18b, LVTR15, LSL15, LRA17, LW18, LPGT16, LWY17, LSD17, LY16c, LDGH16, LY17, MNG15a, MA19, MT18, MN16b, MAA18, MDP18, NPRC15, NLW16, OTS17, OT15, PL18, PSB18, PKB15, PS14, PS15a, PGM17, RWG18, RV16, RTO15, RZ15, SPX18, SHA16, Sha17a, SRBB18, SY15, SLL16, Suz18, TH18, TK15a].

Phase [BG16b, CCP19, HW15c, LJZ15, ZW16, ARF18, ACG15, AASRT17, ABG15, Aal16, AT18, AB15, BCST17, BGN15, BM19a, BAVC17, BGJ15, BR17, BHMS18, BDP18, BKG15, BKKR16, CFSN18, CDM18, CGK17, CJYZ15, CS16c, CKQT15, CYS17, CS17b, CG16, CM18d, DD16a, DD15, DG18, DLP19, DGMT17, EHX15, FGL16, FB17, FMR17, Fed17, GGL17, GHL16, GGT18, HHA15, HHM17, HBR15, HB16, HTMP17, HW16c, HTBG15, JTR16, JS16, JS17, JJ18a, JJ18b, KJ17a, KS16c, KS18b, LVTR15, LSL15, LRA17, LW18, LPGT16, LWY17, LSD17, LY16c, LDGH16, LY17, MNG15a, MA19, MT18, MN16b, MAA18, MDP18, NPRC15, NLW16, OTS17, OT15, PL18, PSB18, PKB15, PS14, PS15a, PGM17, RWG18, RV16, RTO15, RZ15, SPX18, SHA16, Sha17a, SRBB18, SY15, SLL16, Suz18, TH18, TK15a].

Phase-dependent [DD16a]. Phase-field [BG16b, ARF18, BDP18, CJYZ15, CS16c, CKQT15, GGT18, JTR16, JJ18a, JJ18b, LWY17, LY16c, MAA18, OTS17, PPKB15, SL16, Wic16, WHZ18, YY17, ZHL18, ZYSW16, ZYCK15, dJRP15, tEDKT17, KYKS19, SRS19]. phase-based [NPRC15].

Phase-transition [DLP19]. phased [SFDE15]. phaseless [ZZ17a].

Phenomena [Fon16, LAK16, RSH17, SC17]. phenomenon [sCYxL18, LBZA16, Rod17, Rod18, VBG15]. Phi [SGL18]. phonon [GW16]. phononic [DBD17, ZZW16]. photoelectrochemical [HGR16]. photon [BCG15]. photonic [GYZ19, MJH15, WHZ18]. photosynthetic [Pis18]. Phys [ASS17, CNG17, Dav15, DK18a, Ghob17, GBC16, HG17a, KYW18, MN17, NG18, PS15a, SWMD17a, SY17, TK15b, ZJS15].

Physalis [SP16b]. Physical [Don15b, CHZ16, LX16, LS16b, LLY18, SAH17, WT15, WT16, XB18]. physical-based [LLY18]. physical-constraints-preserving [WT15]. physically [HKS16, PA15, WED15]. Physics [BR16, EH15, HSK15, Kat16, RPK19, X15, YB17, CSMC16, DD17b, FHK17a, GV18, GSMR18, HBC16, HHGCR15, MN18b, P17, PR15, RL18, RK18, SBG17, XWW16, ZR17, dFGS17]. Physics-based [YB17].

Physics-informed [RPPK19, XWW16]. physics-motivated [FHK17a].

[AEAM15, CSG17, CLG¹⁹, KL18b]. **Prediction** [CI17, DJV⁺¹⁸, BHGK18, Eva18, FS17a, IPSG15, NP16, PVPK17, RKN19, TMWF18]. **predictions** [ALM⁺¹⁷, ID17, KBF17]. **Predictive**

[KZ17, SZK17, C SCM16, KL17a, KZG16, MGKG17, OCSC18, PD16a, RKN19]. **predictor** [BK16a, Jac17b, PHRA16]. **predictor-corrector** [PHRA16]. **predictors** [PSMPG17]. **Preface** [PC16]. **prefactored** [RSH⁺¹⁷].

[preamixed] [SWS⁺¹⁸]. **prescribed** [CRMP16, EJZ17]. **presence** [BTA17, FP18, GGW17, LT15, NL15, RTO15, WS1⁺⁵]. **Preservation** [CHZ16, AHNF15, BTGM17, BGT18, LCF16, OV17, PAL⁺¹⁺⁶, VW16].

**Preserving** [DD17b, AS15, ADK⁺¹⁺⁷, BK19a, BM19a, BLMY17, BT16, BMC⁺¹⁺⁸, CZW17, CB18, CCBLL15, CcDL15, CCP19, CWS18, CX15, CQL⁺¹⁺⁷, CDN17, CLTX15, CFST16, CXY19, CDV17, DLM18, DvW15b, DL15, DMSC16, DY19, DMTB15, EHXM15, FG17, FLT17, GLTB18, GWYS18, Gy15, HSLQ15, HSLQ16, HDA⁺¹⁺⁸, Hiv18, HW15b, HS18b, JLLQ15, JL18c, JXZ15, JL17c, JS17, JJ17, JJ18a, JJ18b, KTK18, LW15b, LY16b, LAEK18, Liu19, Loh17, LHL15, LP17b, MSK18, MD17, MKC17, MGCW18, Nis15, NL17, NSB15, Par18a, QDRB15, QSY16, RKH15, SS18a, Sch16b, SY16, SL15, SKO18, SP18, SL16c, SDW18, SJX15, SJXL15, Snz18, TCS17, TW17, TRL18, VSM16a, VSM16b, WZ15, WY16, WW18, WHY18, WMYG16, WKO17, WT15, XJLQ15, YJ17, YWHP15, ZLJ16, YAZ17, ZYW17, DDD17].

**Pressure** [DXvW18, AEL⁺¹⁺⁷, ALL18, CLNH15, DWGW16, DS15c, HTFL18, Hig15, HHA16, KTN15, KHH16, LW18, MS15b, MCN18, NF17, RMF⁺¹⁺⁸, STHW17, SS17c, Siil16, TD17, Tou18, XDvW17, XDS17, ZCH15, ZZZ17b]. **Pressure-based** [DXvW18, TD17, XDvW17]. **pressure-corrected** [RMF⁺¹⁺⁸]. **pressure-correction** [ALL18]. **pressure-density-based** [XDS17]. **pressure-dependent** [MCN18]. **pressures** [TK12, TK15b]. **pressurized** [CLB⁺¹⁺⁶]. **Pressure-based** [DXvW18, TD17, XDvW17]. **pressure-corrected** [RMF⁺¹⁺⁸]. **pressure-correction** [ALL18]. **pressure-density-based** [XDS17]. **pressure-dependent** [MCN18]. **pressures** [TK12, TK15b]. **pressurized** [CLB⁺¹⁺⁶]. **Pressure-based** [DXvW18, TD17, XDvW17]. **pressure-corrected** [RMF⁺¹⁺⁸]. **pressure-correction** [ALL18]. **pressure-density-based** [XDS17]. **pressure-dependent** [MCN18]. **pressures** [TK12, TK15b]. **pressurized** [CLB⁺¹⁺⁶]. **Preventing** [HZL⁺¹⁺⁵]. **Primal** [RB15, AAE17, AGRB18, Eng18, TC15b]. **primal-dual** [TC15b]. **Primal-mixed** [RB15]. **primitive** [Niu16]. **principle** [AK16, FPD17, FPV18, MN16c]. **prior** [KKL15, dFGS⁺¹⁺⁷]. **priori** [BAD19, FAZ16, KF15]. **priors** [TBL15]. **prism** [CLF17]. **probabilistic** [LZ18, MCS16]. **probability** [BVM⁺¹⁺⁷a, BC16b, CVK16, DH18a, GH15, PKW17, RC18, SG16]. **probing** [PKN17]. **problem** [AJ15, ABN15, ALni19, ADP⁺¹⁺⁷, BD15b, BN17, BL18, BHST17a, BXY17, Bat17, BtTB18, BDK17, BD16, BK17, Cac15b, Cchl15, CC15, CGM15, DGHP17, DvWz18, FPV18, GPRA18, GP17, Gro18, GP16b, GY17, Gy18, HK18b, IK115, JPL15, JTD16, uHKGK19, LL19, LDO17, LHS⁺¹⁺⁸, LW15a, LMC16, LYP17, LZW⁺¹⁺⁸, MST15, NKN⁺¹⁺⁷, PP19, RMA17, RZ18, SF18a, TFGK18, TMT17, TM15b, VW18, WZ15, WL18, Xia15, ZF18, CTM⁺¹⁺⁶, RZ15]. **Problems** [GIF18, LBTCG16, APP⁺¹⁺⁶, AB16b, ATF16, AC17, An19, AR16b, AWJ17, BJO18, BCS17, BSK15, Bk17a, BABB16, BJW17, BOA17, BDB18,
BQCG17, BGV17, VMN+18, BGL+17, BFT17, BCB17, BM19b, BCG+15, BCM15b, BKRB15, CPV16, CDL17, CMP19, CXX16, CH17, CWW17, COV18, CR18, CG18b, CFF18, CMG15, CM16b, CMW16, De18, DPW+15, DCC+16, DL17, DHH+18, Die15, DAO17, DJL+19, DLS15, DZC16, ETL17, EZC16, EN18, EE16, FPDT17, FK17, FG18, FL16, FP18, GM19, GS15c, GW18, GFvR18, GWE+15, GLTG15, GHH+16, HLU+16, HU18, HHCG15, HM17b, HMFJ18, HLTC18, HDF18, IPSG15, IC17, JHPAT17, JLI18b, JFS17, KS15a, KA18, KW15b, KADE15, KKL17, KE15, KCW17, KR17, KFL17, KL16, LSLA16, LPU18, LW17a, LZ16, LW17c, LGB16, LMMS16, LY16a, LH17+17, Lot18, LMTIC15, MZAF17, MS18a]. problems [MNR17, MPR+18, MM15, MMMS15, MM16c, MTK17, MBD15, MSP16, MW15, MWYZ16, NN15a, NL18a, NGS16, NL18b, NSF16, NN15b, PKLC16, PKLC17, PHHR17, PNZ18, PLC18, Par15, Pea15, Pes15, POSB16, PTT18, PBA+15, PPKK17, PPK18, PGH15, RPK19, RYZ18, RHS18, RR16, RBGV15, RPC+18, SY17, STEK17, SSC+16, SPB18, S19, Sla16, SMLB15, SDW16, SP15b, SPM16, SDW16, SCS18, TBHG18, Tow18, WHY18, WRRS17, WED15, WSF17, XZ15, XZT18, YK15, ZP16, ZILZ15, Zha16, ZLL16a, ZG16, ZG18b, ZZC19, ZVO15, ZC16, ZWH18, dEFJ16]. procedure [BBKS16, EH14, EH15, ED16, GB15a, JLC15, JJ18a, KKL15, LFT+16, MRK15, PK16, R¨OS16, SW15, XS15, dFVJ15]. procedures [DLP19, HHM17, OS16]. process [CLFL17, DG16c, ISST18, IM17a, JdR+18, PVPK17, PSMPG17, WLL16, WYA+17a, ZKS+15]. process-based [PSMPG17]. processes [ADH+16, AJVH17, Beg15, CB15, CMR+16, LP16a, Luc15, MZ15, RPK17b, RKK16, S17, SSL17, TBG16, YSWW16, ZQCT15, Zoh17]. Processing [GP18, BBW16, CDM+16, MBM+18]. processors [AAB+16, SGL18]. produce [WDG+17]. product [CLZ18, DM17b, PP18b]. production [Bra16b]. products [CC17b, CSY15]. profile [ZS15]. profiles [NMM19, WG16a]. Progress [TM17]. projected [VYP15]. Projection [dEFJ16, ALL18, BTD16, BVG+16, BPF+16, BFTVC18, CBA17, CM16a, CM18, CNB+16, FK17, FMP18, FS16, GMP15, GTG15, HTBG15, LTB16a, MO18a, PKLC16, PKLC17, PLC18, RSB15, TG17, UL16, WE15, WYA+17a, WYA+17b, CGK17]. projection-based [BTD16]. projective [LMS17]. prolote [HXB15, LC18]. promising [ASB+15]. proof [EB15]. propagation [BG19a, CGMH18, CB15, Chu17, CLQ17, DSS18, FKR16, GFG+15, Hiv18, HU16b, IPSG15, Kim15, KLR15, LTB16b, LMM17, MP15a, MSS16, Mue18, MS1+15, MH17, PS15b, POSB16, RA17, RSH+17, SCN+17, STEK17, SS17b, TLB+18, TBG16, VSDW18, WLE17, ZLL17a, ZZC16, ZWH16]. propelled [SQP16]. Proper [TSST16, DA17, KPKG15]. Properties [LP17b, AF18, CCRdL17, CHZ16, GO15, GD17, Ism15, JL18a, KG17, LP18, LJ16, MT17, NR17, PWP15, VV16, VLRPS16, WIL18]. Properties-preserving [LP17b]. property [FHA17b, GW16, S15b]. proposal [KGS17]. propulsion [Har18, Moo17]. protein [XR17].
prototype [SSC+16]. provably [Tie18]. pseudo
[BCSK17, GWWC17, HLU15, KW15b, KADE17, RN18b, WS15a, dHIC16].
pseudo-compressible [WS15a]. pseudo-convergence [KW15b].
pseudo-inverse [BCSK17]. pseudo-potential [HLU15]. pseudo-spectral
[GWWC17, KADE17, RN18b, dHIC16]. pseudopotential [HW16b].
pseudospectra [RS18]. Pseudospectral [NGY+17, HXB15, MH17].
pseudospectral/discontinuous [MH17]. pulse [DHC16]. pulses [TSN16].
purely [Cap18, YJ17]. Purkinje [PVFN15, VLP+16]. purpose [AVT17].
pursued [TK16]. pyramidal [HW16b].
PNADU15, VLP+16, PO, FLC17b, OLMdL16, RSB15, TZSS17, YXD+16, ZD15a].
quasi- [YXD+16]. quasi-conservative [NF17].
quasi-DNS [KCS+17]. quasi-Hamiltonian [EDK19]. quasi-Lagrangian
[OLMLD16]. quasi-minimal [ZD15a], quasi-neutral
[Ama15, Ama18, DDD17, KKS15, KKS16]. quasi-optimal [ETA15].
quasi-periodic [RPC+18]. quasi-spectral [MA16]. quasi-static
[FCL17, KPJ18, RSB15]. quasi-unconditionally [BC16c]. quasidiffusion
[Ani19]. quasilinear [WTX17]. quasipotential [YP19]. quenching
[CSY15]. quintic [ZYW16].

Rachford [SwS16]. radar [CW16, CW17, Dod17, SG18]. Radial
[KMGR16, SGN16, SNK18, ASS13, ASS17, CS18a, CB19, FHY+19, FBW16,
GBvZB16, GA18, HSC16, HXB15, LB15, LHY17, MF17, SSK17, Shu17b,
SF18b, SW18a, SP15b, WQZ15, WF17, XYPT16, XL17a, YLY18, Mue18].
Radial-Basis-Function [Mue18]. Radiation [DRM15, BHE+17, CG15,
CCGH19, CWyS16, DS15a, DC18a, HR18b, KL15, LMH16, NT16, PJE+16,
PD15, Rag15, RKO+17b, SSM15, SFDE15, SL16b, TWM18, YHQ15, ZM16b].
Radiation-Hydrodynamics [DRM15, BHE+17]. radiations [WT16].
radiative [Ani19, BJRF18, CCGH17, DPW+15, FYC+18, Her16, ION+17,
JL17c, LFRH17, LTKA15, MRM16, SJX15, SJXL15, SJX17, WED15].
radiative-transfer [DPW+15]. radiofrequency [JH15].
radius [CCZ18, XKR18]. Raman [SNB+15]. Raman-lidar-based [SNB+15].

Random
[LWL18, ADHN15, BSP18, LL17, CLZZ19, CN16, CELZ18, DGHP17, DH18b,
Gri15, Gri19, HKL18, HS17a, JXZ15, JL17c, KC17b, KGT15, LS16b, LL16c,
Liu19, LY17, MS15a, MSS16, MN18c, NHA18, PVPK17, PND16, RFGSV15,
TST17, TG17, WMY16, WN17, WH16b, YGEM17, ZFBB16, TSFS17].

Randomized [BBB15, ZNX15]. randomly [LZT17]. range [AS16, FMPT18, LXL17, Loh17, LMC19, MDP+15, SG19]. ranges [SY18b].
rank [AAD16, BKD17, CL18, FDKI17, FG18, HML18, Jer19, KS16b,
Lau19, LO16]. RANS [DWR18, EKV+16, PBC+17, WS16]. rapid
[DWR18, XYPT16]. rare [CL17, GHI17b, MCS16, SPB16]. rarefied
[CCL16, DMAM15, DM16, DY16, DLK15, GJJ15, KJ17b, LL18, LS16c,
SBT17, STKH15]. rate [AWJ17, HMGR16, MZAF17, Opp17]. rates
[BR15a, DD16a]. ratio
[GZLH19, KLC18, LWB+16, STK17, TSY15, WSS+15, WSHT15].

Rational [JB15, VMN+18, WF17]. ratios [FB17, KP15a, YM17c]. raw
[NKN+17]. Ray
[RKO+17b, TSFS17, CLQ17, DC18a, JH15, NK+15, Sto16, SWE18, WSU+15].
ray-based [CLQ17]. Ray-Moment [RKO+17b]. ray-tracing [DC18a].

Rayleigh [BG16, CSG17, RLY16, RMLvR18, WC18]. RBC [Ler15]. RBF
[MF17, Sha17b, SF18b, BFFB17, DA17, FFBB16, GNI16, KAR17, KÁGR18,
PL18, RBY19, Sha17b, SNK18, TLLF15, XWB15, ZZW+16]. RBF-FD
[BFFB17, FFBB16, KÁGR18, PL18]. RBF-loi [SNK18]. RBF-spectral
[RBY19]. RBF-vortex [XWB15]. RBFs [SNK18, ECC18]. RCS [ALM+17].
re [MMM15, Wac15]. re-initialization [Wac15]. re-meshing [MM15].
reacting [DAO17, MM16a, MM18, SBX15, TKP16, ZLY15, ZW15].

Reaction
[BL18, ADH+16, BTVC16, CLC16, CCM15, Cot16, Cui15, DJL+19, EGG+15,
FPB15, FHE15, Hiv18, IZ18, JZ16, JJ17, Kay15, KI15, KLM15, LPB17,
LY18, LM19, MNN16, MD18, MWD16, MPT16, MW15, MN16c, NCP+17,
PD15, RB15, SSDM15, SYM15, SGA+15, TNN15, ZLL+17b, ZW18].
reaction-diffusion [CLC16, CCM15, FFB15, FHE15, IZ18, LM19, MNN16,
RB15, SGA+15, TNN15, ZLL+17b]. reactions [BL18, IS18, SPB17].

