A Complete Bibliography of Publications in *SIAM Journal on Mathematical Analysis* for 2000–2009

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$(N + 1)$ [BCV06]. 1 [Bos03, FH01, LY05]. $1/|x|$ [RW00b]. $1 \leq p < \infty$ [BFP08]. 2 [CG00, HL02a, HL02b, Kim09, Kim13]. 2×2 [CHS08, HL02a, HL02b]. 3 [CL04, CF01, Mas01, MPP09, ST01]. ^{1} [WW02]. ^{2} [BCN02]. ${}_3F_2$ [BPR00b]. BV [DP09]. C^1 [KK04a]. C^∞ [HS08]. d [LL00]. D^2 [AHM09]. δ [CL03]. $div\left(\frac{Du|}{D}u|\right) = u$ [BCN05]. Γ [ABV06, BN08, Hor08, CMS04, GM05, Ped04]. $H^s(\partial\Omega)$ [Auc06]. H_2^1 [Mik09]. ∞ [CDJ08]. k [KS03b]. $\kappa \to +\infty$ [BCM00]. L [BCN02]. L^1 [Ha01, HY03]. L^2 [HZ09, HK06, VZ07]. L^∞ [AG02, Bia01, BN08]. L^p [CCD02, IK01]. L_p [BP07]. $L_q((0,T),L_p)$ [Kry01]. $\mathbf{R}^n$ [DKS02]. N [Alì03, BCV06, KT01]. P [CQW03, DP09, AMRT09, BFP08, CR03, CG08, IL05, Lie05, LL03]. q [AL06]. R [WW02]. R^2 [BCN05]. R^3 [BV08, Han01]. R^n [NW04]. S^2 [AHM09]. T [MP08, Kri04]. $u_{xxxx} + u_{yyyy} = f$ [KS06a]. ε [Sug09]. Z [CT09].

-Body [CL04, BCV06]. **-Convergence** [CMS04, Ped04, ABV06, BN08, Hor08]. **-Critical** [HK06, VZ07]. **-Dimensional** [HL02a, HL02b, Alì03, BCV06]. **-Harmonic** [BFP08]. **-Junctions** [MP08]. **-Laplace** [IL05]. **-Laplacian** [AMRT09, CQW03]. **-Limit** [GM05]. **-Manifolds** [CG00]. **-Monotone** [KS03b]. **-Racah** [AL06]. **-Regularity** [Sug09]. **-Shocks** [CL03]. **-Solutions** [Mik09]. **-Spaces** [Kry01].

-System [CG08, DP09]. **-Theory** [BP07]. **-Wasserstein** [CDJ08]. **-Wave** [LL00, LL03]. **-Waves** [KT01].

1D [Bos05].

2D [Wu05].

34 [Pla09b].

Absence [ET09]. **Absolutely** [FLT09]. **Absorption** [CQW03]. **Accelerated** [GK05]. **Acceleration** [MO09, SS09a]. **Acoustic** [HH01, HLTT08, Mei08]. **Acoustical** [BV08]. **Acoustics** [KP08]. **Across** [O'D08]. **Activity** [PSF05]. **Adams** [DE06]. **Adaptive** [KS09c]. **Additive** [DS05]. **Adhesion** [NT08]. **Adiabatic** [AMP05, MP01, NN01]. **Adjoint** [EL02]. **Adjoints** [FHW02]. **Admissibility** [Hat00]. **Admissible** [FN05]. **Affine** [Joh03]. **after** [FMP05]. **Age** [Wal09a]. **Age-** [Wal09a]. **Agents** [BFG04]. **Aid** [PS00]. **Algebraic** [BW08]. **Algebras** [FS09]. **Algorithm** [CN06, Ish05]. **Algorithms** [Han08]. **Allen** [Tan07]. **Allocation** [DZ08]. **Alloys** [MPP09, Ste05, Vis09]. **Almost** [DGG00, HS02]. **Along** [AH07]. **Alternate** [BGSZ01]. **American** [BX09, CC07]. **Ampère** [JW07]. **Amplitude** [AIM03, HK00b, LLYZ03, MZ05b, Sun01, YZ09]. **Anal** [HKS07, Pla09b]. **Analysis** [ABV06, BK05, BX09, BDV03, BV00a, BNG04, BMR09, CCG05, CFTV03, CJ04, CC07, CCCS06, CE07, DGG08, DLY07, FFH02, Fou06, FMS03, GIK05, KO00, KS09c, Mac04, MB08, Pel01, PRS08, San05, Ste05, Wan08, Zui00, BC06a]. **Analyticity** [HN05]. **Angiogenesis** [FFH02]. **Angle** [II01]. **Angular** [Cla00]. **Anharmonic** [Joc00]. **Anisotropic** [AMSW05, BK04, CN06, FMP09, KN00, KS06a, KP07, Kyr04, MP03, HL02b]. **Anisotropy** [AG01a]. **Annealing** [CHK08]. **Annulus** [Lou06]. **Any** [Lie05]. **Application** [Bra05, Bri03, BST05, BLM09, BFK03, CCM07, CR06, CF03, Dal07, DLY07, HM09b, KK08b, LW09, ZD00]. **Applications** [ACFS09, BL03, BL01, BN08, Car03, COV02, FLT09, HH01, IV04, KK08a, MVNO08, NW03, NS04, SS09b, Tra06]. **Approach** [Bos00, BV02, DS06, HM09a, JN04, KY04, Len08, MO09, NS09, Ryb01]. **Approximate** [FC06, Lay07]. **Approximation** [AMP05, AFM01, ABDG04, AG01b, BN02, BBP05, BGL07, CGZ09, COV02, DP03, FS01, GP04, HS08, II01, IM04, Kei01, KS03b, MPP09, Rou03, TTX03, Wil09, Wri05, Yoo01]. **Approximations** [BPR00b, BFP08, BC06b, CP00, CL09, KN09, TT00]. **Arbitrary** [GW07, Lie05]. **Arc** [BPR00a, BPR00b]. **Area** [BS05, Yua06]. **Argument** [LWS05]. **Arise** [DZ08]. **Arising** [BV00a, Bla06, CCG05, CF00, DLS05, El 07, KKSY02, LS00, NK08, Osh04, YYW08, Yoc07]. **Ascending** [SW08]. **Aspects** [FG09]. **Associated** [CR03, CHK08, Ped06]. **Assumption** [CLR02, Pla09b]. **Asymptotic** [ABDG04, AK03, BF06, Bou08, BLM09, CGL04, CLGZ06, CEGMM09, CT09, Cui08, Dal09, DN09, DG00, DD02b, DKP07, Dun01, FM01, Joc05, KPS09, KY04, Lóp00, Mar06b, Mos05, Nak03, Nis02, NN01, PLN02, QW00, SS03b, SW08, SZ00, Sug09, Tsa07, Wan08, WC09]. **Asymptotically** [LRRBS09, Nak01]. **Asymptotically-Free** [Nak01]. **Asymptotics** [Bjo08, CFG06, GPV00, JN04, Joc00, Kag01, KS09a, MNR05, MV07, Miz01, PS00, dMKST09, vBPW08, EGW06]. **Attainable** [AG02]. **Attraction** [Ria04]. **Attractors** [HZ03, MZ05a, MPS05, MPS06, Rob00]. **Aubry** [Gom03]. **Autocatalysis** [CQ07]. **Avascular** [CE07]. **Average** [Sun07]. **Averaged** [HL06]. **Averages** [BG08]. **Averaging** [KY04, Wes02]. **Away**

[LLLY04]. **Axially** [Kan04, SZ07]. **Axisymmetric** [LW09, SZ05].