Reactive [SP15a, HGR16, LL+16, MN18b, MA16, PWP15, RFGSV15,
SD+17, WSN+15, XR18, TRM16]. reactivity [BHD18]. Reactor
[TCS+16b, CSLL15, DDJ17, HBC+16, HED+16]. Reactors
[TK16, TM17, ABDC+18, CLB+16, FBC+16, GDS+16]. Real
[ATF16, BHL15, ATC17, BLVC16, BW18b, MLI17, MRZG16, MRK15, PD16b].
real-fluid [MLI17]. real-space [BW18b, PD16b]. Real-time
[ATF16, BHL15]. realistic [BPS16, CGG18, GBC+18, HR17, TZSS17].
realizability [AS15, Sch16b]. realizability-preserving [AS15, Sch16b]. Realizable [LN17]. really [RFGSV15]. Rebay [MRRRF18]. REBO [TRM16]. recombination [CLGA17, YBC15]. reconnection [BS15b, DD17c]. reconnection-based [BS15b]. Reconstructed [LLL18, CZL18, HL16a, NLW+16, PL16a]. reconstructing [KYUO15, KBR17, Par17, PR16b]. Reconstruction [ALMJ15, AWJ17, BMPS18, MCGS16, AHNF15, AMH+18, APV+18, BAGK16, BJ16, BMCK15, CLP16b, DIX+18, DF16, DL18b, DJD+17, EdvW17, FRRV16, GV18, GDFL17, HK19, HY16, KKH18, LGB17, LX18, LAEK18, LAK+16, LHF16, LMGG17, MDMS18, PK16, PVBH, RÖS16, RW15b, SW15, SGD18, SO15, SO16, SIX16, VV16, WRPL17, ZS15, ZSL+19, ZN16]. reconstruction/differentiation [LAK+16]. reconstructions [SL18, TLQ16]. Recovering [RZ18, ZZ17a]. recovery [AM18, DH18a, GY17, GY18, GYZ19, SZ15b]. rectangular [CV16a, GKE15, PMGW16, PG18, RMLvR18]. recurrence [FHY+19]. Recursive [HSSZ16, AN15, HS17a, TZSS17]. recycled [GWC17]. red [HS17b]. redistancing [LDOK17, RPL+18, dLKK19]. redistributed [HLL+16, PS16]. redistribution [KO17]. Reduced [BIR18, CB19, FSI17a, LL16c, WC18, AH15, ATF16, AMPG19, BTD16, BM16, BCG+15, CR17, CBCdL15, CS16a, CMP19, CQ15, CS16b, DC18a, HU18, JL17b, JD19, KMD+18, KM17, KTG16, LK17, LVd15, MWD16, MP17, MRX17, OS16, SFT16, SSN15, TD16b, URL16, XYF+17, vdBK17, TG17]. reduced-basis [CS16b]. Reduced-order [BIR18, FSI17a, ATF16, JD19, KMD+18, SSN15, TD16b, URL16, XYF+17]. Reducing [Bra16b, GZM+17, MLB18, BGGM15, XWW+16]. Reduction [BMCK15, PG18, AEVV18, An17, BJO18, BBKS18, BGG16, CBA17, CCS18, CLY+15, CEBdL15, CS16a, CMP19, CQ15, CS16b, DC18a, HU18, JL17b, JD19, KMD+18, KM17, KTG16, LK17, LVd15, MWD16, MP17, MRX17, OS16, SFT16, SSN15, TD16b, URL16, XYF+17, vdBK17, TG17]. refinement-consistent [Don18]. reentry [PLWJ16]. reference [ALA16, DJD+17, LTR16, ZLGS18]. refined [CC17a, JW15c, SLY16, ZJLC15]. Refinement [BV15, C0dL18, PSB+18, SS15a, SL18, AAE19, ACS16, BHS+18, DMS17, EH14, EH15, FGL16, HS17b, HS18a, HIN+16, HW16c, JW15a, KL15, KLRT15, KJ18, KS16d, LS15c, LS16b, LLJJ18, LNM15, MNG15a, MW17b, MSB+16, NdLPCC19, SdTV18, Tie18, WD+17, WD15, XS15, dLAC17]. refinement-free [AAE19]. reflecting [FN17, MS15a]. reflection [DCA+16, DJV+18, EG18b, LFRH17, XZ18]. reflector [BtTB18]. reformulation [CD17]. refractive [LTKA15]. regime [BZ16a, CGK17, CCZ18, DLMV18, HBR15, IKS19, LYA16, YSWW16]. regimes [KF17, LFFX18, PLW16, TCS16a, ZZX16]. region [JL18c]. regional [PLHA18]. regions [Bon17, LH17a, MDT16, RC18, SR16]. registration [ZC15]. regression [ARG+17, GJ18, LLL16, NP16, PVPK17, SX16]. regression-based [LLL16].
regular [Gro18, KGT15, MDM+15]. **Regularization** [BPM18, WSU+15, BKL17, CLS+18, GZ17, HW16a, KGS17, LT17c, LEB+17, SHW18].

**regularizations** [HNS16]. **Regularized** [Cor18, VD16, WGME17, WCVF16, CV15, FC19, GPR18a, NL15, SNB+15, Smi18]. **regularly** [YFKS15].

**reinforced** [LYDB17]. **reinitialisation** [AGC19]. **reinitialization** [CD17, JH17, PLHA18, Bra16b].

**relocation** [SF18a]. **remap** [BMC+18b, DDJ18, Bra16b], **remapping** [CZJ17, SO15]. **remeshed** [HKLW15, RHvR+15]. **remeshing** [BKKJ17, PA15]. **removal** [FWK18, Kim15, KCS+17, KBG+15, KSI17, MSP15, MMPS17, PB18, SL+18, SMOM+17, Vre17, WSP17, WMM+18, ZLY15].

**Relaxation** [ACCCDA16, AIP17, APT17, CDN17, DLP19, FBL17, GSN17, HLM17, LMS17, MGS15a, NG18, RL+15, ZL15c, AC16]. **relaxed** [EN17, YM17a]. **relaxed-Jacobi** [YM17a].

**replica** [BLS15]. **represent** [MVKD15]. **representation** [ATM+18, DOO17, LC18, LG17, SG17, TGL17, XX17, ZK15]. **represented** [ML16].

**reproducing** [FRO17]. **repulsion** [LY15c]. **repulsive** [Rua18].

**Rescaling** [Bon17]. **RESCU** [MRZ16]. **Research** [TM17, AK17].

**reservoir** [AVT17, QWXZ17, vdLJLV16]. **reservoirs** [ABG+15, DGW18, TH18].

**Residual** [CEL15, AD15, BC16a, CC16c, CLGA17, CLNH15, GMLD18, GMD19, IC17, KSSL18, L17, LS16, MN15, NS19, OKWE17, PH16, Ri15, Z15, ZM16].

**residual-based** [KSSL18]. **residual-distribution** [MN15]. **Residual-driven** [CEL15, NS19].

**resilient** [LKK17]. **resistive** [DNOP15].

**Resolution** [MMW15, AW16, AN16, BZ19, BTG18, BGTM18, BST+18, BP18, BL15, CD18, FHA17, GMA18, H15, H17, K17, KB17, L17, L2Z15, NNY15, NMM19, OMY16a, RHvR+15, SSM+17, SZ15, TC18, WL18, YK18, ZS18].

**Resolved** [SP16b, CMR+16, FKW18, Ki15, KS17, KBG+15, KSI17, MSP15, MMPS17, PB18, SL+18, SMOM+17, Vre17, WSP17, WMM+18, ZLY15].

**Resolved-particle** [SP16b].

**resolving** [BVM17b, BCG+15, DIX+18, MMPS17, SKG17, PEVG18]. **Resonance** [CLL17]. **resonant** [VMN+18, DS15].

**resolved** [TVB+16]. **response** [BS16, G18, LWLC17, MN18b, P18, ST16]. **restrained** [TR17].

**Restricted** [Mac16]. **restriction** [ML16, S16]. **restriction-smoothed** [ML16].

**retractions** [DvW15a]. **result** [DvW15a].

**retrievals** [SNB+15]. **retrieving** [Par18b].

**Retrospective** [LMIB18].

**reversal** [RTG18, SSM+17], **reverse** [BT17a]. **reversed** [WSOW16].

**reversibility** [GKRB17].

**BL18, IZ18, PD15**. **review** [Che18, GFO18, MGK17, ZJLC15].
satisfy [FS15]. Satisfying [SYV17, Abg18a, CHY16, CHS17, LW17c, SWPS17, SYV14]. saturated [HSK15, LL18, SSL17, Zad11]. SAV [SXY18]. save [TP17]. Saving [FJLC18]. SBP [Mat17, MAvdW18, MO18b]. SBT [GRS15]. scalability [ECD16].

Scalar [CWF16, CMW16, IPSG15, KRBW17, ANL+16, CS16a, EG18a, EJMI18, KC17c, KDPK15, MCN18, TCS15, TLLF15, WLC15, YS17].

Save [TP17]. Saving [FJLC18]. SBP [Mat17, MAvdW18, MO18b]. SBT [GRS15].

Scaling [BMC18a, JLQX15, LL16a, LY15c, LY17, LT17b, NN18, XKR18]. scalings [JX15, JL17c, Liu19]. scattered [BFP18, CGM18]. scatterer [RTG18].

Scale-bridging [DPW15]. Scale-Resolving [PEVG18]. Scaled [GBS15]. scales [Hig15, MMW15, SDJU15, SBTB18].

Scheduled [ACCCDA16, ACCCD+17]. scheme [AIP17, AdRBC16, Ai15, AS15, APKP16, ABH+19, ADH+16, AA15, ATC17, AHKT17, BHZ16, BAGK16, BK16a, BEJ15, BKL17, BT16, BSP18, BSWG15, BHKG18, Bon17, BCC+18, BDLMI18, Bra16b, BCM15b, Buki16, BRK17, BMC18b, CG17, CX15, CXL16, CTG16, CHJT17, CDX18b, CG19, CC16c, CB18b, CV16b, CH17, CCM17, CDV17, Cui15, DGW18, DDJ17, DSS18, DNN15, DSI15c, DL18a, DYL19, DMTB15, EH18, EMSS17, FDS+15, FX18, FLT17, FSB16, GOR17, GHR17, GBM16, GGL+17, GT18, GHL15, GHL+16, GX15, GLW18, HK19, HMS19, HW15a, Hiv18, HW15b, HWA15, HAH16, HC18a, HC18b, HTBG15, Ism15, ISDG15, Jac17a, JME18, JPSX18, JW15c, JS17, JC17, JJ18b, KGS17, KHC+16, KV16, KC18, LL19, LP+16, Ler16, LL16b, LHM16, LTL17a, LLWJ18, LLFX18, LW18, LSW18, LSTK15, LMK15, Lui16, LSXC16, LTWZ18, LAEK18, Lui19, LM15d]. scheme [LHQ16, LI15, ML17, MNG15a, MRRRF18, MA19, MN15, MBDCF17, MS18d, MTJ17, MSB+16, MBM+15, NMM15, NS19, Nis18a, NF17, NT16, OSK18, PX15, PXLL16, PX16, PL16b, PGM17, PBBK15, PKK18, PS17, PA15, PSV18, PWE+15, QWX18, RDG17, RSSSE18, SNSG16, STK+16, SKF15, SS16b, Sha17a, SFT16, SWPS17, SY16, SLL17, SOS19, SWK18,
SWHK15, SPZ18, SD16, Sto16, SS17c, SDW18, SK18, SJX15, SJXL15, SJX17, TZGW18, Tav16, TK12, TK15b, TM15a, TC15b, TKP16, VST16, WR15, WH15, WDS15, WY16, WH16a, WHY17, WYLX17, WLGD18, WLW18, WH18, WL17, WZL+17, WRL18, XCY17, Xie15, QX17, XS19, YWS16, YWS+16, YFY17, YFJ18, YLA15, YWHP15, YZZ15, ZG17, ZSW17, ZYSW16, ZLGS18, ZWYW18, ZZX16, ZQ16b, ZQ17, ZWG17, dSPDH15, dBMI16, dFPG19, vEkdB16, FRO17, Schemes [ZQ16a, AHNF15, AMH18, AD15, Abg18a, AD17, An17, ABH18, ABR16, ALMJ15, ADOP18, BZ19, BD15a, BG16, BTGM17, BK17b, BTGM18, BK19a, BC18b, BR15a, BR15b, BR16, BH18, BLMI17, BLD15, BDZ15, BD17, Bra16c, Brel17, BTVC16, CBZ18, CV17, CCRd17, CSH18, CCP19, CB15, CC17b, CJK18, CC17, CJK17, CT18, CLTX15, CTM+16, CK16b, CwYJ16, DS15a, DDJ19, DPO16, DL15, DLMDV18, DL18b, DJLQ18, DB18, DPRZ16, DPRZ17, EMM+18, EL18, Eng18, EN18, EJZ17, Fan16, FNGV18, FLV15, FG17, FLW16, FHA16, FHA17b, FHA18, GSS15a, gGWSz15, GSS15a, GMD18, GMD19, GKW16, GCVMK15, GR15, GSK18, GBCF15, GBCF16, GGT15, GAJ15, GLK19, GGT18, HK18a, HLSQ16, JLQX15, JZS18, JLC18, KM17, KW15a, KW15b, KGT15, KGT16b, KGT17, uKHGK19, KFL17, KYW+16], schemes [KYW+18, Kri17, KTK18, LN17, Ler15, LX16, LZZS15, LJ16, LW17, DFC16, LPR19, LM18, MCI16, MCI16a, MKC17, MDS18, MDP+15, MCGS16, MM15, MM16, NMM17, NMM18, NMM15, NL16, NL18a, NR17, NG17, NG18, OS15a, OZ17, OV17, Pxs17, Par18a, PS16, PBC+17, RS15a, Rod17, RRD16, RSH+17, Sch16b, SAEF17, SSZ19, SUR18, SMS16, SY15, SLWZ15, SG18b, STG17, SY18b, SSM15, Sto17, SGL17, Stu17, SIX16, SV15, TLQ15, TLQ16, TL18, T18, Tso18, V16, VN15, V16, VSM16a, VSM16b, WW15, WRL16a, WCL15, Win18, WM+18, WT15, WSF17, XLL+17, XJLQ15, XL16, YC17, YLY16, Y16, Y17, Z16, ZLC15, Zha16, Zha17, ZY17, ZSM19, ZSQ17, ZS17, ZS18, dFJ16, vL17, B17, ZN16], Schrödinger [ATZ16, ABR16, BM15, BJZ15, BA15, BPTA16, BCM15a, CB18, CQL+17, CV16b, CHL17, GMP15, GN16, GW18, GT18, GHL15, IKS19, LG+18, LYA16, LHL15, STEK17, SL15, WH15, WWR17], Schrödinger-like [WWR17], Schrödinger-type [GT18], Schrödinger/Gross [ATZ16, ABR16], Schur [JTD16], Schwarz [Kas15, KC17c], science [AK17], Scientific [ZWB+18], scour [RPNP18], scramjet [CEL15], scrape [HRJ+16], scrape-off [HRJ+16], SDE [AAPB17], sDEM [ACGR15], SDEs [YPC19], SDPD [DJL+19], SDS/MC [XWZ+18], SE [WMS18], sea [ALTR17, KDL15, MR17, SRBO17, WTL17], sea-ice [SRBO17, WTL17], Seafloor [EFHZ17], seamless [iI15], search [GBCF15, GBCF16], searching [PKLS17], seas [WM16], Second [BHE+17, Cac15a, Cac15b, CK17, CR18, DS15b, DLMDV18, DVP+16, FYZ+15, Gro18, HAY16, Ism15, LMCN16, NDCB17, WXW15, ZSK15, ABFR16, ABH18, ABG18c, BTGM17, BLM18, BT17, BR15a, BND16, BST15, BDL18, CC15, GP17, GBCF15, GBCF16, GZ19, HW15a,
HBR15, LN17, LSL15, LPW15, LC17a, Liu16, MZAF17, MN04, MN17, MN15, MH18b, MM18, PHRA16, Roy15, Sha17a, SLL16, WKOE17, Wu16, Yan16b, YH17, ZY17, ZWYW18. **Second-order** [BHE+17, Cac15a, Cac15b, CTK17, DS15b, DLMDV18, DVP+16, FYZ+15, HHY16, LMC16, ZsSK17, ABH18, ABG18c, BTGM17, BR15a, BND16, BST15, BDLM18, GBCF16, GBCF16, GZH19, LN17, LPW15, LC17a, Liu16, MZAF17, MN15, MM18, Sha17a, WKOE17, Wu16, Yan16b, YH17, ZY17].

**section** [ABT16, Dod17, JDFS16]. **sectional** [FSK+16]. **sections** [CV16b, DJD+17, KFL17, LMGG17]. **sediment** [BVM17b]. **sedimentation** [AGRB18, BKRB15, KM15, ZZPH18b, ZZPH18a]. **sedimentation-consolidation** [AGRB18]. **Segel** [ZM16a]. **segmentation** [WLWW17]. **segments** [Cor18].

**Seismic** [MF17, CZW17, LYY15, STB16b, LTXB17, MKYZ17, dFGS+17]. **selected** [DLY17]. **selective** [FOF15, JES15, KKL15, Xia15].

**Self** [CGL18, MTK15, Sub18]. **Self-induced** [BLL19]. **self-propelled** [SCQP16]. **self-similar** [BD15b, BVG+16, BN17, LGV17, LYY15, LYA16, Wal16]. **self-adjoint** [LYPP17]. **self-avoiding** [Wal16]. **Self-consistent** [DK18a, DK18b, OLD+16, TTN+16, TSR15, ADFG17, BD15b, BVG+16, BN17, KLWQ17, LYY15, OLb+17, SCQP16, VGZ18, Wal16].

**Semi** [Cot18, FSM16, Gam15, GT19, GXX17, LC18, MM16a, STEK17, SKW19, WCN15, ZBH+18, BDM17, BFNGDNR18, CQQ16, Cai16, CGQ18, CM16b, DLR15, DAO17, DJLQ18, Ein19, GS15b, GBD17, HY18, HAH16, KFKW17, KYPK15, Lap17, LXC+15, LYT+15, LYA16, MD15, MTD15, NRZS17, OD17, PBBK15, PKK18, PME+15, RAM15, SXBB15, SW18a, SFT16, SLZ+17, TD17, TM15b, XRX18, YZW+18, ZBZ+18].

**Semi-analytical** [GT19, LC18, MD15, MTD15, TM15b]. **semi-classical** [LYA16]. **semi-discrete** [SLZ+17]. **semi-empirical** [YZW+18]. **semi-explicit** [KFKW17]. **semi-flexible** [NRZS17]. **Semi-global** [STEK17].

**Semi-implicit** [Gam15, GXX17, MM16a, SKW19, WCN15, ZBH+18, BFNGDNR18, Cai16, CM16b, DJLQ18, GS15b, HY18, Lap17, LXC+15, PME+15, RAM15, SXBB15, TD17, XRX18]. **semi-infinite** [GBD17, ZBY+18]. **Semi-Lagrangian** [Cot18, BDM17, CQQ16, CGQ16, DL15, DAO17, Ein19, HAH16, KFPK15, OD17, PBBK15, PKK18, SW18a, SFT16]. **Semi-spectral** [FSM16].

**semiclassical** [HHY15, IKS19]. **semiconductor** [FKF17, HW15b, Liu19].

**semiconductors** [CLZZ19, vdKK16]. **semilinear** [ZH18]. **Semiparametric** [BH16b]. **semismooth** [YSY17]. **sensing** [KKZ15, LSD18]. **sensitivities** [Cac15a, Cac15b, KPKG15, LZ17].

**Sensitivity** [NW17, SD17, AMJ17, ADP+17, Blo17, BW18a, Cac15a, Cac15b, CNW17, Lila16, SW17b, TCA16, TMWF18, MBJ16]. **Sensor** [ABdC+18, NHM17, Fon16]. **sensors** [ST16, ZY18]. **Separable** [BPF+16, LT17b, PGH15, TBO+16, ZZT+16]. **separated**
[BBB15, FW17, RBD17]. separation
[CC16b, DKK+18, LPU18, MTJ18, SWX18, WHT18, WX18, YNW17, CM18d, MP17, MTJ17, SP17a]. serendipity [HR18a], series
[LVTR15, SGD18, VALT16, AASRT17, AGC19, AT18, CWW17, CD17, CG16, CM16b, GLTB18, GM16, GHP15, GFO18, GWYS18, HK17, JLC15, JSG16, LSMS17, LSYF15, MGBG16, MW17b, MLMM17, NLK+15, OL17, OLD+18, PLHA18, PC19, QWX18, STV18, SCJ+18, SSA17, TAR17, Wac15, XSL18, YCS+17, ZA15a, ZLH+17, ZC18, ZY19, ZHW18, dLGT+17, dLKK19, AAL15, AB15, BAVC17]. Set/Ghost [LVTR15, GLTB18].