B [AH07, FG09]. **Background** [KS05a]. **Backscatter** [HHR09, HHR11]. **Balance** [FL00, GMS09, MP03]. **Balian** [BCP06]. **Banach** [FHW02]. **Band** [NW04]. **Band-Limited** [NW04]. **Bandlimited** [KP05]. **Based** [DY00, DLY07, FKK09, FMS03, HKP07, HSZ03a, HSZ03b, MCP08]. **Bases** [AS00, KS05b]. **Basic** [FG09, Grü03]. **Basis** [BCR01, LYY07, NW02, NW04, Yoo01]. **BC** [Bel03]. **BC-Method** [Bel03]. **Be** [FG09]. **Beams** [FMP09]. **Bearing** [WNW07]. **Bearings** [CJT09]. **Before** [BV05]. **Behavior** [BS00a, BS01, BK00, BDK09, CQW03, CEGMM09, CA00, Dal09, DS06, DG00, DD02b, DS05, Gev08, Han01, Hat03, Joc05, LRR06, LP08, LXY00, MV05, Nar08, NN01, PLN02, SS03b, Tak00, Wan00, WZF08]. **Behaviors** [Sug09]. **below** [VZ07]. **Bence** [Ish05]. **Bending** [Wan08]. **Benjamin** [MST01]. **Besov** [Wu05]. **Bessel** [Dun01]. **Between** [FM09, Miz03]. **BGK** [CS06]. **Bi** [Li05]. **Bi-isotropic** [Li05]. **Bifurcation** [CE07, DGG08, Du00, FL00, FH07, Hur06, KKSW08, KA00, Rob00, SS08]. **Bifurcations** [BPBW05, BW08, KS02a]. **Bilaplacian** [DDGM07]. **Billiard** [Pla09a]. **Binary** [Vis09]. **Bioelectric** [PSF05]. **Biofluid** [CCS07]. **Biorthogonal** [RTW01]. **Birefringent** [LP00]. **Birkhoff** [BB05]. **Birth** [FM04]. **Bistable** [BCC03, DIN04, Tsa07]. **Black** [Cré03]. **Blatz** [CP07b]. **Bloch** [COV02, MH01]. **Blood** [MOPMW06]. **Blow** [CCM07, EGW06, FMP05, Kim06, LP08, Mas01, MV05, WY08, YCL01]. **Blow-Up** [Kim06, LP08, WY08, YCL01, CCM07, EGW06, FMP05, Mas01, MV05]. **Blowup** [Esp05, HK06, Jen00, KLVZ09, VZ07, YZ05]. **Body** [AMR02, BFV08, BCV06, CL04, PP04]. **Bogdanov** [Sti00]. **Boltzmann** [Li11, FKW06, Li09, MT07a, Nis02]. **Bolza** [CP07b]. **Bose** [AB06]. **Bottle** [KRS09]. **Bound** [DW05, KPS09, LM08, LW08]. **Boundaries** [BMR09, MV07]. **Boundary** [Abd03, AG01a, AMR02, AD05, AH07, ABDG04, ANR09, AG02, AMRT09, BX09, BIY08, BFV08, BFG04, BV00a, BGM08, BL01, BW04, Bos03, Bos05, BV02, BFK03, CKK06, CK01a, Cas03, CF00, CF03, CC07, CE07, Cui08, Ebm00, EGG03, FH01, FP02, FS05, FH07, GIK05, GIK08, Gev08, Gor02, GJT06, Gui07, HR08, HP09, HMS03, HMS04, IV04, II01, JZ09a, KY03a, Kel06, Kry03, LLLY04, LS00, LP08, LCS03, MS04, MV05, NS07, NK08, PP04, PLN02, PP00b, PRS08, RW08, SR09, SS09b, WC09, YZ09]. **Bounded** [Bou00, GM01, Kel06, Mik09, ZS02]. **Bounds** [CWM08, DP05, Lay07, Lie05, MM05, ORS06, YZ09]. **Bourgain's** [MR02]. **Bourgain's-Type** [MR02]. **Bramble** [DL04]. **Branches** [Mar06a]. **Breaking** [GZ09, KKSW08, Tov08]. **Bridge** [Din03, Moo02]. **Brittle** [BD09]. **Brownian** [BDK09, DMPD09, FM04, Kry03]. **Bubble** [BV00a]. **Bubbles** [AHM09]. **Buckley** [vDPP07]. **Buckling** [HM09b, Pel01, Vui03]. **Buffered** [Tsa07]. **Bulk** [Bab08, CS07, SS03a]. **Bulk-Superconductivity** [SS03a]. **Burgers** [El 07, KMX08, KT01]. **Burgers-Type** [El 07]. **Bursts** [PS06]. **BV** [CRTW05].

C [FG09]. **C1** [HNZ06]. **Caffarelli** [DGP04]. **Cahn** [EGW06, Tan07]. **Calculus** [DS08, OW05]. **Calderon** [Bel03]. **Calibration** [Cré03]. **Call** [YYW08]. **Camassa** [Bjo08, dMKST09]. **Canard** [KS01]. **Capillary** [CN00, FS03, FS05, GW07, KP07, Sch05, Wah06]. **Capillary-Gravity** [Wah06]. **Carleman**

[Zha08]. **Cascade** [Han08]. **Case** [Bou08, CY04, DFLM09, FH01, Fou06, GG07, Hat00, Ing00, Pla09a, WXM06]. **Cases** [BD09]. **Casimir** [Rei01]. **Catastrophic** [Dum03]. **Cauchy** [CD01, CG08, CA00, Mik02, MR02, PP03]. **Cell** [BFG04, MOPMW06]. **Center** [FHW02, Kri04, KS00]. **Certain** [BS08, DD02a, KK02, KK05, MV05, Nis02]. **Chain** [HKP07]. **Changing** [WXM06]. **Channel** [LS01]. **Channels** [Cla00, EL07]. **Chapman** [LZ03]. **Character** [LLYZ03]. **Characteristic** [Tra06]. **Characterization** [Auc06, Brü01, KLVZ09, LW09]. **Characterizations** [Kyr04]. **Characterizing** [Pro00]. **Charge** [FG09]. **Charged** [CCD02]. **Charges** [EL07]. **Chemical** [FGHS07]. **Chemosensitive** [HKS05, HKS07]. **Chemostat** [WNW07]. **Chemotactic** [Wan00]. **Chemotaxis** [BDDS06, Dun00, TW09, Wan00, YCL01]. **Chemotaxis-haptotaxis** [TW09]. **Chip** [CF01]. **Chromatography** [ACFS09]. **Chronic** [MOPMW06]. **circles** [FKW06]. **Circular** [AK06, BV00b]. **Clamped** [CMM06]. **Class** [AS06, AG02, BP07, CK01a, CP07b, CD01, DIN04, DFM09, DZ08, Gev08, Gui07, HR06, Le05, RW00b, VZ07, vDPP07, Mus05]. **Classical** [BPR00b, LZ05, Lil07, WW07]. **Close** [LMR08, SS03a]. **Closure** [DE00]. **Cluster** [WW02]. **Coagulation** [BL07, LLW03, LW05, MP05]. **Coagulation-Fragmentation** [LW05]. **Coal** [MB08]. **Coarsening** [CNO06, DP05, ORS06, Sle08]. **Coast** [JLP06]. **Coefficient** [KS02b]. **Coefficients** [Ban03, BIY08, CK01a, CY04, CR05, GJX08, KMS07, KK07, Kry09, Mal00, WZF08]. **Coercive** [San05]. **Coexistence** [Dun00, HS02]. **Coinciding** [Bia01]. **Collisions** [CGL08, HT09]. **Column** [CM98, CM00]. **Combined** [TW09]. **Combustion** [Ala06, BW04, Du00, LZ03]. **Comment** [Pla09b]. **Compactly** [DGH00, HS08]. **Compactness** [BCD05, Rei01, SR09]. **Comparisons** [BPR00b]. **Compartmental** [MVNO08]. **Competing** [HLMP03]. **Competition** [FKK09, GR03, HS02, MT09]. **Competition-Diffusion** [MT09]. **Complete** [LRRBS09, Pro00]. **Completeness** [Pan09]. **Complex** [BBP05, KPT09, MT03, UW07]. **Complex-Valued** [MT03]. **Compliance** [KS02b]. **Composite** [BV00b]. **Composites** [BN02, Gra09]. **Compositions** [CDD03]. **Compressibility** [Ste04]. **Compressible** [AS07, CZZ07, FS00, GJX08, HZ03, Hof06, HW09, HMS03, HMS04, JNS06, JZ09a, KK04b, LXY00, MP01, MV08, NN09, NN01, NYZ04, PLN02, PW08, Per06, PRS08, QW09, WX05]. **Computation** [DKS02, ZD00]. **Computer** [AFM01]. **Concentrated** [BBP05]. **Concentrating** [DW05]. **Concentration** [DF06, DH08a, DH08b, MM05, Rei01, Tzi06]. **Concentration-Compactness** [Rei01]. **Concentrations** [Lip06]. **Concept** [BCN02]. **Condensates** [AB06]. **Condition** [Cas03, FLP05, Hat00, HSZ03a, HSZ03b, HK00b, II01, Kim09, MW09, MV05, Oga03, SZ07, Kim13]. **Conditions** [ANR09, AMRT09, Bos03, Cha06, Ebm00, EGG03, GIK05, GIK08, GJT06, HR06, HR08, IV04, Kel06, Lew01, Lew05b, Mar08, MS04, NRJ07, O'D08, Pis04, Xu04]. **Conducting** [Gra09, JNS06, JZ09a]. **Conductivities** [KY03a]. **Conductivity** [AG01a, AK03, Bri03, Gra09]. **Conductors** [Lip01]. **Cone** [GH09, KK08b]. **Configuration** [God09]. **Configurations** [GV00]. **Confined** [CCD02]. **Confinement** [AMP05]. **Conic** [GH09]. **Conjecture** [AH07]. **Conjugate** [HM09b]. **Connected** [EK08]. **Conservation** [CWY09, CR05, CHS08, CS06, Dal07, Ha01, HY03, HL02a, HL02b, IV04, Jen00, KL02, Laf04, Lew05a,

LS03, LT01, Nak03, NT08, Pan09, Roh05, Rou03, SP07, TT00, TTX03, vBPW08]. **Conserved** [Lau02]. **Conserving** [CGL08]. **Constant** [CG00, LM09]. **Constrained** [Ped00]. **Constraint** [BPBW05, CS07, LP08, MST07]. **Constraints** [BFG04, PS09b]. **Contact** [BJ09, KS02b]. **Containing** [CO05, Lew05a]. **Continuation** [CL00, HK00a, HW03, Isa01, Lil07, MH06, NW03]. **Continuity** [ACFS09, JW07, KK02, KK05]. **Continuous** [FLT09, Han08, Ing00, JJS00, Pon07]. **Continuum** [AC04]. **Contracting** [MPS06]. **Contraction** [OW05]. **Control** [LP08, Rou06, VZ09]. **Convected** [GP05, GP06]. **Convection** [CY04, ZY00]. **Convergence** [ABV06, BL06, BN08, BCM00, BO07, BCD05, CN06, CMS04, CHK08, God09, GR03, GWZ09, GK08, GK00, HSZ03b, Hor08, HW02, Ish05, KMX08, LYY07, MP03, MP05, NN09, NS05, Ped04, Pot07, TTX03, aLW09]. **Convex** [DL04, DGG00, Hwa04, JS02, KS05a, Bab08]. **Convexified** [IM04]. **Convexity** [DS08]. **Convolution** [LT01]. **Coordinates** [Lee09, Ste04]. **Copolymer** [RW03, RW05, RW08]. **Cord** [BFG04]. **Cores** [PS06]. **Corrected** [CM00]. **Corrections** [Wil09, Wri05]. **Correctors** [DFM09]. **Correlations** [BBN08]. **Corrigendum** [Kim13]. **Cortex** [CMS04]. **Couette** [KTvW05]. **Coulomb** [Ren06]. **Coupled** [BS08, GW06, Kov08, Sch02]. **Coupling** [BNR05, HR06]. **Couplings** [LAJ08]. **Crack** [BFV08]. **Cracks** [Gia05, Ron05]. **Criteria** [BK02]. **Criterion** [CCM07, DdlL00, Hat00, Kim06, LHK07, LTT03, Ren06]. **Critical** [AH08, CCP07, CNO06, CA00, DD02b, GPV00, HK06, HK00b, KLVZ09, LM08, LW08, LT01, SS03a, VZ07, WW02]. **Cross** [BV00b, CJ04, GJV03, Le05]. **Cross-Diffusion** [CJ04, GJV03]. **Cross-Section** [BV00b]. **Crossings** [KL08]. **Crystal** [Pon07]. **Crystalline** [CN06, GGH05]. **Crystals** [CGLL02, CP07a, GV00, LP07, Pan06]. **Current** [BNR05]. **Currents** [Alm08, JS02]. **Curvature** [BCQ01, CN06, II01, IM04, Ish05, Nar08]. **Curve** [Du00]. **Curved** [JLP06, MV07]. **Curves** [DKS02]. **Cusp** [HP09]. **Cylinder** [FS00, PP00a]. **Cylindrical** [JZ09a].

D [Kim13, Bos03, CF01, FH01, Kim09, LY05, MPP09, ST01]. **Dafermos** [LS03]. **Damkohler** [MDvD06]. **Damping** [DP09]. **Darcy** [Váz03]. **Data** [BIY08, Esp05, GH08, Lor00, NS07, NW02, NW04]. **Davey** [VA03]. **Dead** [PS06]. **Decay** [AGSS00, Bjo08, BY04, Deu09, HZ09, JM08, KK08b, Nak03, PP00b, Sch09, WY08]. **Decomposition** [JT09]. **Deconvolution** [DE06, Lay07]. **Decrease** [SS03a]. **Deep** [Hur06]. **Deep-Water** [Hur06]. **Definite** [BBW09]. **Defocusing** [KPT09]. **Deformable** [TY05]. **Deformations** [LL05]. **Degasperis** [WY08]. **Degeneracies** [DD02a]. **Degeneracy** [Xu03]. **Degenerate** [BK04, BK00, BFK03, GW06, HLMP03, PV05, Ria04, Sch08, Tak00, WZF08]. **Degenerate/Singular** [PV05]. **Degree** [CGLL02]. **Delay** [BK02, CLGZ06, LRR06, STZ02]. **Delayed** [HW03, LWS05, OW07, SZ00, WLW09]. **Delays** [CLGZ06]. **Delivery** [FP02]. **Denoising** [All08]. **Densely** [BN02]. **Density** [BIY08, DZ03, GP05, GP06, GJX08, PV05]. **Density-Dependent** [GJX08]. **Dependent** [BK02, Ble08, BMR09, CR05, Deu09, FMS03, GWZ09, GJX08, Sac04]. **Depth** [Sun01]. **Derivation** [CMM06, MCP08, PW08]. **Derivative** [CKS$^+$01, CKS$^+$02, GH08, HNS08, KK08b]. **Derivatives** [AGSS00, BG08, PP00b]. **Derived** [IK01]. **Dermal** [FP02]. **Derrida**