[Teu15, HS17b, XYPT16, YY16, ZW15]. shot [BDB+17]. shrinkage [KKL15, WYA+17b]. Shu [YY16]. side [FNGDMNR18]. sided [KSM19, SYM17]. sign [DCCC16]. sign-changing [DCCC16]. signaling [CFG16]. signals [CWL+16]. signed [Sel15]. significant [TBHG18]. similar [BD15b, BVG+16, BN17, VGZ18]. similarity [NN18]. Simple [KH17, KC18, ATC17, DL16, HK15b, HC18b, KBK15b, Niu16, OS15a, OSKN18, RS15b, SM19, VNA15, ZL15b]. Simplex [EDC16, KHTZA16]. Simplex-in-cell [KHTZA16]. Simplex-stochastic [EDC16]. simplicial [MMSS15]. simplicial [MHS16, PR17a, SC16]. Simplification [ZXL17]. simplified [HE15, LWYY18, MF17, CNW17]. simply [LDL+16]. simulate [CG15, DA17, RFGSV15, ZWUR16]. simulated [YDCK16, ZD17]. Simulating [KS18a, LP16a, AJVH17, Cap18, CL17, CGS15, DvB17, Don15b, ELH+16, GLS15, GWS15, LYB18, MAK15, Mool17, NRZS17, OT15, OD17, PZNG15, PGCG18, QSB18, RL18, SHKL16, STKL19, SMA+16, SDH+16, TK12, TK15b, TND18, TKP16, WMY16, dTP16]. Simulation [CS17b, FBM16, GFA+16, GZLH19, GBS15, LSD+17, LM15c, Mac16, MDW18, MM18, OMYvdP+15, RKV+18, SSVL18, SB18, STW16, SDM+17, SSX16, TM17, diAC17, AVT17, AAB+16, Ama18, BBKS16, BBMN18, BST+18, BS15a, BR15a, BGJ+15, Bra16a, BJ16, CGSS18, CRW16, CB15, CL16, CTJ+17, CPSF17, CH17, CD17, CLB+16, CSM16, CLGA17, CB18b, CEL115, CMR+16, CLNH15, DLI17, DD17a, DKPC15, DPW+15, DL17, DHI+18, DHL18, DMS17, DLJ+19, DHC16, DEZ16, ESGS17, ESH16, EKSS15, FDKI17, FG17, Fon16, FFJT16, FC19, FRW16, FKY15, FP18, GB15b, GB15a, GWB+15, GV18, GZY16, GPAO+18, GDFL17, GD19, GR15, GH17b, GBU15, GFW16, HYK+16, HIN+16, HN17b, HLML17, HY17, IM17a, JD19, KM17, KBKI15, KP18, KN17, KLRT15, KK17b, KS18b, KHC+16, KJ17b, KYPK15]. simulation [SLYCC17, LRA17, LPW15, LZ15a, LWYY17, LXL17, LLY18, LT16b, LD15, LPBR15, LAA16, LSYF15, LWC17, LWTF19, LMC19, LEB+17, MC18, MWD16, MNG15a, MPT16, MG15b, MNO+17, MS15c, MW16a, MBM+18, MN16b, MN18b, MKR15, MTJ17, MTJ18, MLL18, MZ15, MM16d, MOR18, NOM+17, NYNY15, PC16, PGGW18, Pis18, QWXZ17, RKL18, RBY19, RS16b, RWW18, RW15a, RMF+18, RR15b, RGS16, SKF16, SD15, SDJ15, SAK18, SSC+16, STKH15, SP16b, SCS16, SBH19, SHW17, SF16, Str17, SP16c, SK18, SST+15, TCA16, TGY18, TK16, TC15d, VMM19, VV16, VBG+17a, VK18, Vre17, WDS15, WSP17, WSOW16, WCCB16, WHT18, XYPT16, XDvW17, ZXX15, XL17b, XR17, XS19, YBC15, YSW16, YSW16, YS17, YFJ17, YFJ18, YS17, YM19, YCS+17, ZFPB16, ZLY15, ZB15, ZDW16, ZW16, ZZZ17, ZHLZ18, ZQCT15, dJRP+15]. simulation [dCG17v17, vdLJLV16, CWS18, FNP17, LLM17, TABR17]. Simulations [CBS18, Gan15, AWS16, ALM15, AT18, AG18, BZ19, BT17a, BLL19, BCD+15, BFT+16, BL18, BBB+16, BCB15, BI16, BPS16, BPS17, BBW16, BLK15, BVMI17b, BLJ17, BPM18, CGQ18, CM18a, CCdL15, CCdL15, CDM18, CTK17, CS18a, CGJ16, CC16c, CSK+16, CSB15, Cos16,
CvKH16, DMAM15, Dav10, Dav15, DM16, DG16c, DB16a, Don15a, DBCK15, DBMB15, DD16b, EMM+18, EFHZ17, ED16, EH18, Fan16, FHS17, Fed17, FPASS16, Fer17, FHE15, FHA16, FKS19, GZM+17, GK19, GSL18, GDS+16, GBC+18, GJ15, GEZK16, GSS15b, HRJ+16, HBC+16, HWH+16, HTZG17, Heu17, HSB16, HLQ16, HLQ16, HMRG16, Id016, IG15, IBML16, ID17, JSP16, JYY18, JLFK17, KQB18, KHTZA16, KL16, KZR15, KG15, KRK+18, KSI17, KV16, KS16d, LM15a, LY15a, LKK17a, LBZA16, LHMB18, LWL18, LGD17]. simulations
Sobolev [CM15, CGM18]. soft [LHY+19, WSU+15]. soft-X-ray [WSU+15]. software [YZW+18]. solar [HGR16]. solid [AASRT17, AGBL15, BJWZ17, BLG+16, BB15, CH17, CLM15, CLFL17, DDB+17, HW15c, HW16c, KTK15, KLC18, LZ15b, MA1K5, MPR+18, NFG15, PAL+16, RHS18, SDM+17, Tre16, VM15, WCVF16, XYF+17, YK15, YS15, ZLY15, ZDGW16, ZW16, ZQCT15, aKT16]. solid-air [DBD+17]. solid-fluid [PAL+16]. solid-fluid-interaction [CH17]. solid-liquid [BLG+16, HW15c, HW16c]. solid-solid [KTK15]. solid-state [BJWZ17]. solidification [BGJ+15, OTS17, RKRGW17, RTO15, TYD16]. solids [AAI16, BHKS16, DLY17, DPRZ16, DD16b, GSL18, Heu17, QSB18, RJ19]. solitary [AEAM15, SS17c]. soliton [LY16d]. solitons [MW16a]. soluble [BGN15, SCJ+18, XSL18, dLGT+17]. solute [BGJ+15, SZCL18, YM17b]. solute-solvent [SZCL18]. Solution [CLP16a, KE15, LHS+18, NLFM16, ASB+15, ATF16, And16, AB17, AKM+19, BHL15, BNMI5, BBF+17, BK19b, BFFB17, BGV17, BDKK17, BVWM16, BLVC16, BLVC17, BDBEE15, BCB17, BTT18, CPV16, Cha16, CMH15, CFF18, CLMZ17, DGHMP17, DMM15, EMM+18, EAAM15, Ev18, Fal16, FG18, GMP16, GP16a, GN16, HE15, HO15, HP17, IGQ15, JHPAT17, KA15, KF17, LW15a, LWYY18, LB16, LMT1C15, MMN16, MRM16, MN17, MR16a, MPFL16, MFB18, MSH+15, NH17, NPRP15, NKN+17, PBA+15, Rag15, RMP18, RHS18, RZ15, SZ15a, SR16, SWZ15, SW16, SWPS17, SPRW15, SL16b, SV17, TK15a, TD17, TM15b, TO15, UWH17, VSM17, VST16, Wac15, WL18, WBBBC16, WSH19, WZR15, YSY17, ZSP15, ZLL16b, ZCL17, ZLL+17b]. solution-filtering [EMM+18]. Solutions [Gno17, AEAM15, BSWG15, CGTH18, CSN18, GS15a, GIF18, GS15c, GY15, HPY18, JL16, LZ17b, MN18a, MKY17, MM17, NDCB17, PX16, RPK17a, RDM15, RMC15, SWZW19, Sub15, Sv1515, VBG16, VGZ18, VCP18, WDG+17, WSJ16, WBM+15b, YK15, YLLH19, ZLL16b, ZLL17a, ZHS18, ZZ16, ZS17, bWAW15]. solvable [HW15a]. solvated [YX15]. solvation [GZ17]. solve [ALTR17, CE17, Chu17, DLK17, DYL19, DBMB15, FQNZ18, LZ16, LYPP17, MD18, MR17, PMF+18, RYZ18, SLZ+17, TBH1G18, YWH15]. solved [KW15b, LFRH17]. Solvent [EG18a, SZCL18, ZRT18]. Solvent-Excluded [EG18a]. Solver [ABG18c, APV+18, AGBL15, Am15, AAD16, AB16b, AdSS+15, ABT16, AC17, ANL+16, Bal15, BAGK16, BK16a, BVC+16, BN17, BL1M18, BDK+17, BP18, BM19a, BWR15, CBB16, CBC+18, CM16a, CG18a, CGP16, CTM+16, CRZ17, CM18c, CLP16b, CC18H7, D1WP16, DY16, DS15d, DL18b, DB16b, EJMI18, FGLW18, Fer17, GRT18, GWC18, Guo15, GFW16, Har18, HY16, HSF17, JZSX18, KE1918, KC17c, KF1717, LTB16a, LKB15, LZ17a, ILLN16, LSTK15, LG1H16, MS15b, MH18a, MHL17, MM17, NBT19, NWW17, Nu16, NN15b, OC18, OVP15, PFK16, PR16a, PCBG18, Pop15, RCRF16, SKP+15, SLHL15, SP16a, SY16, STW16, SYM15, SM19, SPW18, SGD18, SC16, St16, SL16b, SST+15, SK15b, TCS16a, TWH15, Ter18.
VLP$^{+16}$, VKE$^{+18}$, VNA$^{15}$, VSC$^{18}$, WY$^{17}$, WSY$^{15}$, WSHT$^{15}$, WSY$^{16}$, W$^{15}$a, WCCB$^{16}$, WHT$^{18}$, X$^{16}$, YSW$^{15}$, ZHA$^{17}$a, ZG$^{18}$b, ZBB$^{+18}$.

**solver-based** [BK$^{16}$a]. **solvers** [BSK$^{15}$, BD$^{15}$a, BTGM$^{17}$, BK$^{17}$b, BGT$^{18}$, BK$^{19}$a, BAVC$^{17}$, BC$^{16}$c, CDC$^{17}$, DS$^{15}$b, DG$^{16}$a, DWR$^{18}$, DL$^{18}$c, EKV$^{+16}$, Ein$^{19}$, Jou$^{15}$, LPGT$^{16}$, MV$^{16}$, MM$^{16}$c, NMM$^{19}$, PA$^{19}$, PP$^{17}$, SW$^{17}$a, SPM$^{16}$, TKB$^{+15}$, VBG$^{16}$, XRMM$^{15}$, ZAK$^{15}$, ZSL$^{+19}$, dPSS$^{16}$].

Solv$^{19}$ing [BG$^{19}$b, GMP$^{15}$, GMS$^{16}$, GLTG$^{15}$, IKS$^{19}$, KR$^{17}$, MBD$^{15}$, AR$^{16}$a, Alm$^{19}$, AD$^{+16}$, ADF$^{+17}$, BM$^{15}$, VMN$^{+18}$, BZ$^{15}$, CG$^{18}$b, DLNR$^{18}$, EE$^{16}$, GSN$^{16}$, GP$^{17}$, GBM$^{16}$, HW$^{16}$a, HHC$^{15}$, HSC$^{16}$, HF$^{18}$, HHY$^{15}$, IKI$^{15}$, KKL$^{17}$, KDL$^{15}$, LMS$^{17}$, LM$^{18}$, LW$^{15}$b, LC$^{16}$, LK$^{16}$a, LIW$^{18}$, Lot$^{18}$, LZW$^{+17}$, LS$^{16}$, MW$^{16}$b, MW$^{17}$a, Moh$^{15}$, MLMM$^{17}$, MBM$^{+15}$, Noe$^{15}$, OL$^{16}$, Pxr$^{17}$, PKJ$^{+18}$, PL$^{18}$, PBB$^{15}$, RPK$^{19}$, SNK$^{18}$, SWL$^{15}$, SS$^{18}$b, SWK$^{18}$, SS$^{16}$c, SHW$^{18}$, SGT$^{16}$, SGT$^{17}$, TSH$^{17}$, TP$^{17}$, TBO$^{+16}$, Vab$^{15}$, WR$^{15}$, WXW$^{15}$, WA$^{18}$, XL$^{16}$, YHKP$^{17}$, YB$^{18}$, YM$^{17}$c, ZKK$^{16}$, ZD$^{15}$a, Zha$^{16}$, ZG$^{18}$a, ZQ$^{16}$a, ZQ$^{16}$b] **SOMAR** [SS$^{15}$a]. Some [FLW$^{16}$, hGwSzS$^{15}$, FSWW$^{17}$, GFO$^{18}$, KD$^{17}$b, Pas$^{16}$]. sonar [EFHZ$^{17}$].

source [ASB$^{+15}$, ADOP$^{18}$, BCB$^{15}$, BT$^{16}$, DH$^{18}$a, DMTB$^{15}$, EG$^{17}$, FQZN$^{18}$, GKN$^{17}$, HS$^{18}$b, NMM$^{16}$, NLK$^{+15}$, NL$^{17}$, RTG$^{18}$, RZ$^{18}$, SY$^{17}$, Tow$^{18}$]. sources [BM$^{19}$b, POSB$^{16}$, RRL$^{19}$]. Space [PCF$^{15}$, SWHV$^{16}$, VLN$^{+18}$, AS$^{15}$, AP$^{16}$, ATZ$^{16}$, AMPG$^{19}$, AHKT$^{17}$, BCT$^{17}$, BJH$^{18}$, BZ$^{15}$, BK$^{18}$, BHE$^{+17}$, BW$^{18}$b, BTWY$^{15}$, CLZ$^{18}$, CV$^{16}$a, CCGH$^{19}$, CGG$^{18}$, DM$^{17}$b, EHXM$^{15}$, Fid$^{17}$, GLW$^{18}$, HKKP$^{16}$, Har$^{18}$, HLML$^{17}$, JW$^{15}$b, JW$^{16}$, JX$^{16}$, JX$^{17}$, KL$^{15}$, KLRT$^{15}$, LS$^{16}$b, LW$^{17}$, ILNS$^{17}$, LCF$^{16}$, MD$^{17}$, MN$^{18}$a, MRZG$^{16}$, MDDM$^{17}$, PD$^{16}$b, SWZ$^{15}$, SWL$^{15}$, SW$^{16}$, SWPS$^{17}$, SW$^{18}$b, SX$^{15}$, Tav$^{16}$, TD$^{16}$a, TD$^{17}$, TD$^{18}$, VGF$^{16}$, VSC$^{18}$, YYN$^{+17}$, YLLH$^{19}$, ZJL$^{16}$, ZBZT$^{17}$]. space- [LCF$^{16}$]. space-angle [KL$^{15}$]. space-charge [AP$^{16}$]. Space-fractional [PCF$^{15}$, CLZ$^{18}$, CV$^{16}$a, CGG$^{18}$, JW$^{15}$b, JW$^{16}$, ILNS$^{17}$, MD$^{17}$, MDDM$^{17}$]. Space-time [VLN$^{+18}$, CCGH$^{19}$, DM$^{17}$b, Fid$^{17}$, HLML$^{17}$, LW$^{17}$, SWPS$^{17}$, SW$^{18}$b, TD$^{17}$, TD$^{18}$]. spaced [CB$^{19}$]. spaces [GMP$^{16}$, KCW$^{17}$, KC$^{17}$c, YY$^{16}$]. spatia[l-time [AM$^{17}$a, NLK$^{+15}$]. Sparse [AMB$^{16}$, CS$^{16}$b, HLS$^{15}$, WTGC$^{16}$, ARG$^{+17}$, ATM$^{+18}$, AM$^{18}$, BG$^{16}$, CQ$^{15}$, GNZ$^{18}$, HLT$^{18}$, JW$^{15}$a, JL$^{17}$b, KS$^{16}$b, LZT$^{17}$, MJ$^{17}$, PSP$^{16}$, SS$^{17}$b, TCA$^{16}$, WCN$^{15}$, WK$^{15}$]. Sparse-grid [CS$^{16}$b]. **Sparsifying** [LY$^{19}$, LY$^{16}$d]. **Sparsity** [KMD$^{+18}$, BKL$^{17}$, SGP$^{17}$a, YL$^{16}$]. Spatial [CNG$^{99}$, MDMS$^{18}$, AA$^{15}$, BB$^{15}$, CNG$^{17}$, DJL$^{+19}$, FS$^{16}$, KKL$^{15}$, LPW$^{15}$, LZ$^{16}$, LN$^{15}$, LK$^{16}$a, NSB$^{15}$, SP$^{16}$c, TC$^{15}$c, VLT$^{16}$, WMY$^{16}$, WKO$^{17}$, XTS$^{+16}$, Yan$^{16}$a, YM$^{17}$b]. spatial-stochastic [KKL$^{15}$]. spatially [LM$^{15}$d, MPT$^{16}$, NHM$^{17}$, SSV$^{18}$]. Spatio [Han$^{16}$]. Spatio-spectral [Han$^{16}$]. spatiotemporal [SLZ$^{+17}$, Tie$^{18}$, TL$^{15}$]. spatiotemporal-adaptive [TL$^{15}$]. **SPDEs** [KKL$^{15}$, OB$^{17}$]. Special [KHP$^{15}$, KZ$^{17}$, Kat$^{16}$, KZG$^{16}$, TM$^{17}$, KS$^{15}$a, MRRF$^{18}$, WT$^{15}$, ZT$^{17}$]. species
Specific [CCZ15, HYK+16, MN16c, SGA+15, TC15a, TKC15, TCSM15, WB17].

Spectra [Roy15]. Spectral [ATM+18, CB18a, DMSC16, DZH15, GHM15, GA18, LWL17, MK17, MDDM17, NS16, PGH15, Szw+16, SX15, TST+15, Tre16, WB16, YJB18, ABP+16, AABD15, AB16b, ALM15, ABR16, ALT17, ALMJ15, BZ19, BEJ15, BZ16a, BA15, BBDEE15, BG16, Ca16, CZW17, CL16, CJD+17, CDDL19, CXH15, CL16, CH17, Cho15, De15, DY17, EKE16, FB16, FSM16, GM19, GWWC17, GX17, HSM19, Han16, HB15a, HB15b, HSF17, JA19, JB15, KC17a, KADE17, KIP15c, LPG18, LP18, Li17, LPR18, LMBZ15, LZZ15, LTXB17, LYPP17, MVH16, MS16a, MG15b, MJ16, MDM+15, MP16, MJ17, MA16, MSP15, MSP16, MM17, PKF16, PG17, Pas16, PR17a, CBD19, RW16, RN18b, SHL15, SC15a, SO17, SMD18b, So16, SGT16, Sub15, TH18, TO15, URT18, VSM17, VPV+17, VK16, WLM15, WZ15, WLW+18, WCL15].

[DAO17, MZ15]. sprays [SDM+17]. spreading [BDG+17, JJS15, LWC17].

spring [iI15, iI17]. spurious [AAL15, MSG18a, MLB18, ZW15]. squall [MG15b]. square [JL15, MH19]. Squares

[CNW17, NW17, BVG+16, BTB18, Blo17, CBA17, CZL18, LYZ18, LJ16, MAP17, SX16, SLDTV18, TMWF18, TMH16, VLN+18, ZNX15, dTP16].
squares/fictitious [GW1818]. squircles [LB15]. sSSA [DJL+19].