[JM08]. **Describing** [BFG04, FM09, Joc02]. **Description** [AK06, Mei08]. **Design** [Ped00]. **Deslauriers** [dVGH03]. **Destabilization** [DIN04]. **Detecting** [AMR02]. **Determination** [AD05, BFV08, CGL08, CY04, KY03a, NS07, Sin06]. **Determining** [AG01a, BIY08, CK01a, FPR04]. **Deterministic** [Sch05]. **Development** [AK00]. **Devices** [GG07]. **Diameter** [AK03]. **Diblock** [RW03, RW05, RW08]. **Dielectric** [AKS06, SZ05]. **Diffeomorphisms** [ESG05]. **Difference** [BW08, Mal00, PR01]. **Difference-Algebraic** [BW08]. **Differentiable** [DP03, SZ04]. **Differential** [BPBW05, BK02, BLM09, CLGZ06, GH03, GG07, GR03, HKP07, KS06a, KKSY02, KK07, KW01, KO00, LWS05, LTT03, LR09, MVNO08, NOV09, Pal09, WCD07, WLW09]. **Diffractive** [AR03, BL03]. **Diffusion** [AK00, Abd03, BDR09, BNR05, Ble08, Bos00, BDDS06, CCK07, CJ04, CQ07, CEGMM09, DE09, DFG02, FGHS07, GPV00, GJV03, GIK05, GIK08, GH05, HKM08, HS02, JZ09b, KL02, LRRBS09, Le05, Li08, MT07a, MB08, MT09, NRJ07, Osh04, Roh05, SZ00, Váz03, Wan00, WXM06, WW02, YCL01]. **Diffusion-Dispersion** [KL02, Roh05]. **Diffusions** [BX09, FLT09]. **Diffusive** [FGQ04, KT01, MP01, Sch00]. **Diffusivity** [BDR09]. **Dihedral** [EK08]. **Dimension** [Bab08, BGM08, CD08, HIN04, Mar06a, Mas01, Ryb01, Tzi06]. **Dimensional** [Alì03, ABV06, BCR01, Bel03, BCV06, BKL04, Cas03, CWY09, CGZ09, CY04, CN00, CS06, DFLM09, DG09, ET09, FLP05, Fil07, HK00a, HT09, HZ03, HP09, HL02a, HL02b, JNS06, KS09a, Kim02, KSS02, LZ05, LP02, Lim02, LP09, MT03, MV08, MH01, Nak03, NS09, NS04, PLN02, Pin00, Pla09a, RW03, Sac04, SZ09, Xu04, Yua06]. **Dimensions** [FLT09, Kan04, KS01, Lie05, VZ07, Zha03a]. **Diode** [GSZ04]. **Dirac** [Bou08]. **Directional** [Bri03, KS09c, Zui00]. **Dirichlet** [AMRT09, CY04, EK08, HN05, Ing00, KY03a, KM01, MS04, ZY00]. **Dirichlet-to-Neumann** [Ing00, KY03a]. **Discontinuities** [Tra06]. **Discontinuity** [AFM01, CWY09, Mor03]. **Discontinuous** [CR05, KS02b]. **Discrete** [AC04, CT09, Ing00, JJS00, Kat05, KPS09, LAJ08, Mac04, Nis02, Pon07, RL06, VA03, FKW06]. **Discrete-Time** [LAJ08]. **Discretization** [Lim02]. **Discretizations** [GH03]. **Disk** [KS09a]. **Dislocation** [BCLM08, El 07]. **Dislocations** [CL05, FM09, GM05, Pon07]. **Disorder** [CP07a]. **Dispersion** [Ban03, KL02, Kur04, MJZ04, Roh05, WZ05]. **Dispersion-Managed** [Kur04]. **Dispersive** [CL09, GZ09, KS07, MR02, Pro02, Sze05, Mus05]. **Displacement** [BF06, DS08]. **Dissipation** [Lay07]. **Dissipative** [BNR05, Cha06, HNS08, MR02, SS03b, Tra06, Wu05, WY08]. **Distance** [CDJ08, DS08, OW05]. **Distribution** [AH07, Bri03, GW07, The04, Van01, Van85]. **Distributional** [JJS00]. **Divergence** [Kry09]. **Divergent** [LY09]. **Domain** [ABDG04, AC07, CCK07, Fil07, FLM01, GG00, GP05, GP06, Hwa04, Kel06, Kim02, Mik09]. **Domains** [Ble08, CLR02, DL04, DG00, Ebm00, EK08, Han01, HR08, HN05, KK04a, KS09b, MV07, NRJ07, Pla09b, Ria04, WCD07]. **Dominant** [MDvD06]. **Doniach** [BK05]. **Doping** [WXM06]. **Doppler** [Pal09]. **Doring** [LZ03]. **Double** [MPS05, MPS06, Sac04]. **Double-Well** [Sac04]. **Doubly** [EK08, Vis07]. **Down** [GK08]. **Drift** [BNR05, BDK09, WXM06]. **Drift-Diffusion** [BNR05]. **Driven** [DDT04, DFG02, GSR05, LR09]. **Droplet** [Grü03, ORS06]. **Drug** [FP02]. **Dual** [CDY04]. **Duality** [BV02]. **Dubuc** [dVGH03]. **Ducts** [Yua06]. **Duffin** [Nik01]. **Dynamic**

[BJ09, EGG03, KS02b, MN00, MP08, SZ09]. **Dynamical** [BS08, DS06, IWY08, LAJ08, MZ05a, MP05]. **Dynamics** [AG01b, BCC03, BV05, BV00a, CK01b, CFG06, DLS05, DKP07, El 07, Fil07, FM09, GW07, GSZ04, HW02, JZ09b, KK08a, KGB06, Lim02, NT08, Tri08, Wan00, WCD07]. **Dynamo** [GV05].

e-MHD [PW08]. **Ecological** [GH03]. **Ecology** [FKK09]. **Eddy** [DE06]. **Edge** [CDY04, KS02a]. **Effect** [AM05, GV05, Gra09, Pan03, WNW07]. **Effective** [BBP05, Gra09, NRJ07, WCD07]. **Effects** [DD02a, Gia05, Wan00, Xu03]. **Eguchi** [HIN04]. **Eigenvalue** [BCN05, EK08, HKK01, Rob04]. **Eigenvalues** [EL02, JN04, JLP06, KM01, KS03a, PS08a]. **Eikonal** [MT03]. **Einstein** [AB06]. **Elastic** [AMR02, Are01, BL06, BF06, BFV08, BJ09, CP07b, CCS07, CMM06, DKS02, Gra08, HM09b, LL05, Pon07]. **Elasticity** [Hor08, KN00, Kim00, MH06, NW03, SS09b, UW07, Wan08]. **Elasto** [Mie04, NK08]. **Elasto-Plasticity** [Mie04, NK08]. **Elastodynamics** [Rie03]. **Elastoplasticity** [Ste08]. **Electric** [Alm08, HHR09, HHR11]. **Electrical** [Brü01, KKSY02]. **Electromagnetic** [AN00, AKS06, Joc05]. **Electronic** [FG09]. **Electrostatic** [GG07, Li09, Li11]. **Element** [BFP08]. **Elementary** [HM09a]. **Ellipse** [BPR00a]. **Elliptic** [AGGM05, BCV06, Bla06, BV00b, CF03, CE07, DRY07, DG00, DLS05, Du00, Ebm00, GW09, KMS07, KY03b, KK04a, KK07, LYY05, Lip01, Lóp00, MG05, NK08, Osh07, PR01, PS06]. **Elliptic-Hyperbolic** [CF03]. **Elliptical** [BPR00b]. **Emission** [MN00]. **Energetic** [MT07b]. **Energies** [AC04, Bab08, DF06, Ort06]. **Energy** [BL06, BCM00, CGL08, CL05, CS07, CM06, CR03, CO05, GP05, GP06, HLTT08, Joc05, KTvW05, KS09b, Lay07, Li09, Li11, LL00, MS06, MM05, Pon07, Rei01, RL05, ST08, VZ07]. **Energy-Casimir** [Rei01]. **Energy-Conserving** [CGL08]. **Enhanced** [MB08]. **Ensemble** [DN09]. **Entire** [MT09, WLW09]. **Entries** [JN04]. **Entropy** [BK04, CD01, Hat00, Pan09, vDPP07]. **Equation** [AMSW05, Abd03, AH08, AP06, ABDG04, AMRT09, BL07, BV08, BNP06, BD06a, BC05, BD02, BFK03, CCG05, CW00, CQW03, CO06, CHK05, CCP07, CDM08, CT09, DW05, DDT04, DG09, Esp05, FH07, GPV00, GG00, GH08, GJT06, GW09, GZ09, HIN04, Han01, HNS08, JW07, Joc05, Joh09, JP00, JM08, JM09, JLM01, Kag01, KK08a, KMX08, KK08b, KKS00, KS06a, KPS09, KT01, KKSY02, KY03b, Kim05, KN09, KPT09, KP08, Kry01, Kry03, Kur04, LLW03, Lau02, LW05, LRR06, Len08, LL06, Li09, Li11, LP09, LW09, MT03, Mal00, MS04, Mik09, MJZ04, MR02, Moo02, Nak01, Nis02, NS04, OT07, PP03, Piv00, Sac04, SS09a, Sze05, Tak00, Tzi06, VA03, VZ07, Wu05, WY08, Yin04, dMKST09, vDPP07, EGW06, FKW06]. **Equations** [AK00, ACFS09, AS07, AGSS00, AG01b, BT07, Ban03, BDR09, BS00a, BS01, BCLM08, BPBW05, BW08, BCN02, BK04, BV05, BS00b, BK00, Bjo08, Bos00, BC06b, BG08, BKL04, BLM09, BSB03, CCM07, CK01a, Car03, Cha06, CM01, CD01, CL03, CMZ08, CCS07, CT08, CP00, CKS$^+$01, CKS$^+$02, Coo00, CMJ09, CA00, CF06b, DGP04, DS06, DLS05, DGG08, DS05, DFM09, DMPD09, EGG03, ET09, Fou06, FS00, FC06, GZ00, GH03, GG07, Gom03, GP04, GR03, GWZ09, GK05, HKP07, HK06, HZ03, Hof06, HL06, HZ08, HKS05, HKS07, Ift02, IL05, JJS00, JNS06, JZ09a, KK02, KK05, Kel06, Kim02, KK04a, Kim06, KK07, Kim09, Kim13, KW01, KKSW08, KA00, KS07, KPT09, KO00, LWS05, Li05, LY05, Lil07, LP02, LW08, Lip01, LTT03, Loe06, LS01, LCS03]. **Equations** [LR09, LXY00, Mar08, Mar06b, MV08, MH01, MP05, MS06,

MB08, Mik02, MR04, Miz01, Miz03, MST01, MST07, MT09, MVNO08, NYZ04, Nob09, NOV09, PW08, Per06, Pin00, PRS08, PS06, QW09, SW09, Sch00, Sch08, SZ07, ST01, SZ00, Spi03, Tan07, VZ09, Váz03, WX05, WCD07, WLW09, WZF08, YCL01, YZ05, Zha03b, Zha08, vdBHV01, BC06a, Mus05]. **Equidistributed** [CF06a]. **Equilibria** [CJT09, FL00, MR08, Ort06, PS08b, Ria04]. **Equilibrium** [GV00, GWZ09, HZ09, NS05, Wal09a]. **Equivalence** [JLM01]. **Equivariant** [AHM09]. **Ergodicity** [GK08]. **Erratum** [HHR11, HKS07, KK05, Li11, Van01]. **Error** [BN02, BGL07, Laf04, NW02, NW04, TT00, Wil09]. **Errors** [JWW07]. **Estimate** [BY04, CCM07, Laf04]. **Estimates** [BGL07, CQ07, CD08, HH01, JW07, KM01, KK08b, Lor00, NW02, NW04, PV05, SS09b, TT00, Wil09, Zha08]. **Estimation** [Rou06]. **Euclidean** [BGL07]. **Euler** [ABR00, Alì03, BCN02, CL03, CZZ07, CT08, ET09, HL06, Kim02, Lil07, Loe06, NT08, PW08, Yua06]. **Euler/Euler** [NT08]. **Eulerian** [DS08, OW05]. **European** [YYW08]. **Evaluation** [BCR01, CDD03]. **Evans** [BGSZ01, KS02a]. **Evolution** [AMRT09, BFG04, CGLL02, CWY09, DKS02, GL08, GP05, GP06, BC06a]. **Evolutionary** [MT07b]. **Exact** [Du00, Gra09]. **Exactly** [MC01]. **Example** [BCP06, Dum03]. **Exchange** [Joc05]. **Excited** [KW01]. **Exclusions** [Tor04]. **Exercise** [BX09, CC07]. **Existence** [AS06, ABR00, Alì03, BCLM08, BR06, BS00b, Bos05, Cas03, CDJ08, CWM05, CdMGGK09, CT08, CJT09, CEGMM09, CDM08, DZ03, DH08a, DKS02, EM09, ET09, Fig07, FM09, GH05, Gra08, Hat03, HKP07, Joc02, JLP06, JM08, Kat05, Kur04, LZ05, MT03, MV08, MN05, MS06, Mie04, MPP09, MB08, Mus05, Per06, PS09b, Pis04, Rög05, RL05, ST08, Sch09, SZ09, ST01, Sun01, WW07, YCL01]. **Expanding** [GGH05, MPS05]. **Expansion** [Bou00, KY04]. **Expansions** [AL06, AK03, CDD03, Dun01, GK00, Lóp00]. **Explicit** [BCN05, Brü01, CWM08, DZ08, FG09, ZD00]. **Exponent** [GPV00, GW09, HK00b]. **Exponential** [AGGM05, DDGM07, HZ03, KMS07, MV05, NOV09, QW00]. **Exponents** [LM08]. **Extended** [HM09b]. **Extending** [BGL07, KS01]. **Exterior** [GG00, KN00, MS06]. **External** [DO09]. **Extinction** [HS02]. **Extra** [FM04]. **Extracting** [CDY04]. **Extremal** [BD09, EK08].