Stabilisation [XRMM15]. Stabilised [SL17, EKEB16, Fer17]. Stability [AC17, Ami19, CSK+16, DDV18, GSS15a, KL16, MBJ16, MNB16, SwS16, VBG+15, AA15, Ata15, BK17b, BK19a, BR15b, BR16, DLS15, DK15, FWK17, GR15, LH17a, LS16a, DV17, MF16b, NR17, O'S15b, PJC16, Ram18, RS15a, RS18, SSZ19, SC18a, WSH+17]. Stabilization [Sov16, ALMJ15, BTD16, BK19b, BNK18, BC16a, CLGA17, DRM15, EMM+18, Kla15, LW17a, MSt18, SF18b, Ter18]. Stabilized [ASS13, ASS17, DJLQ18, MNG15b, SSC+16, STV18, BHF15, DGMT17, FMPT18, HMFJ18, MVK16, SDMS17, SL18].

Stable [AMH+18, BGN15, BJK17, CNG99, MDT16, SKP+15, Sto17, WF17, ZN16, dSPDH15, BHST17a, BHST17b, BHST18, Beg15, BCJL17, BC16c, CNG17, Cha18, CW19, CJY15, CS16c, CS17a, sCyxL+18, CLS+18, CKQT15, CLv17, CG19, CH+18, DC18b, DWGW16, DWGW17, Don15a, DS15c, DB18, FCL17, FFJT16, FPV18, GBCF15, GBCF16, GHL+16, GT18, GT15, GX15, HW15a, HR15, HH17b, IC17, LT16a, LM18, LHB+16, LS18, ML17, MBHS17, MDMS18, MNL16, MTD15, NN15a, NN17, NL18b, OLDN17, PCN15a, PCN15b, PND16, PKK18, PMB18, ST18a, SW17a, SLH18, SPB18, SYY15, SL17, Tav16, Tiel18, VV16, WJD16, WKG17, WGW18, WG15, WG16b, WDGW17, WCCB16, WSF17, Xia15, YC17, Yan16b, YH17, ZYSW18].

Stage [PP17, BJO18, CSS17, CFST16, DL18c, FPAS16, LZX17, PXX16, RFPSSA18]. Stage-parallel [PP17]. Staggered [CCKQ15, AB17, CCM17, DDJ19, GH17a, GZ18, JJ15, KSSL18, LHMB16, LWWY18, LMMS16, LCF16, MO18b, OLDN17, SO15, SZF15, TLQ15, TD16a, TD17, TD18, TRKL18, VV16, Vre17, Wil18, YLY16].

staggered-grid [GH17a, LHMB16, LWWY18, SZF15, YYL16].

staggered-mesh [Wil18]. standard [Fan16, FST15, STG17, VWV17]. stars [Lau17, RL16]. started [GWC17, SHW17]. state

[BJTZ15, B JW17, CGTH18, CKK18b, CZL18, CMM17, CMW16, EFT15, KTN15, KSI18b, LZ17b, MC15, MC15, MC15, SE16, SWZ19, TYD16, TST17, TCI15, XZT18, ZLC15, ZLX16, ZS17]. state-based [XZ18]. states [ATZ16, ALT17, GLZ16, GZ18, LY17, OC18, PDS15, Rua18, RK15, SW17Z].

Static [AF18, DG16b, FCL17, KKL17, KPS18, RB15]. stationary [ACCD+17, ALT17, DCK15, LZ17a, LYZ15, RRL19, TSST16, ZF16, ZL15b].

Statistical [LKK17b, RS15b, CSH18, PRvdL18, RL17, VCG15, ZLX17]. statistically [CM18b]. statistics [DY16, FK17]. status [MSV+16]. Steady [TYD16, AD15, CV17, CGTH18, CTK18b, CZL18, CMM17, DKPC15, DDV18, EFT15, HY16, J1L16, KA18, LL16b, LLWJ18, LZ17b, MC15, MH18a,
NdLPCC19, Noe15, PQR17, RKH15, SE16, SWZW19, TST17, XRMM15, ZJLC15, ZZX16, ZS17. **Steady-state** [TYD16, CGTH18, CZL18, CCM17, L17b, MC15, SE16, SWZW19, TST17, ZJLC15]. **steep** [SWMD17a, SWMD17b]. **Steepest** [MH18b, TP16b, FSWW17]. **Stefan** [Gro18]. **Steklov** [DDV15, HS17a]. **Stellar** [Lau17]. **stencil** [GEZK16, PG18]. **stenotic** [GZM17]. **step** [BH18, CC15, CFST16, DvW15a, DL18a, EMMSS17, FW18, HPY18, HC17, HMRG16, JZ16, LM19, MBSS15, PKK18, SP16c, VL15, WBM15a, BM15]. **Stephen** [ZJS15]. **stepping** [BDZ15, CLvS17, CLP16b, DNBH15, EARA15, GSK18, LW17d, L18, Par18a, QB16, RGPS17, Tav16, Tie16, XXY18, Yi18, ZZDB15]. **stepwise** [ARG17]. **Stiefel** [BTD16]. **stiff** [BP18, CB15, CTM16, HS18b, LTR17, PBKK17, SYM15, T15, TM15b, ZW15]. **stiffly** [RT16]. **stiffness** [AM17b, WHCN17]. **Stochastic** [AMK17, BHS18, CL18, CHLZ17, HK17, LPWK15, PTF18, RL18, SE16, ATM18, ADH16, AAPB17, BCSK17, BV18, CHZ16, CSN18, Cot16, CMR16, Dav0, Dav15, DH18a, DJ18b, DEZ16, EDC16, GH17b, HFN18, H15, HMB15, HJZC17, HL15b, HJ16, IST18, JL15, JL18b, JL17c, JS17, KM17, KKL15, KK17b, Kou16, LYL17, LJ15, LST17, Liu19, LM19, LM15c, MPT16, M15, MF18, NW15, Opp17, P15, SSDN15, SS18a, SS18b, SGA15, T15, TPT16, TT17b, TJ17, VL18, VCNGP15, WN18, WHCN17, WH16b, WTX17, XZZ15, YLL18, ZLX17, dCGCA17, ACG15, HSB16]. **Stokes** [CDN17, HTMP17, TXKvdV15, TXKvdV16, AD15, ALKZ16, AB18, ALL18, AB17, BTD16, BC16a, BTB15, BL17, BPD19, BHF15, BC16c, BC16d, CGS18, CHOR17, CS16c, CY16, CYYL18, CCKQ15, CGRV17, CV18, CCM17, CLP16b, Du18, FWK17, FBW16, G18, GT16, GMR18, HPY18, HW15a, H17, H18, JPSX18, KML18, KLGO18, LM18, Ler16, LXC15, LZ15, LT17a, LHMB18, LM16, LY16a, LRGO18, MS18a, MS18b, MLM18, MPSF16, MS18c, MS17, MBBK17, MHS16, MR16b, NL15, NN19, OT15, OvdHVH16, PG17, PXL16, PX16, PJC16, PC15a, PC15b, Pea15, PND16, PDRB15, PBKK15, PMB18, RDM15, SHLG15, SMS16, SLB16, SY16, STG17, SE16, St15, Stü17, SZ18, Sv15, TD16a, TD17, TMH18, UL16, W17, W15, W18a, WC16, XWW16, Y18, YS18b, YTW15, Zha17c, ZLFW18]. **Stokes-like** [GMR18]. **Stokes-residual** [BC16a]. **Stokesian** [LRZ17, WB16]. **stokeslet** [Smi18, Cor18]. **Stokeslets** [CV15]. **stopping** [RMP18]. **storage** [CB15]. **straight** [LB16]. **strain** [L17, LHY19, SY18a, TBO16, WS16]. **strand** [KW15a]. **strategies** [BCB17, HD15, JW15a, KRFV16, Kou16, LJ16, PQR17, SSN15, WED15]. **strategy** [AM18, CC15, CGC17, DC18b, DBMB15, FC16, HX16, J18, JBO15, OMYvD15, OLD18, PK16, RR18, SX16, SDM17, Y18, ZFL15, ZL16b, vLttB17]. **stratification** [CD17]. **stratified** [BNM15, Cai16, GDA16, MTD15, M16, RS16b, SHLG15, WLM15, vOMB17, SS15a]. **streamer** [DBMB15]. **streaming** [BDMC15, YSWW16].
Streamline [WHE17, WHEK18, BK19b]. streamline-upwind [BK19b].

streamline-upwind [BK19b].

strength [LK17].

stress [CDDL19, DGW18, Fal16, LEB+17, WS16].

stress-free [CDDL19].

stress-strain [WS16]. stressed [JTR16]. stresses [BJ16, GLMC16, Wil18].

stretched [LSLA16, MMvR18].

strip [BPGS16].

strong [AHHC18, BJK17, CLMZ17, ESGS17, Guo15, RS16a, St¨u15, XLL+17].

strong-constraint [RS16a].

Strongly [WE15, ANL+16, CLS+18, GC17, Iwa15, LGH+18, SDM+17, TW17, Tsa15, Tsa16, YS15, Zau16].

strongly-coupled [GC17, YS15].

Structure and strongly-coupled [GC17, YS15].

Structural [ADE+17, BQCG17, MN18b].

Structure-preserving [SKO18, CQL+17, MD17].

structured [Bal15, FGLW18, FLHA17, GBR15, iI15, LSZ18, MSD+17, PF15, RB16, WHEK18, XWZ+18, YFKS15, ZJ18].

structured/unstructured [XWZ+18].

structures [BC18a, BB15, CGSS18, CWWZ17, DCA+16, DJV+18, FBG15, GC17, GBS15, KML18, KH18, LDL+16, LSS16, Lin16, MHI15, NJ15, PEVG18, RPNP18, SSL+16a, SWZ17, TBLM15, VCNP18, ZHWQ18, ZBZ+18].

studies [DD16a, EH14, EH15, XS15].

study [BTA17, CX15, CCZ15, DNOP15, DLS15, ED16, HM16a, Hu17, KMD16, KGS17, LHY+19, MOAA15, MVZ16, MC17, NH17, PR16a, RS15a, DD17c, SCQP16, St¨u17, TK15a, VM15, WMM+18, WHZ18, XTYL18, YXF+16, ZC18, dTP16].

Structures [SKO18, CQL+17, MD17].

structured [Bal15, FGLW18, FLHA17, GBR15, iI15, LSZ18, MSD+17, PF15, RB16, WHEK18, XWZ+18, YFKS15, ZJ18].

structured/unstructured [XWZ+18].

studies [DD16a, EH14, EH15, XS15].

study [BTA17, CX15, CCZ15, DNOP15, DLS15, ED16, HM16a, Hu17, KMD16, KGS17, LHY+19, MOAA15, MVZ16, MC17, NH17, PR16a, RS15a, DD17c, SCQP16, St¨u17, TK15a, VM15, WMM+18, WHZ18, XTYL18, YXF+16, ZC18, dTP16].

studying [BLC+17, KES18].

Sturm [KADE15].

Sub [Wil18, Ani16, BVG+16, BTTG17, BTTM18, BKS18, BJ16, DZ16, DL16, GSS15a, LW17c, ILLNS16, MAH16, MMW15, PxRS17, SPCH16].

sub-cell [BTTG17, BTTM18, DL16, PxRS17].

sub-cycling [SPCH16].

sub-diffusion [GSS15a, LW17c, ILLNS16].

sub-element [MMW15].

sub-filter [BJ16].

Sub-grid [Wil18, Ani16].

sub-grid-scale [MAH16].

sub-points [DZ16].

sub-scale [BKS18].

sub-structure [BVG+16].

subcell [BD17, YK18].

subcooled [JSVD17].

subcycling [SAOW17].

subdiffusion [ADH+16, ZZK16].

Subdiffusive [NHA18].

Subdivision [LDL+16, CZJ17, PXXZ15, PCX17].

subdomain [vdLJLV16].

subdomain-levelset [vdLJLV16].

subdomains [GDA16].

subgrid [DLL17, PD17, WB17].

subgrid-scale [DLL17, WB17].

subject [Cha16].

subjected [CG16].

subliminal [BK16a].

submerged [ZBZ+18].

subordination [NHA18].

subset [CL17].

subsonic [CPS17, PWC18a].

subspace [BTD16, CN16, GRT18, Par15].

subspaces [AdSS+15, CELI15, GWC17].

substrate [FKY15].

substrates [LD15, YFKS15].

subsurface
[AVT17, DGW18, JD19, ST16, TD16b, TBLM15, YNW17]. **subsurfaces** [DGMT17]. **subzonal** [SO16]. **subzone** [SO15]. **successive** [YCPD15]. **such** [ELH\textsuperscript{+}16]. **Suitable** [DB18, CS17a, GM19, Sti16]. **suited** [MBM\textsuperscript{+}18]. **sum** [EMZ16, Ike18]. **Suitable** [DB18, CS17a, GM19, Sti16]. **suited** [MBM\textsuperscript{+}18]. **sum** [EMZ16, Ike18]. **Summation** [MN04, MN17, RÖ\textsuperscript{+}16, DBZ17, FN17, GWK16, GKE15, LNM18, NPP15, NN17, NR17, NG17, NG18, PS15b, RÖ\textsuperscript{+}17, Ran18, RWN18, RN18b, SPB18, LKN17]. **Summation-by-parts** [RÖ\textsuperscript{+}16, DBZ17, FN17, GWK16, LNM18, NPP15, NN17, NR17, NG17, NG18, PS15b, RÖ\textsuperscript{+}17, Ran18, RWN18, RN18b, SPB18, LKN17]. **super** [Fed17, SLH18, SSM\textsuperscript{+}17]. **super-convergent** [SLH18]. **super-hydrophobic** [Fed17]. **super-resolution** [SSM\textsuperscript{+}17]. **superconducting** [FBC\textsuperscript{+}16, PK17]. **superconductivity** [GS15b]. **superconductors** [LL19, SKP\textsuperscript{+}15, SSL\textsuperscript{+}16b]. **Superconvergence** [SZ15b, GSS15a]. **Superconvergent** [GP17]. **supercooled** [RW15b]. **supercritical** [KTN15, PSS17, TK12, TK15b]. **supervised** [PT17b]. **support** [AEL\textsuperscript{+}17]. **Suppressing** [NT16]. **suppression** [MAP17]. **Surface** [BC16d, TP\textsuperscript{+}16, YT17, AAL15, AASPT18, AZ17, AS17, AEL\textsuperscript{+}15b, APT17, Ani16, BJWZ17, CCHL15, COV18, CSG17, CG16, DDV18, DKT\textsuperscript{+}15, D\textsuperscript{+}15, EJZ17, FRL15, FM\textsuperscript{+}17, FP\textsuperscript{+}17, FKY15, FP\textsuperscript{+}18, GOR17, Gen15, GG15, GL17, G\textsuperscript{+}17, G\textsuperscript{+}16, HHA15, H\textsuperscript{+}16, HL\textsuperscript{+}16, HKS\textsuperscript{+}16, JRPP15, Lau17, LC17a, LLY18, LS\textsuperscript{+}15b, LWC17, LEB\textsuperscript{+}17, MML17, M\textsuperscript{+}15, M\textsuperscript{+}16, MHS16, NWKC16, DM18, QW18, RZ15, Say17, Say17b, SAK18, SL\textsuperscript{+}16, TBO\textsuperscript{+}16, WX17, XY\textsuperscript{+}16, XX\textsuperscript{+}17, XY17, XS\textsuperscript{+}17, YFK\textsuperscript{+}15, YCS\textsuperscript{+}17, Z\textsuperscript{+}18, Z\textsuperscript{+}16]. **Surfactant-dependent** [G\textsuperscript{+}15]. **Surfactant-laden** [S\textsuperscript{+}19, ST18c]. **Surfactant-polymer** [DD17a]. **Surfactants** [BG16b]. **surrogate** [KSV\textsuperscript{+}15, PK\textsuperscript{+}17, SGC\textsuperscript{+}17, SGC\textsuperscript{+}18a, TCA16, TB18, WL16, Z\textsuperscript{+}18]. **surrogates** [WLL16]. **survey** [Shu16]. **susceptibility** [DKTH15]. **Suspension** [CS\textsuperscript{+}15, CV18, FKY15, IML15, TMH18]. **suspicions** [BRK\textsuperscript{+}18, BLG\textsuperscript{+}16, DKPC15, GLT\textsuperscript{+}18, KQB18, LRZ17, NR17, QB16, WB16]. **swarm** [LY15]. **swarming** [GH15]. **SWE** [CV17]. **sweeping** [DG16b, EFT15, EG16, KWLQ17, LQB16]. **swept** [AW16, MN18a]. **swimmer** [LY19]. **Swimmers** [SCQP16]. **swimming** [BI16, PB18]. **switch** [DWR18]. **switching** [HSK\textsuperscript{+}15, Zad11]. **Sylvester** [HO15]. **Symmetric** [LI19, BBF\textsuperscript{+}17, G\textsuperscript{+}18, GL17, LMC16, Loh17, RÖ\textsuperscript{+}17, RZ17, MRR\textsuperscript{+}18]. **Symmetry** [PLL\textsuperscript{+}15, LWC\textsuperscript{+}17, OV17, VW16, WV18]. **Symplectic** [EBQ15, MW17a, SC\textsuperscript{+}17, Web14, ZJS15, CHZ16, C\textsuperscript{+}17, CHLZ17,
GAN$^+$16, GZY16, LW15b, SL16c, Tao16, TPTT18, ZZZ$^+$16. **Synchronized** [LK16b]. synthesis [KH18, MCS16]. synthetic [KH15, SG18]. system [BMT16, BZ16a, BPTA16, CCZ15, CV15, DDD17, DLM18, DLMDV18, EL17, FDS$^+$15, FS15, GX15, HK16a, IM17a, KKS15, KKS16, KGL10, LCK16, LMKS15, LMK17, LAEK18, Lu19, LLLN18, LRG01, MDVM16, MN16a, MRN16, MP16, NBH18, SHL15, SOS19, TC15a, TK15, VLB18, VLN$^+$18, WCVF16, YM19, YLLH19, ZM16a, ZWYW18]. **Systematic** [LYLK17, MPP15].

 systems [AGRB18, ABR16, BN17, BT16, Blo17, BW18a, BV18, BDV17, BRK17, Cac15a, Cac15b, CGS18, CFG16, CB15, CTJ$^+$17, CQL$^+$17, CLS$^+$18, CLM15, Cos16, Cot18, DL18a, DB16b, EBQ15, EFT15, EJMI18, FDI17, FOF15, FBF15, GAN$^+$16, GKMS17, GS18, HMK16, HM16a, JL18c, KBK15a, KNS15, KM16b, KML18, LMS17, LS15b, LPB17, LYLH19, ZM16a, ZWYW18].


 techniques [CSN18, GWB$^+$15, HRL18b, KA18, DV17, MDM$^+$15, QWXZ17, SDJU15, SGC$^+$18a, ZSL$^+$19]. technologies [ADE$^+$17]. telegraph [AR16a, Ata15, HB16, KA15]. telegraphic [GVCCHH18]. Temam [BPD19].