F [FG09]. **Faber** [DK08]. **Factorization** [RTW01]. **Families** [CL04]. **Family** [CL00, FPR04]. **Far** [Sin06]. **Fast** [BCR01, GPV00, Váz03]. **Fast-Diffusion** [GPV00]. **FDEs** [FHW02]. **Feedback** [HW03, STZ02]. **Feline** [FLM01]. **FeLV** [FLM01]. **Fermion** [NS05]. **Ferromagnetism** [Joc02]. **Fiber** [BD09, Gra09, GK08, LP00]. **Fiber-Reinforced** [Gra09]. **Fibers** [BV00b, Bri03]. **Field** [BF06, DP05, DD02b, DO09, GSR05, GM05, GP04, Joc05, KSS02, LP07, Lip06, SS03a, Sin06, Wan08]. **Field-Induced** [LP07]. **Fields** [Lee09, LW09, Pan03, Sch02]. **Film** [BL06, BS00b, CD08]. **Films** [CM06, DD02b, GW06, Hor08, Pan03]. **Filtration** [BFK03]. **Finance** [FLT09]. **Finite** [BFP08, FLT09, FS01, Grü03, HZ03, KGB06, Mie04, Sun07, YZ05, dVGH03]. **Finite-Dimensional** [HZ03]. **Finite-Time** [YZ05]. **First** [Abd03, CCCS06, EK08]. **Fixed** [AIM03, Pro01]. **Flat** [LYY07, Tak00]. **Flow** [AC08, AHM09, BR03, BNP06, BDV03, CP07a, CN06, CGZ09, CGP05, DMP06, EKK09, FLP05, FS03, FS05, GH09, GGH05, HR06, HZ03, Hof06, HP09, KTvW05, MP01, MDvD06, Nar08, NN01, Oga03, Rög05, Sch08, IM04]. **Flows** [Ala06, AS07, Amo01, AHT03,

BFP08, BMR09, CCG05, CR06, CR03, CZZ07, CF01, Deu09, DE06, EM09, ESG05, FMS03, FS00, FM01, GJX08, HW09, JZ09a, Kan04, KK04b, Lin03, LY09, MR04, MT08, Ort06, Per06, SS03b, Sch09, Sun01]. **Fluid** [AG01b, Dal09, DLS05, Gra08, HT09, HP09, MP08, MT08, NN09, Per06, Rou07, ST08, Sun01, WC09]. **Fluids** [BP07, BMR09, CR06, CM01, CL03, FMS03, FGM05, FS00, HZ09, JNS06, ZZ08]. **Flux** [AC07, Cas03]. **Focus** [BD06b]. **Focusing** [Dum03, KLVZ09, VZ07, SZ05]. **Fokker** [Kag01]. **Fold** [KS01]. **Food** [OW07]. **Food-limited** [OW07]. **Föppl** [CMM06]. **Forced** [BB08, DS05, HK00a, LLYZ03]. **Forces** [CL05, WX05]. **Form** [Kry09, Pal09, QXM08, Xu04]. **Formal** [FHW02]. **Formalism** [Fra07, LL05]. **Formation** [CdMGGK09, CL03, CWY09, HP09, HW03, Ren00, Vis09]. **Forming** [DS09]. **Forms** [BW08]. **Formula** [BF06, BCQ01, QW00]. **Formulation** [Dal07, IV04, MT07b]. **Formulations** [Wan08]. **Four** [BCR01]. **Four-Dimensional** [BCR01]. **Fourier** [FN05, FS09, PN08]. **Fourth** [AGGM05, GB04, GJT06, GW09, JP00, SW09, vdBHV01]. **Fourth-Order** [JP00, GJT06]. **Fractal** [KMX08]. **Fractional** [DMPD09, TTX03]. **Fragmentation** [LW05]. **Frame** [Che00]. **Frames** [Joh03, NPW06]. **Framework** [BL03]. **Free** [AFM01, BFG04, BV00a, BW04, BFK03, CKK06, Cas03, CF00, CF03, CE07, Cui08, FH01, FP02, FH07, Gor02, Gui07, HMS03, HMS04, KS03b, LS00, Li09, Li11, MS04, Mor03, Nak01, PP04, PLN02, RW08, WNW07, WC09]. **Free-Boundary** [Cas03]. **Free-Discontinuity** [Mor03]. **Freezer** [KRS09]. **Frenkel** [QXM08]. **Frequency** [AN00, AIM03, Fou06, KS05b, Mac04]. **Freudenthal** [HNZ06]. **Friction** [FLP05, Kim09, Kim13, KS02b, Ren06]. **Frictional** [DP09]. **Friedrichs** [BL01]. **Front** [Laf04]. **Front-Tracking** [Laf04]. **Fronts** [DIN04, GR00, GR03, Sch05, Tan07, Tsa07]. **Fuel** [The04]. **Full** [QW09]. **Fully** [Gor02, IK01, KA00, Loe06]. **Function** [BPR00a, CDY04, DGH00, FPR04, KS02a, Kyr04, PS00, YZ09, Yoo01]. **Functional** [ABV06, BNP06, BDK09, BSB03, CRTW05, CO05, CMS04, DGG08, DO09, GR03, KTvW05, Lew05a, LTT03, MVNO08, NOV09]. **Functionals** [BN08, CH06, CF06a, MM05, Mor03, Rei01, Tzo06, Zag05]. **Functions** [Auc09, BCR01, BGSZ01, Can01, CGL04, CDD03, CLR02, CDY04, Dun01, EL02, Han08, KO00, MV05, NW02, NW04, Pla09b, Pro00, ZS02]. **Fundamental** [HKK01].

Gamma [BL06]. **Gamma-Convergence** [BL06]. **Gap** [CGL08, MM05]. **Gas** [BV05, HW02, HMS03, HMS04, PLN02]. **Gas-Solid** [HMS03, HMS04]. **Gases** [Bou00, GSR05]. **Gauss** [IM04]. **Gaussian** [DLY07, RW00b]. **Gaussian-Based** [DLY07]. **General** [AC04, BL03, Bri03, FHW02, Gra09, KS05b, MZ05b, WXM06]. **Generalizations** [BD02]. **Generalized** [BPR00a, CHK05, CCP07, Cré03, DS06, Dun01, Joh09, KTvW05, KO00, LL06, Mar06b, Miz01, Miz03]. **Generating** [Mor03]. **Generic** [FL00, Fra07, KL08]. **Gennes** [Pan03, Pan06]. **Genuinely** [Gev08]. **Genus** [Vui03]. **Geometric** [All08, AR03, BK02, Bos00, KS01, Len08, MH01]. **Geometrical** [CS07]. **Geometry** [BN02, BBP05, BD06b, TY05]. **Geophysical** [AG01b]. **Geostrophic** [AH08, SS03b, Wu05, Cha06]. **Gibbs** [CHK08]. **Gierer** [CK01b, DKP07]. **Ginzburg** [Spi03, BCM00, DF06, DO09, GWZ09, LL00, Pan06, SS03a]. **Glass** [Vis09]. **Global** [AH08, ABR00, Alì03, AS07, BCLM08,

BNP06, BC05, CdMGGK09, CO05, CHK05, CKS+01, CKS+02, CA00, DP09, ET09, GH09, GH05, HK00a, HK00b, HL06, Hur06, HKS05, HKS07, JP00, LZ05, LY09, LTT03, MZ05a, MH06, Mar06a, MV08, MR02, NS05, Per06, ST08, ST01, SZ00, WW07, WZF08, Wu05, YCL01, EGW06]. **Gluing** [MNR05]. **Goes** [IL05]. **Gordon** [OT07, Kat05, OT07]. **Gradient** [BNP06, CF06a, GL08, HK00a, MH06, Ort06, Zha03a]. **Gradients** [Lip01]. **Granular** [GJV03, Gor02]. **Graph** [Piv00]. **Gravitational** [LMR08]. **Gravity** [CN00, GW07, Wah06]. **Gravity-Capillary** [GW07]. **Green** [PS00, YZ09]. **Greene** [DdlL00]. **Gross** [Mar06a]. **Ground** [FG09, God09, LMR08, Rou06]. **Group** [KO00, ZD00]. **Grow** [KS09a]. **Grow-Up** [KS09a]. **Growth** [AC04, CF03, CE07, Cui08, DF06, FH07, Gia05, MW09, WC09].