Temperature [DJD$^+$17, AJW17, Gen11, Gho17, LL19, NF17, SSM15, TCS16a, ZV16]. temperature-dependent [Gen11, Gho17]. temperatures [DJD$^+$17, Lap16, TTM$^+$16]. Tempered [SMC15, Beg15]. temporal [DL18b, GH17a, MSG18a, MM16b, MS18c, PKK18, SKF15, WMY16]. Ten [MKC17]. Ten-Moment [MKC17]. tension [AAL15, AASPT18, APT17, An16, BCD16, CG16, EJZ17, FMRZ17, FP18, GOR17, HKS$^+$16, JRPSS18, Say17a, Say17b, SAK18, TP16a, YCS$^+$17, ZZKF15]. tensions [WX17]. Tensor [CRZ17, DM17b, GMS16, MZTS16, VBL$^+$16, ABFR16, BDMC15, BDOK17, BVT18, EL17, Fa16, GKM17, GJS17, GL18, GL17, HLL$^+$18, LB15, Loh17, LY15c, OS16, PP18b, RO16, RBD17, WN17]. tensor-based [OS16].
Tensor-product [DM17b, PP18b]. Tensor-Train [CRZ17, GKMS17, GJ18]. tensors [Jer19, LBTCG16]. term [ATZ16, ADOP18, BZ15, BT16, FRW16, GZY16, JLLZ15, MDP+15, NL17, Tow18, WYA+17b]. terminal [Die15].
terms [DMTB15, EG17, FSWW17, HS18b, LVTR15, NMM16, SL16c, VAD17].
ternary [ARF18, ZDGW16, ZWYW18]. terrain [SWMD17a, SWMD17b].
terrains [MRK15]. tessellation [SC16]. test [KDF15]. testing [Ani16, OTS17, ZA15a]. tetrahedral [AG18, BCST17, MWB+15b, MW17b, TD16a, ZQ17]. tetrahedron [WR16].
textural [GHP15]. th [LHS+18]. their [Beg15, DLC15, FFW17, HKH+16, JL15, LIW18, MKYZ17, WX17].
theoretic [LSWF16]. Theoretical [VPN15]. theories [MGKG17]. Theory [CDC17, CDDL19, DG16c, HSK15, KADE15, KADE17, LLL16, ADFG17, AKZ16, BEJ15, GYZ19, LWC17, LW17d, MW16b, NGY+17, OLD+16, OLB+17, RXSG15, RXS16, SDFA17, Sto16, XZT18, ZLH+17, GS16].
type-based [GYZ19]. Thermal [ST15, AABD15, Anii19, BGJ+15, CBN+16, DPW+15, EDK19, FST15, HGN17a, HGN17b, HCW15, LHM16, Lap16, LNM15, MRM16, PBA+15, SSC+16, SKO18, SSM15, SS17c, TBP11, TM18, WSY16, XZT18, YYY+16]. thermal-fluid [YYY+16].
thermo-mechanical [LMC16]. thermoacoustic [AMJ16].
thermocapillary [LD15b]. thermochemical [MPP15]. thermodynamic [DC18, LB17]. Thermodynamical [LF17b]. Thermodynamically [KS18b, Don18]. thermodynamically-consistent [Don18].
thermodynamics [AZK16]. thermomechanical [Heu17, KYKS19].
thermostats [Dav10, Dav15, LS16a]. thermoviscous [DSS18]. thick [BGPS16, SP16a, SNA+16]. thickness [DGHP17, dTP16]. Thin [ Pas15, AA117, AJP15, DGP17, Fuj19, GLS15, GC17, JT16, KHP17, LVB+15, MTK15, QYF15, SF18a, X15]. Thin-film [Pas15]. thin-walled [FL15]. THINC [LH17b, QWX18, XX17]. Third [CH16, GZY16, HW16b, WKPS18, CC15, CHJT17, DY19, MN15, NL17, PX16, VK16, ZLFW18, ZQ17]. Third-order [GZY16, HW16b, WKPS18, CHJT17, DY19, MN15, NL17, PX16, VK16, ZLFW18]. Three [AEL+15b, Bai15, BGJ+15, GSI5a, LMSK17, ABI17, AB16b, APT17, AJW17, BHS18, BKP16, BOA17, CWF16, CC15, CP16, CZJ17, CB18b, CGRV17, CM18d, DS15a, DS15b, DvW15b, FB17, FST15, FPDT17, GGL+17, GT19, HN17a, IDS15, IM15, JGS16, KF15, KA15, KCW17, KSV18, KS15b, LG017, MHL17, PHR17, PCN15a, PCN15b, PR16b, RVZ15, RG15, RDG17, RKR17, Rod18, SSVL18, SHKL16, STW16, SSA17, TD16a, TSB+18, Tre16, Vee16, VCNP18, WYS15, WHY17, YSW15, ZL15a, ZYW16, ZW16, ZCL17, ZL15c]. three-component [STW16].
Three-dimensional [AEL+15b, LMSK17, AB16b, APT17, BOA17, CP16,
CZJ17, DvW15b, FPDT17, GGL+17, GT19, IDSG15, IM15, JGS16, KF15, KKW17, KS15b, LGO17, MHL17, PCN15a, PCN15b, PR16b, RG15, RDG17, RKRGW17, Rod18, SSVL18, SSA17, TD16a, TSB+18, Tre16, VCNOP18, WSY15, WHY17, YSW15, ZL15a, ZYW15, ZCL17, ZL15c]. three-field [CWF16, CC15]. three-material [PR16b]. three-phase [CM18d, FB17, GGL+17, ZL15c]. Three-point [GS15a]. three-scale [ABI17]. three-temperature [AJW17]. threshold [EJZ17, XWW17]. thresholding [WLWW17]. through-flow [YTW15]. Through-the-wall [CW16, CW17]. tight-binding [PD16b, YZT+18]. tightly [TPT16, TT17b, TSN16]. tightly-coupled [TPT16, TT17b]. tiling [Tav16]. Time [ALO18, AMP16, BOA17, BCB15, BG16a, DOO17, FM15, GKN17, KBK15b, LHY17, MM16b, MM15, MH19, MMMS15, MDP18, SPB18, TRL15, Vit18, AM17a, AW16, Ali15, APT17, ATF16, ADHN15, AR16b, AEAM15, AHKT17, AWJ17, Ata15, BJO18, BHL15, BZ16a, BG19a, BZ15, BDBEE15, BK18, BCM15a, BSP18, BHE+17, BSWG15, BFGNDR18, BD15, Brec18, BC16c, BTWY15, CR17, CDL15, CGS18, CXH15, CLC16, CHY16, CXL, Che18, Cods17, CGLI18, CGJ19, Chu17, CLQ17, CLP16a, CC16c, CLP16b, CCGH19, CLMZ17, Cui15, DKPC15, DNOP15, DNHB15, DvW15a, DM17b, DGL+15, DL18a, DSP18, DLL+17, DL18c, DBMB15, EMM+18, ET15, EAR15, EN17, FW18, FBL17, FL15, FJLC18, Fid17, FN17, GAN+16, GSN16, GSS15a, GS15a, GZY16, GFC18, GMP15, GP16a, GSK18, GHJ15, GH+16, HW15a, HB16, HEP15, Hig15]. time [HL16b, HML17, HNYC16, HTBG15, IKS19, JSP16, JLLZ15, KKP15, KNS15, KP18, KRLT15, LH16, Ler15, LZ15a, LZ+16, LW17, LIW17, LIW17, ILN17, LW17d, LW17y, LW18, LY19, LCDF16, LM19, LMM17, LPR19, MBSS15, MN18a, MWD16, MAM16, MP15a, MMP18, MM17, MH17, NB19, NHA18, NDBC17, Nor15, OBI7, PLC18, PLH18, Par18a, PHRA16, PT17a, PTMF18, PME+15, QB16, RTG18, RS16a, RGPS17, RM16, RRD16, RN18b, RL17, SXBB15, STEK17, SS15, SWZ15, SWLZ15, SW16, SWPS17, SSM+17, Shu16, SW18b, SZ17, SWH17, SP15b, SPRW15, SC18b, SP16c, SWZ17, SS18c, Sub15, SAO17, TBH17, Tav16, TD16a, TD17, TD18, TSH17, TP17, Tie16, TBO+16, VL15, VLN+18, VK16, WJD16, WSO16, WBM15a, WR16, WZ18b, Xie15, XXR18, XY18, XCH15, YLA15, ZKB16, ZZDB15, Zha16, ZYL16, ZBZT17, ZLL+17b, ZZH16]. Time- [DOO17]. Time-accurate [ALO18, BOA17, MH19, MDP18, BD15, DL18c, EMM+18]. Time-dependent [BC15, GKNA17, KBK15b, AWJ17, BHL15, BOA17, BSWG15, CX16, Chu17, CLP16a, DKPC15, DBMB15, GSN16, HL16b, IKS19, LZ15a, LILS17, PLC18, RR16, STEK17, SS15, Shu16, Sub15]. time-differencing [WBM15a]. Time-domain [BG16a, CLQ17, GFC18, GHJ15, KP18, LH16, MMP18, MH17, NB19, SWZ17]. Time-filtered [MM16b]. time-fractional [AEAM15, Ata15, CXL, DGL+17, GSS15a, GS15a, GMP15, HB16, JLLZ15, KNS15, MP15a, XHC15, YLA15, ZKB16]. time-harmonic [BG19a, DGL+15, ET15, LY19, RM16, SC18b].
time-space [AHKT17, BZ15, BK18, KLR15, MN18a]. time-spectral [MM17]. Time-stable [SPB18]. time-staggered [LCF16].
time-step [DvW15a, FW18]. Time-stepping [MM15, DNBI15, LW17d, Tie16]. times [LM15c]. timescales [Cos16].
timestepping [KMS+18]. timesteps [CS17b].
Toeplitz [KNS15]. Toeplitz-like [KNS15]. TOKAM3X [TBC+16].
tokamak [BDB+17, FH17, GBC+18, HJC+16, KYPK15, MP15b, MP16, TBC+16, WSU+15]. tokamaks [LBZ16].
tolerant [AD17].
tomography [KBR17, MS15a, NLK+15]. tools [LKK17b, VWV17].
topography [AHKT17, BZ15, BK18, KLRT15, MN18a]. topological [GYZ19, LDHJ15, Par17]. Topology [CWWZ17, MKV+17, NSL16, QDRB15, YYY+16, DK18a, DK18b, GMA18, LSD+17].
tori [ZYW16]. toroidal [OC18, RKH15]. torques [NPB17]. Torrey [BTWY15, ZBZT17]. Total [HW16c, BKL17, DLMV18, HW15c, ZC15].
trace [OKE17, WLK+16]. tracer [BKKJ17]. tracers [HM17]. traces [ABT17, HLL+18, ZND16]. tracing [DC18a, JH15]. track [RRL19].
tracking [AP16, BMRA+15, CTJ+17, Fan19, FL18, Gro18, HM16b, IM17a, uHKGK19, PR17b, SCJ+18, SR18, dJRP+15]. traction [FRL15, LXC+15, MS17].
traffic [HY17]. Train [CRZ17, GMS16, GKMS17, GJ18, MZTS16]. trajectories [LDHJ15].
Trajectory [TD16b]. transceivers [GW16, BKL17, RLKV17, RRV+17, RY15]. transfer [ABT17, BPTA16, CPV16, LSR16, MOAA15, Noc15, SK15b, TBHG18, UWH17, VG18].
transistors [HCW15]. Transition [ABG+18, BGK15, DLP19, FMZ17, GLZ16, GZ18, HHM17, LS16c, RZ15, YR15].
translational [BS15a, FNP17, XWZ+18]. transitions [CCP19, LJJ15, PEB15].
translational [BK18, WYLX17]. Transmission [SCS16, BHMS18, DCA+16, DJV+18, DGL+15, HK18b, HSSZ16, JP17, NL18b, SC18b, XJG18].
Transmission-line [SCS16]. Transparent [PE16b, VA15, BTS17]. Transport [BCST17, SZY16, AAI16, AEVW18, ADK+17, BK19b, BHDD18, BIR18, BBKS18, BTA17, BKK17, BCG+15, BWW15, BRK15, CPT16, CIY+15, CSLL15, CSK+16, CK16b, CCG17, CCH19, DAO17, DS15d, EG18b, FS18, FL16, GMP16, GBD+15, GW16, HR18a, HR18b, Hiv18, HL16b, HW15b, JSDV17, JXZ15, KMF16a, KFL17, KL15, KGB+15, KGP+17, KLG18, LML16, LTK15, LLS15, LT15, LBZ16, LKSM17, Loh17, MG15b, Mas18, MXL16, MP15b, Moc17,
OMLdL16, OWKE16, PJE+16, PHRA16, PGM17, PBA+15, PDRB17, RFGSV15, RMC15, RL18, Sch16a, Sch16b, SWS+18, SWG+17, SW18a, SFT16, SWMD17a, SWMD17b, SU15, SPW18, SSM15, Spe15, TWM18, TSB+18, TSFS17, VST16, WWR16, WB17, WKOE17, WBB16, WSH19, XCM17, YB17, ZA15b, ZHA17b, ZHWQ18, ZM16b, ZCL17, vdKK16, PC19]. transport-velocity [ZHA17b]. transported [BMC18a, Ger17]. transpose [ZD15a, CGJ16]. transpose-free [ZD15a]. transverse [DvB17, ZZW+16]. Trapezoidal [AHKT17]. traveling [Yas17]. traveltime [bWA15]. Treating [BLVC17]. Treatment [CNG99, SG19, CB18a, CNG17, CLL17, DD18, HL15a, KPKG15, LFRH17, LS15b, LBZA16, MF17, MLB16, OvdHVH16, PSL18, SMLB15, TLH15, TTN+16, Zha16]. treatments [HH16]. Tree [JdR+18, HS17b, Jer19, KDKP15, MGBG16]. tree-based [MGBG16]. treecode [CG18a]. treecode-accelerated [CG18a]. Trefftz [BBF+17, LK16a], trends [PSMPG17]. tri [KNS15]. tri-diagonal [KNS15]. Trial [RSSSE18]. triangular [Bar18, BDZ15, CHY16, CXY19, CLFL17, GKB18, HL15a, HL17, KL18a, LTB17, LAEK18, MN15, Pas16, QDH15, XP15, ZLFW18, ZPW18]. triply [HN17b]. troubled [FS17b, RH18]. troubled-cell [FS17b, RH18]. TRT [KGT15]. truncated [LB15, LT17a, PKN17]. truncating [FY+15]. Truncation [GR15, Hwa16, RRMF+19, ZFZL15]. tsunami [BHGK18]. tsunamis [dlAC17]. TT-M [YLLH19]. Tucker [LMGG17]. tumor [LTW18, TT17a]. tumour [dlCGCA17]. tunable [LYW17]. tune [Ant17]. tunneling [DS18d, HCW15]. tunnelling [LYDB17]. turbines [CGSS18, MBST17]. turbomachinery [dLDG+18]. turbulence [BPM18, CGSS18, CM18a, CDX18b, HK15a, JYY18, KH15, KYPK15, LT17a, MA16, MSP15, MMS17, OMYvdP+15, SS+15, TBC+16, VBF15, WN17, WMM+18, YWS+16]. turbulent [BBK16, BS15a, BKG15, BFTVC18, CCBdL15, CL16, CV16a, ESAS16, FKW18, FNP17, FMPT18, FBM16, KYUO15, KTN15, KCS+17, KFWK17, KM15, LE16, LTB+17, LMM18, LDHJ15, MM16a, MP17, MK15, OVP15, PM16, PGGW18, PEVG18, PWP15, RGW18, SWS+18, SK18, TKP16, UG16, WGI16, WMYG16, WS+15, XWL+16, XS19]. TVD [Sid18, BR15a, DvW15b, Heu17, ZJLC15]. Two [CHCC18, JSY15, LEB+17, RMA17, SAH17, Vab18, ACRG15, AASRT17, AA16, Am15, AC17, Ani16, ADOP18, BJO18, BAGK16, BVG+16, BHJ18, BXY17, BGN15, BM19a, BH18, BAVC17, BLS16, BHMS18, BTWY15, BKKRB16, CBSN18, CPT16, CDM18, CS16a, CGK17, CCZ18, CLZ18, CCZ15, CS18b, CS17b, CG16, CM18c, CLMZ17, CYWL17, DS15a, DS15b, DG18, DCA+16, DLM18, DGMT17, DG16c, DL17, DHH+18, DvB17, DL18c, EH18, EDvW17, FR18, FGL16, FS16, FS17a, FG19, GZ17, GN16, HHA15, HTFL18, HHN17a, HLML17, HML16b, HTMP17, HC17, HTBG15, ID17, IGGQ15, JPL15, JS16, JS17, JJ18b, KSM19, KJ17a, KGS17, KS16c, KS18b, LVTR15, LW18, LPG16, LM16, LPR18, LZT17, ILLNS16, ILNS17, LSD+17, LD15, LSTkM15, LDGH16, MNG15a, MA19, MDDM17, MD18, Mule18, Niu16,
two-component [DG16c].
two-channel [DG16c].
two-dimensional [JSY15, LEB17, ADOP18, BVG16, BLS16, BTWY15, CCZ18, CLZ18, CLMZ17, CYWL17, DCA16, Edw17, FS17a, HTFL18, TG15, RZ15, SH16, SRBB18, SYM17, SX15, SWZ17, TSH17, TBO16, UWH17, VNA15, VSM16b, WRL16b, WE17, WHE17, WPGK17, WG15, WKSS15, XSL18, XZT18, YSY17, YM17b, ZMF15, ZLL16a, ZLZ17, SBZ17, dJRP15, tEDKT17, YK18].
two-field [CS16a, XZT18].
two-fluid [DG16c].
two-grid [ACJ17].
two-group [JPLL15].
two-layer [CS18b, PM16].
two-level [Vab18].
two-miscible-layer [SHL15].
two-node [JPLL15, SG17b].
two-particle [PSV18].
two-phase [ACGR15, AASRT17, Ani16, BGN15, BM19a, BAVC17, BHMS18, BKKRB16, CFWS18, CMD18, CG17, CS17b, CG16, DG18, DGM17, FGL16, HHA15, HTMP17, HTBG15, JS16, JS17, JJ18b, KJ17a, KS16c, KS18b, LVTR15, LW18, LPGT16, LSD17, LDG16, MNG15a, MA19, MD18, PL18, PSB18, PG18, PG17, RG16, RG17, RZ15, SHA16, SRBB18, SU18, TH18, TN18, TT16, WKSS15, XSL18, YSY17, ZZ17b, dJRP15, tEDKT17].
two-scale [SAH17, CPT16, LMC16].
two-sided [KSM19, SYM17].
two-species [CCZ15].
two-stage [BJO18, DL18c, LZT17, PXLL16].
two-step [BH18, HC17].
two-way [EH18, HM16b, ID17, Mue18, PAL16, QYF15].
type [AA16, AJ15, ADOP18, BG19b, BDZ15, BTVC16, CC17b, sCYxL18, DG16a, DL18c, GT18, HH15, LDG16, LHQ16, MDP15, RM15, Rod17, SY16, Spe15, WBB16, XLL17, YZW18, ZHS18, ZS18, SW17a, SK17].