Half [ANR09, BBW09, Kan04, Nak03, NN09, Nis02, WX05]. **Half-Line** [BBW09]. **Half-Plane** [WX05]. **Half-Space** [ANR09, Kan04]. **Hall** [Gra09]. **Hamilton** [BS00a, DS06, DS05, EGG03, Gom03, Pin00]. **Hamiltonian** [BPBW05, BB05, DL00, KW01, LL05]. **Hamiltonians** [Pis04]. **Hand** [BG08]. **Haptotaxis** [WW07, TW09]. **Hardening** [Ste08]. **Hardy** [VZ09, ZS02]. **Harmonic** [AMSW05, AHM09, Auc09, BFP08, Car03, CWM08, HLTT08, HSZ03a, HSZ03b, KKS00, MV05, Oga03]. **Harmonics** [ZD00]. **Hartree** [CO06]. **Hartree-Type** [CO06]. **Hats** [Tak00]. **Hausdorff** [CD08]. **Having** [CF06a, CLR02, Pla09b]. **Healing** [CF00]. **Heart** [PSF05]. **Heat** [BFP08, CK01a, ESG05, JNS06, JZ09a, KKS00, KN09, Kry01, Kry03, Lip01, Oga03]. **Heat-Conducting** [JNS06, JZ09a]. **Hele** [EM09, CR06, GP05, GP06]. **Helical** [ET09]. **Helicity** [Lay07]. **Helium** [God09]. **Helmholtz** [Fou06]. **Hemivariational** [MO09]. **Heterogeneous** [FLM01, KP08, Lip06]. **Heuristic** [DE09]. **High** [AK03, Bri03, Fou06, Mac04]. **High-Conductivity** [Bri03]. **High-Frequency** [Mac04]. **High-Order** [AK03]. **Higher** [AGSS00, DFLM09, HK00a, KN09, LY05, MJZ04, Mos05, NS04, VZ07, Wil09]. **Higher-Gradient** [HK00a]. **Highly** [ABDG04, FLM01, WX05]. **Hilbert** [Auc09, DL04, DMPD09]. **Hill** [GZ00]. **Hilliard** [EGW06]. **Hinged** [PS09a]. **Hölder** [Han08, HN05, KK02, KK05]. **Holes** [Fil07]. **Holm** [Bjo08, dMKST09]. **Homoclinic** [MPS05, MPS06, Rob00, SW09]. **Homogeneous** [Bra05, Mal00]. **Homogenization** [BD09, BGM08, BF01, Bri03, CDD06, CDG08, COV02, Dal07, DFM09, FS09, GP04, JT09, KMS07, Lip06, Lou06, MCP08, Mei08, MT07b, Nes07, Ped06, PR01, Sch08, Vis07]. **Homogenized** [BR03, BDK09]. **Hopf** [FL00, KA00, SS08]. **Hopping** [KL08]. **Hulst** [BL07, LLW03]. **Hunter** [BC05, Len08, Yin04]. **Hybrid** [BNR05]. **Hydrodynamic** [Xu09]. **Hydrodynamics** [CFdlL04]. **Hydrostatic** [AG01b, BKL04]. **Hyperbolic** [BR03, Bia01, CD01, CF03, CWY09, Cui08, DFM09, FL00, FC06, GR00, Gev08, GWZ09, HY03, HL00, HK00b, HL02a, HL02b, Joc02, Kim00, KA00, LRR06, Li08, MS04, Ren00, Tra06, vBPW08]. **Hyperbolic-Parabolic** [CD01, vBPW08]. **Hyperelastic** [CHK05]. **Hyperelastic-rod** [CHK05]. **Hypergeometric** [BPR00a]. **Hypoplastic** [Gor02]. **Hypothesis** [JWW07]. **Hysteresis** [AM05, EKK09, GJS09, KSS02]. **Hysteresis-Type** [GJS09].

Icosahedral [ZD00]. **Ideal** [CCM07, Lin03]. **Identification** [KY03b, KP05, LS00]. **Identity** [ZD00]. **II** [DH08b, FL00, HSZ03b, HL02b, MT03, VA03]. **Ill** [MST01].

Ill-Posedness [MST01]. **Image** [All08, CRTW05, DFLM09, GB04, SZ04]. **Images** [GM01]. **Immediate** [FMP05]. **Impact** [AS06, CLR02, Pla09b, QT05]. **Impedance** [Brü01, HHR09, HHR11, KKSY02, Sin06]. **Imperfect** [DFM09]. **Implicit** [Li09, Li11]. **Inclusion** [AMR02, AD05]. **Inclusions** [Brü01, UW07]. **Incompressible** [FLP05, FM01, GV05, Kim06, LZ05, Loe06, PW08, Rou07, ST08]. **Increasing** [CR06]. **Increasingly** [LYY07]. **Incremental** [Mie04, NK08]. **Individual** [FKK09]. **Induced** [Ble08, LP07, MPP09, Pon07]. **Inequalities** [Ban03, BDK09, DGP04, Lip01, MT07b, Nik01, VZ09]. **Inequality** [BPR00a, DK08, MO09, Oga03, YYW08]. **Infinite** [FLT09, JN04, MH01, ST08, Sun01, Van01, Van85]. **Infinitely** [Kur04]. **Infinitesimal** [NK08]. **Infinity** [IL05, Mar08]. **Inflow** [QW09]. **Influence** [BFG04]. **Inhibitor** [WNW07]. **Inhomogeneities** [AK03, AIM03, BF06]. **Inhomogeneous** [CEGMM09, FMP09, GSR05, HH01, PRS08, dPKW07]. **Initial** [Bos05, FS05, GH08, LP02, NP00, PP00b]. **Initial-Boundary** [Bos05, PP00b]. **Initial-Value** [NP00]. **Initiation** [FFH02]. **Innovation** [Sun07]. **Instabilities** [LP07]. **Instability** [BD02, CCP07, DFG02, LP00, Lin03, OT07]. **Installment** [YYW08]. **Instantaneous** [HP09, STZ02]. **Integrable** [GMS09, KS02a]. **Integral** [AC04, Bab08, MM05]. **Integrals** [CDD06, DGG00, Lóp00, RW00b]. **Integrodifference** [HZ08]. **Intensity** [CDY04]. **Interacting** [CKK06, CCS07, FGQ04, Rou06]. **Interaction** [CS07, CO05, God09, Gra08, HT09, MC01, Miz03, SZ09]. **Interactions** [WZ05]. **Interface** [AK00, BL06, DO09, LXY00, NRJ07, O'D08]. **Interfaces** [DFM09, Osh04]. **Interfacial** [Sle08]. **Interior** [CK01b, dPKW07]. **Intermediate** [CGL05]. **Interpolants** [LYY07]. **Interpolation** [DY00, NW02, NW04, Yoo01, dVGH03]. **Interpolatory** [DLY07]. **Interval** [Van01, dVGH03, Van85]. **Invariance** [Kri04]. **Invariant** [BCV06, BSB03, CL00, Kag01, Kim05, BW08]. **Inverse** [BT07, BIY08, BBW09, CCCS06, HH01, HHR09, HHR11, IWY08, KK08a, KKS00, Li05, O'D08, Piv00, Ryb01]. **Inversion** [CN01]. **Inviscid** [FLP05, Kim09, Kim13]. **Involving** [BPR00a, BPR00b]. **Ion** [EL07]. **Ionized** [Rou07]. **Irregular** [BN02]. **Isentropic** [BV05, CL03, CGZ09, GJX08]. **Isolas** [BKL$^+$09]. **Isolated** [KGB06]. **Isopolar** [Zwo01]. **Isosceles** [CL04]. **Isospectral** [Amo01]. **Isothermal** [Hat00, HW02, Xu09]. **isotropic** [Li05, HL02a]. **Issues** [MST01]. **Iterated** [Abd03].