Uehling [PSV18, Yan17].
Uhlenbeck [PSV18, Yan17].
ULPH [TL17].
ultra [CT17, DLN15, ION17].
ultra-relativistic [CT17, ION17].
ultrasound [HTBG15].
un-split [MM15].
unaveraged [ALM15].
unbounded [BN15, BLS16, CLC16, FH17, GWC18, KADE15, KADE17, LZ16, LC16, NGY17, SHW18].
unbounded-periodic [SHW18].
Uncertain [LS16, BC18a, FDK17, SS18a].
uncertainties [AZK16, XWW16].
Uncertainty [CZH15, GS18, SS17b, AKZ16, AÁPB17, BHS18, BHJ15, CC17a, CE18, CQ15, CEL15, DH18b, EH14, EH15, FC16, HAP15, HI16, IPIS15, JS17, KR1W17, KSV15, KB15b, LS15c, LLI16, LDS18, MS16b, MS16, PE15, RM15, RS17, TT17a, TBG16, TB18, WL16, WTX17, XS15, ZZ18, vdBKD17, MB16].
uncertainty-based [FC16].
Unconditional [SSZ19].
Unconditionally [GG18, SSL17, Tav16, WSF17, BC16c, CGJ19, GX15, HW15a, WCCB16, Yan16b, YH17].
unconformities [ST16].
under-resolved [FWK18, Kim15, KCS+17, MSP15, MMPS17, WMM+18].
undergoing [GLS15].
underlying [ATF16].
deresolved [FBM16].
Uneven [Fal15].
Uneven-order [Fal15].
unfitted [ZSX17].
uniaxial [MDT16].
unidimensional [Heu17].
unification [Sid18].
Unified [BDAA+18, PCBG18, WLX17, AB18, AB16a, CLMZ17, FL18, LB15, LYC16, PL16b, SS16b, SYM17, WR15, XD18, YL16].
Uniform [An17, AB16a, CLMZ17, FL18, LB15, LYC16, PL16b, SS16b, SYM17, WR15, XD18].
Uniformly [CLMZ17, LN15, BZ16a, LAA16, XQ17].
completely [HW15a, WD17].
unit [DJV+18, WC18].
Units [GP18].
unity [FLT18, NJ18].
Universal [TKB+15, YS18b, BL18].
unknown [RZ18, WL18].
unresolved [BLG+16].
Unsplit [BP18, CSH15, FGL16, OD17].
unstable [CG18, SW17].
unsteady [MM16b].
updated [TL17].
\textit{unstructured-mesh} [KS17, ZSS15].
\textit{updated} [TL17].
\textit{upscaling} [CEL+18, VCE19].
Upwind [FRV16, AGB15, AB18, BZ19, BK18b, CKK18b, Fun16, FS18, HC18a, LMK15, LAE18, Mat17, MO18b, YFJ18].
upwinding [Sub18].
UQ [TB18].
Use [MTL17, VBG16, BT17a, DA17, DCC16, FG17, HS17b, LSF16].
Using [CG15, KV16, SNB+15, ATM+18, AGC19, ADG17, AM17, AK16, AN15, ATF16, ABT16, BVM+17a, BCS17, BJF18, BCST17, BD15a, BK17b, BK19a, BST+18, BJ15, BDKK17, BKN18, BAVC17, BLS16, BRW15, CR17, Cap18, CBS18, CI17, CC17b, CE18, CBB15, CZ17, CWZ17, CCK+18, CRP+16, CLL17, CEL18a, CSK+16, CLM15, CV16b, CLP16b, CGG17, CGCH19, DD17a, DD15, DG16a, DSM+16, DJV+18, DPO16, DC18a, DMS17, Dod17, Dom18, EST17, EE+15, ECC18, Eva18, ED17, FGL16, FB16, FP16, FSB16, FRV16, FN17, FYC+18, FK15, Gam15, GBvZ16, GV17, GS18, GGL+17, Gno17, GFV18, GRS15, GBS15, GSN17, HED+16, HB16, HLL+16, VX16, HW16a, HU18, HQ16, HLL+18, Hue15, JW15a, JES15, JL18a, JL18b, JWH16, KAR17, KW15b, KK17a.
using [KP15b, KDPK15, KSI17, LMIH16, LTB16a, LDOK17, LPG18, LYB18, LWLC17, LT17a, LMBZ15, LHY+19, LR16, LC17b, LT17b, LVL18, LMGG17, LSI16, LBB+17, MBB15, MM16b, MNG15a, MG15b, MH19, MPP15, MTJ18, MCGS16, MFB18, MSP15, MSB+16, MM18, MC17, MdlLPCC19, NMM17, NCP+17, NLS16, Nor15, OLHD17, OKE17, PK17, PPCK17, PD16a, PKLS17, PR16a, PGGW18, PS15b, PF15, PD16b, QLS+19, QLF16, RPK17a, RPK17b, RC18, RS17, RG15, RVK+18, RPL+18, RPC+18, SG17a, SSVL18, SS17b, SAK18, SRBB18, SW18a, SBP18, SFT16, SWMD17a, SWMD17b, SCQP16, STW16, SLL17, SDM+17, SW18b, SWHV16, SC16, SGT16, SHP+16, SS17c, SD18, TK12, TK15b, TND18, TVB+16, Tou18, TO15, TBLM15, VLA18, VSM17, VBL+17, VNN+18, WWR17, WBC16, WS15a, WF17, XL17a, XDSX17, XP15, YYY+16, YSC+17, YCP15]. using [YXF+16, Yan17, YL16, YC16, ZS16, ZB15, ZD17, ZJ18, ZZPH18b, NMM17, NCP+17, us]

utility [VWV17].

Uzawa [WSF17].

CHS17, CCM17, DRP+16, DB16a, DMS17, DDH+18, DVP+16, DL16, EKSS15, Eng18, EDvW17, FS18, GOR17, GHL15, GLK19, HKW19, HSLQ16, Hsu17, HMFJ18, HY16, Hu17, Ism15, IGQ15, IDS15, IM17b, JME18, JW15c, JW16, KKH18, KW15b, Kla15, KS17, LLD+16, LN17, LAL18, LX16, LL16b, LZ17b, LY16c, LJ16, LHGF16, MAK15, MDHC15, MH18a, MMvR18, MRK15, MH18b, MSS16, MLB18, NJP17, Nis15, Nor15, PxRS17, PL18, PHÖ+16, PS16, PR16b, Pei16, PWP15]. volume [QLS+19, RMA17, RKKRGW17, RBL16, SPX+18, SAEF17, SRBB18, SY16, SKO17, SLY16, SYM17, SDH+16, SKG17, SBH19, SFP16, SDW18, Sub18, Tav15, TMT17, TND18, TVB+16, Tso18, VSC18, WR15, WRL16a, WRL16b, WRPL17, XWL+16, XDvW17, XX16, XL17a, XDS17, XIM18, ZCHS15, ZZZ17, ZG18a, ZSL+19, ZQ17, ZXD17, vEKdB16, AAL15, BAVC17, CJ17].


Waals [PSS17]. wake [PEVG18]. Wakefield [MAM16, YXD+16]. wakefields [RMLvR18]. Walk [HHK15, AHDN15, BSP18, KC17b, MS15a, RFGSV15]. Walk-on-Spheres [HHK15]. walks [NHA18]. Wall [Don17, CW16, CW17, CV15, HL15a, HH15, MS17, NL15, PM16, PCN15b, Stü15, SGP17b, VM15, YS18b].

Wall-bounded [Don17]. walled [FCB15, FNGDMNR18]. Walsh [Gno17]. Wang [FJLC18]. Warburton [AMP16]. warm [SP16c].

Wasserstein [CCWY18]. Water [NMM17, NMM18, SP16a, TK16, TM17, ABT16, BC18b, FNGDN18, BHGK18, CV17, Cap18, CS18b, CSLL15, CLB+16, CE17, CSCM16, CK16a, CDV17, DA17, DMTB15, EL18, EDK19, EKE16, FS17a, GP16a, GIC18, GCVM15, HSM19, JJS15, KL18a, LMPS15, LPG18, LP18, LDW15, LMS15, LY16c, LMSK17, MDBC17, Mue18, NMM15, PP19, DM18, RW15b, Ríc15, SGC18b, SSMR18, SD16, TC15b, TSB+18, VST16, WWGK17, WWGW18, WG15, WBM+15b, YMI17b, ZA15a, ZED15]. Wave [Luc15, MT17, PS15b, AMN18, ABP+16, AMJ17, An17, ABH18, ADOP18, BJ018, BJ18, BNMI15, BG19a, BDBEE15, BH18, BGGM15, BTN18, CZW17, CGMH18, CDDL19, CSG17, CLQ17, DCA+16, DWG+18, DL18a, DYL19, DKK15, FS16, FKR16, GFG+15, GH17a, GFC18, GK19, GKA17, GP16b, HK15a, HSC16, HXB15, KS18a, KÁGR18, KLRT15, LC18, LHMB16, LC17a, LWGY18, LGB16, LT16b, LY16c, LK16a, LMM17, LQB16, MD17,
References


Ahusborde:2015:MSD


Aminfar:2016:FBL


Adrian:2017:HPE


Adrian:2019:RFC


Adimurthi:2016:GTN

REFERENCES


REFERENCES


Abgrall:2018:GFC


Afkhami:2018:TNM


Arias:2018:PEI


Angel:2018:HOU


Angel:2019:HOA


**Abdulle:2017:TSO**


**Ahlfeld:2016:SSA**


**Akhmetgaliyev:2015:BIA**


**Adam:2016:AHW**


**Antoine:2016:HOI**

[ABR16] Xavier Antoine, Christophe Besse, and Vittorio Rispoli. Highorder IMEX-spectral schemes for computing the dynamics of


REFERENCES


[ADOP18] Emmanuel Audusse, Minh Hieu Do, Pascal Omnes, and Yohan Penel. Analysis of modified Godunov type schemes

**Arcucci:2017:VDA**


**Acker:2016:IWZ**


**Amritkar:2015:RKS**


**Arqub:2015:CPS**

Ahmed:2015:CVD


Ahmed:2015:TDC


Ahmed:2017:CMF


Akkutlu:2018:MMR


Azis:2019:IBM


**Alvarez:2018:PEE**


**Abdulle:2015:RBL**


**Ameline:2018:AEE**


**Arshad:2017:TST**


Alikhanov:2015:NDS


Ahlkrona:2016:DCN


Aoussou:2018:IPC


Andriyash:2015:SUA


Algar:2017:EHT

REFERENCES

Almanasreh:2019:FEM


Asthana:2015:NLS


Alauzet:2018:TAM


Antoine:2017:ESC


Auclair:2017:INM


REFERENCES


REFERENCES


REFERENCES

An:2017:UDR


Anderson:2016:HOE


Aniszewski:2016:ITD


Anistratov:2019:SAM


Augustin:2016:AAH

Anonymous:2015:Ca


Anonymous:2015:Cb


Anonymous:2015:Cc


Anonymous:2015:Cd


Anonymous:2015:Ce


Anonymous:2015:Cf


Anonymous:2015:Cg

Anonymous:2015:Ch


Anonymous:2015:Ci


Anonymous:2015:Cj


Anonymous:2015:Ck


Anonymous:2015:Cl


Anonymous:2015:Cm


Anonymous:2015:Cn

REFERENCES


REFERENCES


REFERENCES


Anonymous:2015:Caq


Anonymous:2015:Car


Anonymous:2016:Ca


Anonymous:2016:Cb


Anonymous:2016:Cc


Anonymous:2016:Cd


Anonymous:2016:Ce

REFERENCE

Anonymous:2016:Cf

Anonymous:2016:Cg

Anonymous:2016:Ch

Anonymous:2016:Ci

Anonymous:2016:Cj

Anonymous:2016:Ck

Anonymous:2016:Cl


Anonymous:2016:Caa

Anonymous:2016:Cab

Anonymous:2016:Cac

Anonymous:2016:Cad

Anonymous:2016:Cae

Anonymous:2016:Caf

Anonymous:2016:Cag
REFERENCES


REFERENCES


Anonymous:2016:CCa


Anonymous:2016:CCb


Anonymous:2016:CCc


Anonymous:2016:CCd


Anonymous:2016:CCg


Anonymous:2017:Ca

Anonymous:2017:Cb

Anonymous:2017:Cc

Anonymous:2017:Cd

Anonymous:2017:Ce

Anonymous:2017:Cf

Anonymous:2017:Cg

Anonymous:2017:Ch
REFERENCES


REFERENCES


REFERENCES

Anonymous:2017:Cas

Anonymous:2017:Cat

Anonymous:2017:CCa

Anonymous:2017:CCb

Anonymous:2017:CCc

Anonymous:2017:CCd

Anonymous:2017:CCe
REFERENCES


REFERENCES

Anonymous:2018:Cb


Anonymous:2018:Eb


Anonymous:2018:Ebc


Anonymous:2018:Ebd


Anonymous:2018:EBe


Anonymous:2018:EBe


REFERENCES


REFERENCES

Anonymous:2018:EBr

Anonymous:2018:EBs

Anonymous:2018:EBt

Anonymous:2018:EB

Anonymous:2019:EBa

Anonymous:2019:EBb
REFERENCES

Anonymous:2019:EBc


Anonymous:2019:EBd


Antunes:2017:IPT


Altsybeyev:2016:AGL


Anand:2016:EHO


Adam:2016:HOC

REFERENCES


**Acosta:2015:NMC**


**Ammar:2017:MTD**


**Aguerre:2018:OFF**


**Acebron:2016:MCM**

REFERENCES


REFERENCES

Ahlkrona:2017:MAN


Ahmadian:2015:TMN


Almanasreh:2013:SFE


Almanasreh:2017:CSF


Anumolu:2018:GAL


Xavier Antoine, Qinglin Tang, and Yong Zhang. On the ground states and dynamics of space fractional nonlinear Schrödinger/Gross–Pitaevskii equations with rotation term
REFERENCES


REFERENCES


REFERENCES


REFERENCES

[Barnes:2018:CDP]

[Batty:2017:CCF]

[Bilger:2017:ETP]

[Buckinx:2015:MSM]

[Balogh:2017:CAM]
Biagioni:2015:RID


Benedetto:2016:HMV


Brock:2015:EIG


Barucq:2017:STD


Bandaru:2016:HFD

REFERENCES

Blanc:2018:VRM

Bartels:2018:MST

Berggren:2018:ABL

Bhardwaj:2016:PPI

Bertoglio:2016:SRB


REFERENCES


Kosala Bandara, Fehmi Cirak, Günther Of, Olaf Steinbach, and Jan Zapletal. Boundary element based multiresolution shape optimisation in electrostatics. *Journal of Computational Physics*, 297(??):584–598, September 15, 2015. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-
REFERENCES

Babae:2017:RBO


Bajars:2017:TPS


Balsara:2015:DFM


Balsara:2015:MRP


Brethes:2016:ANO

Gautier Bréthes and Alain Dervieux. Anisotropic norm-oriented mesh adaptation for a Poisson problem. *Jour-
REFERENCES

Boscheri:2017:ALE


Botti:2018:AHH


Bartholomew:2018:UFM


Blommaert:2017:PGO

REFERENCES


Benner:2017:FIS


Boscheri:2018:SOC


Besse:2017:AMS


Bandopadhyay:2015:CSP


Bretin:2018:MMC

[BDPM18] Elie Bretin, Alexandre Danescu, José Penumelas, and Simon Masnou. Multiphase mean curvature flows with high mobility contrasts: A phase-field approach, with applications to
REFERENCES


REFERENCES


Bochkov:2019:SPT


Bohn:2016:SGB


Bokil:2015:DRM


Bollada:2015:TDT


Beskos:2017:GMI


Beckstein:2017:ESE


Banks:2016:GDM


Berry:2016:SMC


Bilbao:2018:HOA


Beaudoin:2018:APM

Bolding:2017:SOD


Brehm:2015:LSI


Bonev:2018:DGS


Butler:2015:QUM


Banks:2018:GDA

REFERENCES


REFERENCES

188


Banks:2017:SPFb


Banks:2018:SPF


Bosma:2017:MFV


Bajc:2016:MAS


Bergmann:2016:BSS

REFERENCES

189


[BJO18] Yuming Ba, Lijian Jiang, and Na Ou. A two-stage ensemble Kalman filter based on multiscale model reduction for inverse problems in time fractional diffusion-wave equations.
REFERENCES


REFERENCES


REFERENCES


REFERENCES

193


REFERENCES


REFERENCES


Balsara:2018:ESO


Bispen:2017:API


Blonigan:2017:ASA


Binder:2015:GPR


Birk:2016:CAR

REFERENCES


REFERENCES


[BMPS18] Elena Beretta, Stefano Micheletti, Simona Perotto, and Matteo Santacesaria. Reconstruction of a piecewise constant con-

**Barlow:2016:ALE**


**Blazakis:2015:WCT**


**Balsara:2016:EVF**


**Birgle:2018:DDM**

Balsara:2017:MRP


Borah:2016:NSO


Bennett:2018:MBF


Barnett:2015:HOB


Besse:2017:DTB

Barral:2017:TAA


Boniface:2017:RRS


Bernede:2018:UMC


Botti:2019:HHO


Briggs:2016:SPI

J. P. Briggs, S. J. Pennycook, J. R. Fergusson, J. Jäykkä, and E. P. S. Shellard. Separable projection integrals for higher-order correlators of the cosmic microwave sky: Acceleration by factors exceeding 100. *Journal of Comput-
REFERENCES

Bao:2016:GTS

Braun:2018:RML

Berrone:2016:TEF

Berrone:2017:FSP

Bian:2016:AEB
Lei Bian, Gang Pang, Shaoqiang Tang, and Anton Arnold. ALmost EXact boundary conditions for transient Schrödinger–Poisson system. *Journal of Computational Physics*, 313(??):
REFERENCES


Basting:2017:EAM


Bidadi:2015:INV


Bidadi:2015:SDC


Bidadi:2016:CSD


[Bre18] James Bremer. An algorithm for the numerical evaluation of the associated Legendre functions that runs in


REFERENCES


REFERENCES


REFERENCES


Bukac:2016:LCS


Barbas:2015:DGM


Brennan:2018:DDC


Balsara:2016:TDR


Baars:2017:CPD

REFERENCES


REFERENCES


REFERENCES


REFERENCES


Castillo:2015:FST


Chacon:2016:CFI


Chakraborty:2016:SED


Cinnella:2016:HOI


Chakraborty:2017:EAB


REFERENCES


REFERENCES


[CCZC16] Duan Chen, Wei Cai, Brian Zinser, and Min Hyung Cho. Accurate and efficient Nyström volume integral equation method


Carmouze:2018:CRB


Christlieb:2016:HOP


Cusini:2018:ADM


Cleveland:2015:UHI


Coquerelle:2016:FOA

CG16] Mathieu Coquerelle and Stéphane Glockner. A fourth-order accurate curvature computation in a level set framework for two-phase flows subjected to surface tension forces. *Journal of Computational Physics*, 305(?):838–876, January 15,


REFERENCES


Christlieb:2019:KBH


Chalons:2017:ARL


Chaillat:2018:MBA


Corrado:2015:IWC


Chandrasekaran:2018:MSN

Chabot:2018:HOD


Clair:2016:MDF


Cai:2018:HOS


Corona:2017:IEF


Chou:2015:ELM

Yi-Ju Chou, Shih-Hung Gu, and Yun-Chuan Shao. An Euler–Lagrange model for simulating fine particle suspension in liquid

Carichino:2018:EBO


Calderer:2018:FSI


Casacuberta:2018:EES


Chen:2017:DSM


REFERENCES


Conroy:2016:HDG

Colton J. Conroy and Ethan J. Kubatko. hp discontinuous

Cotter:2016:EDG


Carvalho:2018:AAC


Chamarthi:2018:HOU


Cheng:2015:FSE


REFERENCES


[Cai:2018:PAV]


[CLY+15] Chen:2015:AFQ


Campos:2018:EAB


Chen:2018:ESA


Corot:2018:NNS


Correa:2018:NSM


Chiron:2018:CSF


Carpenter:1999:SCI


Carpenter:2017:CSC


Chen:2015:PAF


Chater:2017:SLS


Chiron:2018:AIA

L. Chiron, G. Oger, M. de Leffe, and D. Le Touzé. Analysis and improvements of Adaptive Particle Refinement (APR) through CPU time, accuracy and robustness considerations.
REFERENCES


[Cortez:2018:RSS]

[Cor18]

Costa:2016:MTM

[Cos16]

Cotter:2016:CAE

[Cot16]

Cottet:2018:SLP

[Cot18]

Chernyshenko:2018:HFV
Chen:2016:NDF


Colera:2017:EFD


Chekhovskoy:2017:NAS


Carr:2016:EDM


Carpio:2016:LAA


REFERENCES


REFERENCES


[CS16b] Peng Chen and Christoph Schwab. Sparse-grid, reduced-basis Bayesian inversion: Nonaffine-parametric nonlinear equations. Journal of Computational Physics, 316(??):470–503, July 1, 2016. CODEN JCTPAH. ISSN 0021-9991 (print),


[CSK+16] Benjamin Collins, Shane Stimpson, Blake W. Kelley, Mitchell T. H. Young, Brendan Kochunas, Aaron Graham, Edward W. Larsen, Thomas Downar, and Andrew Godfrey. Stability and accuracy of 3D neutron transport simulations us-


REFERENCES

Choi:2015:MQB


Cai:2015:ALB


Chen:2016:FOF


Charin:2017:MMI

REFERENCES


REFERENCES


REFERENCES


REFERENCES


Chen:2016:FMM


Chuenjarern:2019:HOB


Cheng:2016:DDG


Cheng:2017:EAN


Cui:2017:HWB

Xiongwei Cui, Xiongliang Yao, Zhikai Wang, and Minghao Liu. A hybrid wavelet-based adaptive immersed boundary finite-difference lattice Boltzmann method for two-


Casquero:2018:NBF


Chen:2017:REP


Chen:2015:SMM


Cheng:2018:HOC


Cai:2017:DPS

Dehghan:2017:UPO


Doisneau:2017:SLT


Davidchack:2010:DEM


Davidchack:2015:CDE


Diggs:2016:EMC

REFERENCES


[DBMB15] Max Duarte, Zdenek Bonaventura, Marc Massot, and Anne Bourdon. A numerical strategy to discretize and solve the


REFERENCES


[DD17b] Pierre Degond and Fabrice Deluzet. Asymptotic-preserving methods and multiscale models for plasma physics. Journal of Computational Physics, 336(??):429–457, May 1, 2017. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-
REFERENCES


REFERENCES

Dakin:2019:HOS


Pietro:2018:DSG


deDiego:2019:INS


Dobbelaere:2015:CMP


Demeester:2018:SAP

De:2018:DII


Delzanno:2015:MDF


Duncan:2016:HFS


Diot:2016:IRM


Deparis:2016:FBP

References


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[Despres:2015:AMP]


[Dumbser:2016:SRA]


[DiPietro:2017:MAS]


[Dong:2018:LTS]


[Du:2018:HWR]

REFERENCES


deLangavant:2017:LSS


delaHoz:2016:PSM


Do:2017:WBA


delLuna:2019:MCL


Du:2017:LDG

REFERENCES


Dahal:2017:NMS


Diosady:2017:TPP


Pietro:2018:WIP


Das:2015:COM


deMoraes:2017:MGC

REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[Derigs:2018:IGM] Dominik Derigs, Andrew R. Winters, Gregor J. Gassner, Stefanie Walch, and Marvin Bohm. Ideal GLM–MHD: About the entropy consistent nine-wave magnetic field divergence diminishing ideal magnetohydrodynamics equations. *Journal of
Derigs:2016:NHO


Derigs:2017:NAT


Deck:2018:RLN


Du:2015:FMG


Denner:2018:PBA

[DXvW18] Fabian Denner, Cheng-Nian Xiao, and Berend G. M. van Wachem. Pressure-based algorithm for compressible interfa-


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Einkemmer:2019:PCS


Esmaily:2018:SGM


Esedoglu:2017:KPS


Engels-Karup:2016:SNS


Engels:2015:NSF

REFERENCES


REFERENCES


REFERENCES


Einkemmer:2015:SAK


Eggl:2018:GBF


Ebersohn:2017:KST


Egerer:2016:EIM


Egger:2017:EFM


REFERENCES

[303]


Faliagas:2016:MWP

[135x681]


[135x681]

Falissard:2017:CLG

[135x681]


[135x681]

Fan:2016:SUC

[135x681]


[135x681]

Fan:2019:NFT

[135x681]


[135x681]

Fattah:2016:PGQ

[135x681]

REFERENCES


Franci:2019:RRG


Feng:2017:SNI


Flaig:2018:SMP


Fairbanks:2017:LRC


Farina:2015:RSC

Fedeli:2017:CSP


Ferrer:2017:IPS


Flyer:2016:RPR


Franceschini:2016:NLA


Fasondini:2017:MCM


### REFERENCES


REFERENCES


REFERENCES

Fu:2017:NPM
Lin Fu, Sergej Litvinov, Xiangyu Y. Hu, and Niko-
laus A. Adams. A novel partitioning method for block-
structured adaptive meshes. Journal of Computational
Physics, 341(?):447–473, July 15, 2017. CODEN JCT-
PAH. ISSN 0021-9991 (print), 1090-2716 (electronic).
URL http://www.sciencedirect.com/science/article/
pii/S0021999117309075.

Foster:2017:SPS
Erich L. Foster, Jérôme Lohéac, and Minh-Binh Tran. A struc-
ture preserving scheme for the Kolmogorov–Fokker–Planck
equation. Journal of Computational Physics, 330(?):319–339,
February 1, 2017. CODEN JCTPAH. ISSN 0021-9991 (print),
com/science/article/pii/S0021999116305940.

Fryklund:2018:PUE
Fredrik Fryklund, Erik Lehto, and Anna-Karin Tornberg. Par-
tition of unity extension of functions on complex domains.
Journal of Computational Physics, 375(?):57–79, December
15, 2018. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-
science/article/pii/S0021999118305345.

Fernandez:2015:FDT
Miguel A. Fernández, Mikel Landajuela, and Marina Vidrascu.
Fully decoupled time-marching schemes for incompressible
fluid/thin-walled structure interaction. Journal of Computa-
tional Physics, 297(?):156–181, September 15, 2015. CO-
DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-
article/pii/S0021999115003289.

Fox:2018:CHQ
Rodney O. Fox, Frédérique Laurent, and Aymeric Vié. Con-
tditional hyperbolic quadrature method of moments for kinetic
equations. Journal of Computational Physics, 365(?):269–293,
July 15, 2018. CODEN JCTPAH. ISSN 0021-9991 (print),
REFERENCES 314


[FOF15] Kathryn Farrell, J. Tinsley Oden, and Danial Faghihi. A Bayesian framework for adaptive selection, calibration, and


REFERENCES


Fu:2015:HFE


Falletta:2016:PCM


Farazmand:2017:ROP


Fu:2017:NTC


Felker:2018:FOA

REFERENCES


REFERENCES


[Gross:2018:HFC]

Gorji:2015:VRF


Gambaruto:2015:CHS


Ganesan:2015:SID


Gagarina:2016:VST


Guiraldello:2018:MRC


REFERENCES


[GBS15] Hauke Gravenkamp, Carolin Birk, and Chongmin Song. Simulation of elastic guided waves interacting with de-


**Golub:2019:BIE**


**Guddati:2016:ECT**


**Ghigo:2017:LSH**


**Ghoos:2016:ACC**


REFERENCES


Guo:2016:HRS


Gimenez:2015:EVL


Gjennestad:2017:CTD


Gordon:2015:CHO


Guillen-Gonzalez:2018:UES

REFERENCES


**Gunther:2017:FSA**


**Gao:2017:IRS**


**Guerrier:2017:MMS**


**Garrett:2015:OLS**


**Guo:2016:TDS**


**Greengard:2015:ELM**


**Gordon:2015:AFP**


**Guan:2016:ESH**


**Gamba:2015:SMK**


**Ghosh:2017:CIE**


Ghanbarzadeh:2015:LSM


GHP15

Garrick:2017:ICS


GHR17

Gibson:2018:AIL


Gib18

Gavrilyuk:2018:MDS


GIF18

Gorji:2015:FPD

M. Hossein Gorji and Patrick Jenny. Fokker–Planck DSMC algorithm for simulations of rarefied gas flows. Journal of
Gorodetsky:2018:GBO


Giuliani:2018:ASL


Gao:2019:CFE


Gruber:2015:FFT


Gelss:2017:NNI


REFERENCES


REFERENCES


REFERENCES


Glasner:2016:IAC


Garrick:2017:FVH


Gaudreault:2016:EET


Guermond:2016:FEA


Guyenne:2016:OEM

Gallinato:2017:SSO


Gardas:2018:CDQ


Gargallo-Peiro:2018:MGS


Guittet:2017:VIA


G:2018:CRS


Grigoriu:2019:FDM


Gonzalez-Rodriguez:2015:LEI


Groot:2018:SOF


Goshayeshi:2015:DSH


Gaudreault:2018:KFA


Gao:2015:TPC

Guang-Hua Gao and Hai-Wei Sun. Three-point combined compact difference schemes for time-fractional advection-

**Gao:2015:EFL**


**Gejadze:2015:GVO**


**Ghosh:2016:HOF**


**Giovanis:2018:UQC**

REFERENCES


REFERENCES


Gan:2015:CET

Gillis:2017:EIP

Gillis:2018:FII

Guha:2015:VBA
Gassner:2016:SFN


Gong:2017:CFP


Gu:2018:IPL


Guo:2015:EUE


Guo:2017:SIS


REFERENCES

Hanasoge:2016:SSC


Hadjidoukas:2015:HPC


Harris:2018:UCK


Huang:2015:CFS


Huang:2015:MPG

REFERENCES


Huang:2018:SSI


HosseiniMehr:2018:ADM


Hu:2015:IGT


Hampton:2015:CSP


Hampton:2018:BAS

References


REFERENCES


REFERENCES


REFERENCES


Huang:2016:SOC


Higdon:2015:MTS


Higginson:2017:FAM


Hatori:2016:LLA


Hivert:2018:FOA


REFERENCES


REFERENCES


Hedges:2017:SLS


Harmandaris:2016:PSV


Hejlesen:2015:IBP


Hao:2018:CMM


Huber:2016:PBM


He:2016:MRF


Huang:2018:IEC


Horstmann:2017:HSC


Hu:2016:AMS

REFERENCES


Honorio:2018:SEB


Huthmacher:2016:SSM


Hong:2017:HOP


Hong:2017:SHO


Hong:2018:HOP

Youngjoon Hong and David P. Nicholls. A high-order perturbation of surfaces method for vector electromagnetic scattering by doubly layered periodic crossed gratings. *Journal of Computational Physics*, 372(?):748–772, November 1,
REFERENCES

Hosseini:2016:RDD

Harker:2015:SEN

Hejranfar:2017:PCB

Helmich-Paris:2016:IMA

Ha:2018:GAS
Heumann:2017:FEM

Hackemack:2018:QSD

Hansel:2018:FCT

Halpern:2016:GCT

Hardin:2017:FFE
Thomas J. Hardin and Christopher A. Schuh. Fast finite element calculation of effective conductivity of random contin-


Hosseini:2016:LRP


Huismann:2017:FFS


He:2015:CMC


He:2015:VPA


He:2016:HOV

Yang He, Yajuan Sun, Jian Liu, and Hong Qin. Higher order volume-preserving schemes for charged particle dynamics. *Journal of Computational Physics*, 305(??):172–184, January 15, 2016. CODEN JCTPAH. ISSN 0021-9991 (print),
REFERENCES


Babak S. Hosseini, Stefan Turek, Matthias Möller, and Christian Palmes. Isogeometric analysis of the Navier–Stokes–Cahn–Hilliard equations with application to in-


[HW15a] Daozhi Han and Xiaoming Wang. A second order in time, uniquely solvable, unconditionally stable numerical scheme


Haghshenas:2019:FVG


He:2016:NSM


Huang:2015:ARB


Hao:2015:FDM


Hu:2018:MCA


REFERENCES


Ireland:2017:IPD


Idomura:2016:NHK


Ivan:2015:HOC


Imbert-Gerard:2015:WPG


Isola:2015:FVS


Ivey:2015:AIN


Irfan:2017:FTM


Ivey:2017:CBV


Imbert:2015:FDM


Ishii:2017:VRT

Isaac:2015:SEA

Tobin Isaac, Noemi Petra, Georg Stadler, and Omar Ghattas.

Ismagilov:2015:SOF


Itu:2015:PEF


Ii:2018:CSA


Iwasaki:2015:MDE

REFERENCES


Jofre:2015:PLB


Jedouaa:2019:EIC


Joshi:2017:HOM


Jiang:2019:IDA


Josey:2016:WMC


REFERENCES


**Joshi:2017:PPV**


**Joshi:2018:AVP**


**Joshi:2018:PPC**


**Jarecka:2015:SDS**


**Jeffers:2017:GBH**
Jiang:2015:MEL


Jiang:2016:AAN


Jang:2017:IBM


Jiang:2017:MSR


Jin:2017:APS

Jambunathan:2018:COB


Jiang:2018:MRM


Jiang:2018:IRP


Jiang:2015:FPL


Jin:2018:OLD


Jiang:2018:DBC


Joshi:2016:DAP


Jamshidian:2016:MCF


Jakeman:2015:EAS


Jia:2015:FFD

Jinhong Jia and Hong Wang. Fast finite difference methods for space-fractional diffusion equations with fractional

**Jia:2015:PFF**


**Jia:2016:FFV**


**Jiao:2016:WCF**


**Jiang:2015:MMS**


**Jiang:2017:DDM**


Kursawe:2017:IIC


Kou:2015:FRA


Kampmann:2015:PEC


Kim:2015:QSU


Koulouri:2017:VTR

Alexandra Koulouri, Mike Brookes, and Ville Rimpiläinen. Vector tomography for reconstructing electric fields with non-zero divergence in bounded domains. *Journal of Computational Physics*, 329(??):73–90, January 15, 2017. COD-


[KCS+17] E. M. J. Komen, L. H. Camilo, A. Shams, B. J. Geurts, and B. Koren. A quantification method for numerical dissipation in quasi-DNS and under-resolved DNS, and effects of numerical dissipation in quasi-DNS and under-resolved...


REFERENCES


[KJ17b] Stephan Küchlin and Patrick Jenny. Parallel Fokker–Planck–DSMC algorithm for rarefied gas flow simulation in com-

**Kuchlin:2018:AMR**  

**Kim:2017:FDM**  

**Kozynchenko:2016:IAE**  

**Kim:2017:AMC**  

**Kotalczyk:2017:MCM**  
G. Kotalczyk and F. E. Kruis. A Monte Carlo method for the simulation of coagulation and nucleation based on weighted
particles and the concepts of stochastic resolution and merging.


Kalliadasis:2015:NFE


Kawashima:2015:HES


Kawashima:2016:FSM


Kang:2015:POL


Kophazi:2015:SAD

REFERENCES

Keady:2016:SMC


Karagiannis:2017:BCC


Kim:2017:MFD


Korn:2018:CDS


Krasnopolsky:2018:CFI


Kostin:2015:LTS


Kempe:2015:IFS


Kwan:2017:FHS


Kwon:2015:NSM


Kammerer:2016:KMT

REFERENCES

Keshavarzzadeh:2016:IDN


Kanjilal:2017:GTB


Kaiser:2018:SEC


Kastner:2016:IAC


Kindelan:2016:RBF

REFERENCES


REFERENCES

Koutsourelakis:2016:VBS


Kim:2015:LBM


Knaus:2015:CAF


Kornet:2015:MSD


Kim:2018:ANT

REFERENCES

Kavvadias:2015:PTG


Kabacaoglu:2018:LRS


King:2017:SVP


Katsoulakis:2017:SII


Kompenhans:2016:ASH

REFERENCES


REFERENCES


Pierric Kersaudy, Bruno Sudret, Nadège Varsier, Odile Picon, and Joe Wiart. A new surrogate modeling technique combining kriging and polynomial chaos expansions — application to uncertainty analysis in computational dosimetry. *Journal of Computational Physics, 286*:103–117, April 1,
Kramer:2018:FCD


Kraus:2016:VIR


Kaboudian:2015:GSM


Kuya:2018:KEE


Kawai:2015:RAN

Soshi Kawai, Hiroshi Terashima, and Hideyo Negishi. A robust and accurate numerical method for transcritical turbulent flows at supercritical pressure with an arbitrary equation of state. *Journal of Computational Physics*, 300(??):116–135,


Kossi-Mensah Kodjo, Julien Yvonnet, Mustapha Karkri, and Karam Sab. Multiscale modeling of the thermomechanical behavior in heterogeneous media embedding
REFERENCES


Katsoulakis:2017:SIP


Koutsourelakis:2016:SIB


King:2015:BCS


Lowengrub:2016:NSE


Liu:2018:WBP

REFERENCES


REFERENCES


[LC16] Sebastian Liska and Tim Colonius. A fast lattice Green’s function method for solving viscous incompressible flows on

[Liang:2017:NMD]


[Liska:2017:FIB]


[Lee:2018:SAK]


[Llor:2016:EPE]


REFERENCES


REFERENCES


Lieu:2016:CHO


Lemoine:2017:MFA


Liu:2017:FSI


Li:2018:FLC


Lai:2017:RIF


Litvinov:2015:TCC


Luo:2015:CSI


Luo:2016:CBC


Luo:2016:EFS


Li:2016:SPF


REFERENCES


REFERENCES


Li:2017:HOS


Liao:2016:ESA


Liu:2016:SOC


Liu:2019:SAP


Liu:2018:SAH

REFERENCES


REFERENCES

[Latypov:2017:DDR]

[Lai:2015:FRS]

[Lee:2017:GCF]

[Lee:2017:REC]

[Linders:2017:SPO]
Viktor Linders, Marco Kupiainen, and Jan Nordström. Summation-by-Parts operators with minimal dispersion er-


Bris:2017:ECA


Lester:2018:FPG


Law:2019:NRF


Laguna:2016:FIF

Lee:2017:APM


Li:2018:UGK


Li:2018:CRM


Li:2016:IRB


Lou:2018:RDG

Lin:2016:FAA


Legrand:2017:MGF


Lin:2017:MML


Lee:2016:HOC


Li:2015:DAD

REFERENCES


REFERENCES


Lo:2019:HSM


Liu:2018:LDG


Liang:2015:NSD


Li:2016:SOT


Luquet:2019:LRN


REFERENCES


Laurent:2017:RSO


Lovett:2015:AMR


Litsarev:2016:LRA


Lohmann:2017:FCTb


Lotfi:2018:CER


REFERENCES

Lee:2018:MMS


Lenarda:2017:PCA


Lockerby:2015:ACH


Lee:2018:DCP


Lepilliez:2016:TPF

REFERENCES


Lu:2016:BEF


Lee:2017:DNS


Luo:2018:MMM


Lu:2017:CAS


Ladiges:2015:FDM


Lin:2017:SCT


Liang:2018:DDC


Lv:2016:ERS


Lee:2015:FSO


Landry:2016:RMM


[LSTkM15] Yun Liu, Weidong Shen, Baolin Tian, and De kang Mao. A two dimensional nodal Riemann solver based on one dimensional Riemann solver for a cell-centered Lagrangian scheme.
REFERENCES


REFERENCES


REFERENCES


Liu:2017:HOT


Luchko:2015:WDD


Lavalle:2015:NRM


Lu:2018:IAP


Lalanne:2015:CVT


[Li:2015:NSI]


[Li:2015:GLE]


[Lee:2017:AEG]


[Li:2017:TEH]


[Li:2017:HON]
Liu:2017:AHO


Liu:2017:FES


Lee:2018:EGM


Luo:2017:EFE


Lin:2017:HOF


Lee:2018:PPG


Li:2017:DDA


Lu:2017:AOS


Liu:2015:SAD

REFERENCES


Mahady:2015:VFM


Massimo:2016:CTE


Martins:2017:CCL


Masiello:2018:FSC


Mattsson:2017:DNU

REFERENCES


REFERENCES

Magri:2016:SATa


Moxley:2015:GFS


Maunoury:2018:WSA


Magri:2016:SATb


MacDonald:2015:ECG

Christopher L. MacDonald, Nirupama Bhattacharya, Brian P. Sprouse, and Gabriel A. Silva. Efficient computation of

**Mittal:2017:PVD**


**Medale:2015:HPC**


**Martin:2016:OPM**


**Murashige:2017:NSP**


Motheau:2018:HAL


Michel-Dansac:2017:WBS


Moghaderi:2017:SAM


McCorquodale:2015:HOF


Marrone:2016:CSP

REFERENCES

Mengaldo:2015:DTH


Mengaldo:2018:SEA


Moguen:2015:GTS


Monsorno:2018:TAC


Moon:2016:SEG

H. Moon, B. Donderici, and F. L. Teixeira. Stable evaluation of Green’s functions in cylindrically stratified re-


REFERENCES

Martin:2017:SMR


Mora:2018:NSS


Muller:2015:SDP


Mainardi:2015:CMP

Marras:2015:PFD


Marie:2017:AFL


Mistani:2018:IDM


Mirzadeh:2016:PLS


Mu:2018:ELE


Mohamed:2016:DEC


Meyers:2015:NDE


Marti:2016:FSM


Miquel:2017:HCF


Markl:2015:FSN


REFERENCES


Moyner:2016:MRS


Muller:2016:CTV


Morgan:2018:RSM


Ma:2017:ESH


Morente:2018:PMS

References


REFERENCES


Mitchell:2016:HLI


Muralidharan:2016:HOA


Mundis:2017:TOS


Muralidharan:2018:SMB

REFERENCES


REFERENCES

Moura:2017:ERC


Menon:2015:PAS


Merrick:2018:NFV


Muller:2015:RSE


Mattsson:2004:SPO

Ken Mattsson and Jan Nordström. Summation by parts operators for finite difference approximations of second derivatives.
REFERENCES


Mazaheri:2015:ISO


Mazaheri:2016:EHO


Michael:2016:HFN


Mudunuru:2016:EMP

REFERENCES

Mattsson:2017:CSP


Magee:2018:ASO


Michael:2018:MPM


Musharbash:2018:DDO


Malgarinos:2015:CLA

[MNG15a] Ilias Malgarinos, Nikolaos Nikolopoulos, and Manolis Gavaises. Coupling a local adaptive grid refinement technique with an interface sharpening scheme for the simulation of two-phase flow and free-surface flows using VOF methodology. Journal of Computational Physics, 300(?):732–753, November 1,
REFERENCES


REFERENCES


Miki:2015:SVN


Mazhar:2018:DVA


Marchetti:2016:HEH


Mashayekhi:2016:NSD


Murali:2016:NMB

Mehlmann:2017:FEM


Machac:2016:EDS


Mirkov:2015:IFV


Maginot:2016:HOS


Mazaheri:2016:FOH

Alireza Mazaheri, Mario Ricchiuto, and Hiroaki Nishikawa. A first-order hyperbolic system approach for dispersion. *Journal of Computational Physics*, 321(??):593–605, September 15, 2016. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-
REFERENCES


 Sylvain Maire and Martin Simon. A partially reflecting random walk on spheres algorithm for electrical impedance tomogra-

[Mandal:2015:GMC]


[MS15b]


[Mattsson:2015:HFN]


[Mao:2016:ESG]


[Margheri:2016:HAA]

William H. Mitchell and Saverio E. Spagnolie. A generalized traction integral equation for Stokes flow, with applications to near-wall particle mobility and viscous erosion. *Jour-
REFERENCES


REFERENCES


[Moon:2015:CPC] Haksu Moon, Fernando L. Teixeira, and Burkay Donderici. Computation of potentials from current electrodes in cylindrically stratified media: a stable, rescaled semi-analytical for-


**Montgomery:2017:UMZ**


**Medvinsky:2019:DIH**


**Masson:2016:CCL**


**Mueller:2018:NTW**


REFERENCES


REFERENCES


Nordstrom:2018:CT


Niyonzima:2016:WRC


Nold:2017:PMD


Ngo:2017:SMM


Nichols:2018:SDT


REFERENCES


REFERENCES


REFERENCES

Navas-Montilla:2015:EBN


Navas-Montilla:2016:AEE


Navas-Montilla:2017:ONS


Navas-Montilla:2018:WBA


Navas-Montilla:2019:IRS

REFERENCES


REFERENCES


[Nikkar:2019:DCS]

[Nishikawa:2017:EHF]

[Noetinger:2015:QSS]

[Na:2017:ACC]
REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES

Ojala:2015:AIE


Ohno:2017:NTQ


Ozbenli:2017:HOA


Oud:2016:FCM


Oguic:2015:PMC


REFERENCES


Patkar:2016:TPP


Panagiotou:2015:LNS


Park:2015:MFS


Park:2017:PAM


Parent:2018:PPD


Grégoire Pont, Pierre Brenner, Paola Cinnella, Bruno Maugars, and Jean-Christophe Robinet. Multiple-correction hybrid k-exact schemes for high-order compressible RANS–LES...


[PD16a] Parish:2016:PDD

[PD16b] Pourmatin:2016:MRS


[PDdG+17] Pan:2017:POU
REFERENCES


Phillips:2017:ETE


Pazzona:2015:IAM


Phillips:2015:SAU


Panourgias:2016:NFH


Petrov:2016:TBC

REFERENCES


REFERENCES


Pasquariello:2016:CCF


Pavan:2016:SOR


Hao:2015:FOA


Pinaud:2015:ALD


Pishchalnikov:2018:ADE

[Pis18] Roman Pishchalnikov. Application of the differential evolution for simulation of the linear optical response of photosynthetic

**Pozzetti:2019:PDG**


**Park:2016:ESV**


**Pandya:2016:ICB**


**Park:2016:HMD**


REFERENCES

Piao:2018:OSS


Pan:2016:DMP


Pan:2017:FDM


Park:2017:MAL


Pakravan:2017:GNF


**Petkova:2018:FAV**


**Pan:2018:EMP**


**Pan:2018:HOT**


**Pal:2015:SBC**

References

Peng:2015:BIE


Petras:2018:RFC


Peng:2016:IGK


Park:2016:NAI


Piatkowski:2018:SHO


Bernard Parent, Sergey O. Macheret, and Mikhail N. Shneider. Modeling weakly-ionized plasmas in magnetic field: a


REFERENCES


Ashish Pathak and Mehdi Raessi. A 3D, fully Eulerian, VOF-based solver to study the interaction between two fluids and moving rigid bodies using the fictitious domain method.
Pathak:2016:TDV


Petras:2016:PMS


Pasquetti:2017:CVF


Popovic:2017:AFI


Prusa:2018:CCS

Pfeifenberger:2018:NSS


Pelanti:2014:MEC


Pelanti:2015:CME


Petersson:2015:WPA


Pathak:2016:AFV


REFERENCES


REFERENCES


Parussini:2017:MFG


Parmentier:2018:VPM


Pimenta:2018:FNF


Popov:2015:SVC


Pan:2015:GCT


REFERENCES


REFERENCES


REFERENCES


Maryam Rahbaralam, Daniel Fernàndez-Garcia, and Xavier Sanchez-Vila. Do we really need a large number of particles to simulate bimolecular reactive transport with random walk methods? A kernel density estimation approach. *Journal of Computational Physics*, 303(??):95–104, December 15,
REFERENCES


Radivojevic:2018:MSS


Rangarajan:2015:FEM


Rietmann:2017:NLT


Remacle:2016:GAS


Ray:2018:ANN

Deep Ray and Jan S. Hesthaven. An artificial neural network as a troubled-cell indicator. *Journal of Computa-


Maziar Raissi and George Em Karniadakis. Hidden physics models: Machine learning of nonlinear partial differential equa-
REFERENCES


[Reckinger:2016:CNM] Scott J. Reckinger, Daniel Livescu, and Oleg V. Vasilyev. Comprehensive numerical methodology for direct numerical sim-

**Rizzuti:2016:MBS**


**Rahmouni:2017:TVI**


**Roberts:2018:VCD**


**Romano:2015:DMC**

REFERENCES


REFERENCES


REFERENCES


REFERENCES


576

REFERENCES


Rapaka:2016:IBM


Reeve:2017:ECM


Rapaka:2018:NNS


Rycroft:2015:EPM


Rodrigues:2016:CME

Romer:2017:DCF


Rona:2017:OPC


Roohi:2018:GFB


Rainwater:2016:NAC


Rieke:2015:CVT

REFERENCES


[RV16] Sebastian Reuther and Axel Voigt. Incompressible two-phase flows with an inextensible Newtonian fluid interface. Journal of Computational Physics, 322(?):850–858, October 1,


Xiaodong Ren, Kun Xu, Wei Shyy, and Chunwei Gu. A multi-dimensional high-order discontinuous Galerkin method based on gas kinetic theory for viscous flow computations. *Journal of Computational Physics*, 292(??):176–193, July 1,


Ivana Seric, Shahriar Afkhami, and Lou Kondic. Direct numerical simulation of variable surface tension flows


REFERENCES


REFERENCES


REFERENCES


REFERENCES


Strobl:2016:ECO


Shashkin:2016:CCS


Soize:2016:DDP


Soize:2017:PCR


Scarnati:2018:JIF


REFERENCES


REFERENCES


REFERENCES


[Stotsky:2016:VVD]

[Shu:2016:HOW]

[Spietz:2017:IBP]

[SHW18]
Sidilkover:2018:TUV


Sugiura:2016:EGS


Sugiura:2017:EGS


Siryk:2019:NAG


Sun:2016:BVD


Stupfel:2016:OWD


Su:2016:EDP


Schroeder:2017:SDF


Semplice:2018:AMR


Slattery:2016:MFD

Shinde:2016:GFM


Shao:2018:CFI


Spandan:2018:FML


Schneider:2018:EBS


Shin:2016:FSO


Shin:2017:USM

Sorgentone:2015:NHO

Sheikh:2016:ASL

Simpson:2018:IBE

Sifounakis:2016:CFV
REFERENCES


Spellings:2017:GAD


Sabzikar:2015:TFC


Sharan:2018:MSB


Slevinsky:2018:SMN


Smith:2018:NND

Soghrati:2015:BCM


Spandan:2017:PIP


Sheldon:2016:HDG


Serson:2016:VCS


Song:2018:SBM

T. Song, A. Main, G. Scovazzi, and M. Ricchiuto. The shifted boundary method for hyperbolic systems: Embedded domain computations of linear waves and shallow water flows. *Journal of Computational Physics*, 369(??):45–79, September 15,


Samaros:2015:URL


Shankar:2018:RLA


REFERENCES


REFERENCES


REFERENCES


Srinivasan:2018:PPH


Serkh:2016:SEP


Subramaniam:2018:PIV


Shams:2018:NMT


Samake:2017:PIL

REFERENCES

Soligo:2019:CSL

Santilli:2015:SOM

Shao:2015:CDS

Saye:2016:MME

Sengupta:2016:NAB


REFERENCES


Stefanescu:2015:PDR


Sondak:2015:NCF


Sun:2015:EFG


Schmitt:2018:STD

REFERENCES


REFERENCES


[Seol:2019:IBM] Yunchang Seol, Yu-Hau Tseng, Yongsam Kim, and Ming-Chih Lai. An immersed boundary method for simulating...


REFERENCES


Subich:2015:RMM


Subich:2018:HOF


Sekulic:2018:VAS


Suzuki:2018:BFE


Subramaniam:2017:TP1

Svard:2015:WSC


Sekaran:2018:ANC


Shi:2015:ABE


Shen:2016:CST


Schmidtmann:2017:HES


Schunert:2017:FND


Sonnendrucker:2015:SCV


Souopgui:2016:STA


Smith:2018:NIS


Su:2019:AEC

REFERENCES


Shen:2017:MPS


Sheng:2016:SMP


Schlanderer:2017:BDI


Schoepplein:2018:AEA


Shin:2018:SFA

REFERENCES


[SX16] Yeonjong Shin and Dongbin Xiu. On a near optimal sampling strategy for least squares polynomial regression. *Jour-
REFERENCES


Mostafa Faghih Shojaei and Arash Yavari. Compatible-strain mixed finite element methods for incompressible nonlinear elast-


Sjogreen:2017:CHO


Sjogreen:2017:CHO

Shen:2015:EES


Semenikhin:2015:AIA


Song:2015:SPP

REFERENCES


Tao:2016:EHO


Trujillo:2017:DLS


Tavakoli:2015:CEA


Tavakoli:2016:UES


Tripathy:2018:DUL

REFERENCES


[Tveit:2015:ISS] Svenn Tveit, Shaaban A. Bakr, Martha Lien, and Trond Mannseth. Identification of subsurface structures using elec-

**Tome:2016:FDT**


**Taitano:2015:CECa**


**Thuburn:2015:PDM**


**Towne:2015:OWS**


REFERENCES


REFERENCES

Terashima:2012:ASG


Tauriello:2015:CSP


Terashima:2015:CAS


Turinsky:2016:MSC


Tang:2015:MUI

REFERENCES


REFERENCES


[TMH16] Nathaniel Trask, Martin Maxey, and Xiaozhe Hu. Compact moving least squares: an optimization framework for gen-


Torrilhon:2017:HBS


Thiagarajan:2018:SAQ


Tsalamengas:2015:QRW


Tsalamengas:2016:GJQ


Trahan:2018:FAA

REFERENCES


REFERENCES


S. A. Tokareva and E. F. Toro. A flux splitting method for the Baer–Nunziato equations of compressible two-phase

Taverniers:2017:IPU


Taverniers:2017:TCD


Togo:2016:SCT


Todarello:2016:FVG

REFERENCES


Tian:2016:ALD


Tang:2017:HAD


Tao:2016:SSD


Tang:2016:NEM


Tao:2018:CIB


REFERENCES


REFERENCES


REFERENCES


vanderLinden:2016:PSL

Vidovic:2015:PLT

Veerapaneni:2016:IEM

vanEs:2016:FVS

Vico:2016:FCF


REFERENCES

Violeau:2015:OTS


VanLangenhove:2018:GOE


Voronin:2018:STD


Vergara:2016:CNM


Vidal:2016:PDS

vanLith:2017:EWD


Valizadeh:2015:SSW


Velasco:2019:LBM


Beeumen:2018:CRM


Vermeire:2015:AIS

REFERENCES

Vides:2015:STD


Vogl:2017:CAC


vanOers:2017:HDG


Voskov:2017:OBL


Vanharen:2015:TNA


REFERENCES

Vermeire:2016:PES


Vachal:2016:PSS


Vachal:2018:VCE


Vermeire:2017:UGA


Vecharynski:2015:PPC

REFERENCES


Weller:2016:MAS


Weitz:2016:MCE


Whalen:2015:ETD


Wirasaet:2015:ABL


Wen:2018:RMP

Baole Wen and Gregory P. Chini. Reduced modeling of porous media convection in a minimal flow unit at large Rayleigh number. *Journal of Computational Physics*, 371(??):551–563, October 15, 2018. CODEN JCTPAH. ISSN 0021-9991 (print),
REFERENCES

Wolf:2016:PCM

Wang:2017:IBM

Wilkening:2015:ASN

Wang:2015:SII

Wise:2018:BBM


Wang:2015:SCD


Webb:2014:SIM


Wendt:2015:PCS


Wright:2017:SCF


Winters:2015:CTE

REFERENCES


REFERENCES


REFERENCES


REFERENCES


REFERENCES


[WMY16] Jinghua Wang, Q. W. Ma, and S. Yan. A hybrid model for simulating rogue waves in random seas on a large temporal and

[Wang:2018:FNN]

[Wasserman:2016:PPI]

[Watanabe:2017:GER]

[Wahlsten:2018:RBC]

[Watvisave:2015:HMD]


Qian Wang, Yu-Xin Ren, and Wanai Li. Compact high order finite volume method on unstructured grids II: Extension to two-dimensional Euler equations. *Journal of Computational Physics*, 314(??):883–908, June 1, 2016. CO-
REFERENCES


REFERENCES


REFERENCES

Watanabe:2015:LPM


Wang:2018:DSG


Wei:2016:EHO


Wang:2017:FRS

REFERENCES


REFERENCES


[WW18] Bin Wang and Xinyuan Wu. Functionally-fitted energy-preserving integrators for Poisson systems. *Journal of Com-

Wintermeyer:2017:ESN


Wintermeyer:2018:ESD


Waluga:2016:MCC


Weinmuller:2017:PAS


REFERENCES


Wu:2017:FP1


Wang:2018:MPM


Wu:2018:PAL


Wu:2017:FIS


Wu:2015:FSS

Wu:2015:FSM


Xiang:2018:MBF


Xiao:2017:WBU


Xie:2017:HPD


Xiao:2017:FCP

Xu:2015:PMT


Xia:2015:FDS


Xie:2015:AMR


Xie:2016:NMP


Xi:2018:MTE


Xu:2017:MEL


Xu:2015:SDS


Xing:2015:CPE


Xuan:2019:CSS


Xu:2018:LSM

REFERENCES


Qing Xie, Zhixiang Xiao, and Zhuyin Ren. A spectral radius scaling semi-implicit iterative time stepping method


Yano:2017:FAC


Yasuda:2017:MCS


Yousefzadeh:2017:PBH


Yan:2015:MCM


Younsi:2016:AFC


Yamaleev:2017:FFO

Nail K. Yamaleev and Mark H. Carpenter. A family of fourth-order entropy stable nonoscillatory spectral coloca-


Yang:2017:BVB


Yang:2018:FSC


Yang:2017:LFS


Yang:2017:TMM


Yang:2015:MMF

Xiaobo Yang, Weizhang Huang, and Jianxian Qiu. A moving mesh finite difference method for equilibrium r-


REFERENCES

[You:2018:HOM]

[Yao:2016:NMA]

[Yuan:2017:RIM]

[Ye:2015:CDS]

[YLBL16]


REFERENCES


Yao:2015:NIT


Yang:2015:NID


Yang:2017:HSM


Yan:2018:FIP


Yan:2018:UIS


REFERENCES


Yu:2016:ELB


Yang:2016:MFS


Ye:2016:GCC


Yang:2016:SNE

Yu:2017:NAP


Yan:2016:OSG


Yang:2018:DSR


Yang:2017:FEM


Yaji:2016:TOT


REFERENCES

*Zerroukat:2015:MCT*


*Zadeh:2011:MCS*


*Zabelok:2015:AKF*


*Zauner:2016:AFF*


*Zhang:2015:NSP*

Zago:2018:SIS


Zheng:2018:FVA


Zhao:2017:GFE


Zhang:2015:VIR


Zhang:2018:AMS

[ZC18] Zhengfang Zhang and Weifeng Chen. An approach for maximizing the smallest eigenfrequency of structure vibration based


[ZD17] Duan Z. Zhang and Tilak R. Dhakal. Shock waves simulated using the dual domain material point method com-
references


Yuxian Zhang, Naixing Feng, Henry Hongxing Zheng, and Qing Huo Liu. A corner-free truncation strategy for


Zhen:2015:AEC


Zha16


ZHA17a


ZHA17b


Zha17c

REFERENCES

Zhang:2018:MMF


Zhang:2018:NSPa


Zhu:2018:LSM


Zhao:2018:IFP


Zillich:2015:CPD

Zhang:2015:IFE


Zhang:2018:ABF


Zhao:2016:PIM


Zhang:2015:RTS


Zhang:2015:CSI

REFERENCES

Zayernouri:2015:FSC


Zivcakova:2018:DGM


Zhang:2015:FSM


Zhang:2015:ITD


Zhang:2015:SEH

Zhou:2015:NTD


Zhao:2018:ALC


Zhang:2018:TOG


Zhou:2018:DMR


Zhang:2017:ALB

REFERENCES


REFERENCES


REFERENCES

Zandi:2015:SAA

Zwanenburg:2016:EBE

Zhang:2018:DNS

Zepeda-Nunez:2016:MPT

Zhou:2015:WDL
REFERENCES


Zohdi:2017:CME


Zahr:2016:AMH


Zimon:2016:ENR


Zhao:2018:WEN


Zheng:2016:DSH

Feng Zheng and Jianxian Qiu. Directly solving the Hamilton–Jacobi equations by Hermite WENO schemes. Journal of
Zhu:2016:NFO

Zhu:2017:NTO

Zhou:2015:LBS

Ziegelwanger:2017:PMM

Zimon:2016:NCN


REFERENCES


**Zhang:2019:CAR**


**Zhao:2019:GFE**


**Zhang:2015:FNS**


**Zheng:2017:FDH**


**Zhang:2017:VCP**

Xiaoping Zhang, Shuai Su, and Jiming Wu. A vertex-centered and positivity-preserving scheme for anisotropic diffusion problems on arbitrary polygonal grids. *Journal of Computa-
REFERENCES


REFERENCES


**Zhang:2015:SNC**


**Zhang:2016:PFM**


**Zhu:2018:SDI**


**Zhu:2017:PEG**


**Zimmerling:2016:LMO**

Zhou:2018:SON

Zou:2017:SFT

Zhou:2017:SFF

Zhao:2017:SNS

Zhang:2019:HOI


[ZZ17a] Bo Zhang and Haiwen Zhang. Recovering scattering obstacles by multi-frequency phaseless far-field data. *Jour-
REFERENCES


REFERENCES