J [HKS07, Pla09b]. **Jacobi** [BS00a, DS06, DN09, DS05, EGG03, Gom03, JN04, Pin00]. **Josephson** [CFTV03]. **Jouguet** [LZ03]. **Journal** [CJT09]. **Jump** [BX09, FLT09]. **Jump-Diffusions** [FLT09]. **Junction** [CHS08, CG08]. **Junctions** [CFTV03, FM09, MP08]. **Justification** [AG01b, DdlL00].

Kac [CGL08]. **KAM** [DdlL00]. **Kantorovich** [AHT03]. **Karman** [Kim05, BJ09]. **Kawahara** [BD02]. **KDV** [Tov08, KPT09, Mar06b, Miz03, Wri05]. **Keller** [KS09a, BDDS06, Sug09]. **Kernels** [AL06, Auc09]. **Khokhlov** [KP08]. **Killing** [BFG04]. **Kinetic** [BV05, BG08, CS06, Dal07, HL00, IV04, JT09, NS05]. **Kinetics** [FGHS07]. **Kirchhoff** [BGM08]. **Klein** [OT07]. **Knot** [KS03b]. **Ko** [CP07b]. **Kohn** [DGP04]. **Koiter** [BL01]. **Kolmogorov** [PP03]. **Kontorova** [QXM08]. **Korteweg** [CCP07, DDT04, Joh09, MC01, Miz01]. **KP**

[MST07]. **KP-Type** [MST07]. **Krahn** [DK08]. **Kuznetsov** [KP08, LP09]. **Kuznetsov-Type** [KP08].

Lack [BCD05]. **Ladders** [BKL+09]. **Lagerstrom** [HM09a]. **Lagrange** [Lil07]. **Lagrangian** [CF06b, HL06]. **Lakes** [DE09]. **Lamé** [BIY08, IWY08]. **Lamellar** [RW03, RW05]. **Landau** [GWZ09, BCM00, DF06, DO09, LL00, Pan06, SS03a, Spi03]. **Laplace** [ABDG04, IL05]. **Laplacian** [AMRT09, CQW03]. **Large** [BS00a, BL03, BK00, BDK09, DS06, DLS05, DS05, DE06, FG09, Hat03, Kim09, KS09b, Lew01, MZ05b, Miz01, Moo02, Nar08, Sun01, WW02, YZ09, Kim13]. **Large-Amplitude** [MZ05b, YZ09]. **Large-Eddy** [DE06]. **Large-Time** [DS05]. **Larmor** [FS01]. **Lasers** [BL03]. **Lateral** [Kry03]. **Lattice** [BCC03, FKW06, KGB06, SZ09, WLW09, Zho01]. **Lattices** [AB06, CFG06, HLTT08, KS05b]. **Law** [BN08, CR06, Dal07, HL02a, HL02b, MP03, Pan09, Spi03, Váz03]. **Lawrence** [BK05]. **Laws** [CWY09, CR05, CHS08, CS06, FL00, FLT09, GMS09, Ha01, HY03, IV04, Jen00, KL02, Laf04, Lew05a, LS03, LT01, Nak03, NT08, Roh05, Rou03, Sch05, SP07, TT00, TTX03, vBPW08]. **Lay** [GK08]. **Lay-Down** [GK08]. **Layer** [CCK07, Lim02, LCS03]. **Layered** [BK05, Ing00]. **Layers** [JZ09a, MB08, SR09, YZ09, dPKW07]. **Leads** [CMM06]. **Least** [LLYZ03]. **Lebowitz** [JM08]. **Left** [BBW09]. **Left-Definite** [BBW09]. **Lemma** [BL01, DL04]. **Length** [BPR00a, BPR00b]. **Leukemia** [FLM01, MOPMW06]. **Level** [KL08]. **Leverett** [vDPP07]. **Lewis** [BB05]. **Lewis-Type** [BB05]. **Li** [FG09]. **Lieberman** [MW09]. **Lifespan** [CM01]. **Lifshitz** [Lau02, NP00]. **Lifting** [Kei01]. **Light** [DGG08, KK08b]. **Like** [FGM05, Tor04]. **Limit** [ABR00, BW04, CL03, DO09, DE09, FGHS07, FLP05, Fil07, FG09, GM05, HW09, HLMP03, JNS06, Joc02, Kim09, Kim13, LZ05, LS01, Lou06, MP03, MT07a, MT08, Osh07, WX05, WXM06, Xu09, Zha03b, EGW06]. **Limited** [NW04, OW07]. **Limiting** [DH08b, Oga03]. **Limits** [AC04, FGQ04, HK00a, IL05, KL02]. **Line** [BBW09]. **Linear** [BFV08, BL01, BC06b, BD02, BST05, BFK03, BDDS06, DPR09, Don00, FC06, JLP06, JLM01, KMS07, Kim00, Li08, LP02, Mal00, Mar06b, MW09, MC01, PP00b, QT05, Ren00, San05, STZ02, Yoc07, vBPW08, BS01, BK04, BBF06, DH08a, DH08b, FS03, FS05, Ria04, Rob04]. **Linearized** [CGNT08, GIK05, Hor08, LMR08, SS09b, WX05]. **Lines** [FL00]. **Liouville** [BBW09, Esp05, Piv00]. **Lipschitz** [BFV08, CZZ07, FMS03, HN05, Ron05]. **Liquid** [CGLL02, CP07a, LP07, Pan06, Tri08]. **Liquid-Vapor** [Tri08]. **Littlewood** [ZS02]. **Local** [AK00, CM02, CN01, CDJ08, Cré03, GH08, GK00, Han01, KY03a, KS07, LL05, Roh05, TY05, Tzo06]. **Localization** [AP06, GG00]. **Localized** [BKL+09, DPR09, JLP06, NPW06]. **Locally** [AP06, NW02]. **Logarithm** [Abd03]. **Logarithmic** [Oga03]. **Logistic** [TW09]. **Long** [BS01, BD06a, CQW03, CO05, CT08, Joc00, Kag01, MS06, YZ09, dMKST09, vBPW08]. **Long-Range** [CO05]. **Long-Time** [BS01, CT08, Kag01, MS06, YZ09, vBPW08, dMKST09]. **Look** [MR08]. **Loops** [MPS05, MPS06]. **Lorenz** [MPS05, MPS06, Rob00]. **Losing** [CCM07]. **Loss** [LWS05]. **Lotka** [LRRBS09, MT09]. **Love** [BGM08]. **Low** [Ala06, AN00, GH08, HW09, Mus05, BCP06]. **Low-Frequency** [AN00]. **Lower** [Bab08, Xu04]. **Lubricated** [CJT09]. **Lubrication** [Wil09]. **Lyapunov** [CH06, Lew05a].

Mach [Ala06, CKK06, HW09]. **Macro** [HZ09]. **Macroelements** [LS02]. **Macroscopic** [MCP08, WCD07]. **Magma** [SW08]. **Magnetic** [DD02b, GSR05, KKSY02, LP07]. **Magnetics** [KK08a]. **Magnetohydrodynamic** [EKK09, HW09]. **Magnetohydrodynamics** [GV05]. **Magnetostrictive** [RL05]. **Managed** [Kur04]. **Management** [CCCS06, MJZ04]. **Manakov** [DE00]. **Manifolds** [BW08, Bel03, CG00, FHW02, Kag01, Kri04, KS00]. **Many** [Kur04]. **Map** [AHM09, BFP08, CY04, QT05]. **Mapping** [SZ04]. **Mappings** [CG00]. **Maps** [CDJ08, DdlL00, FHW02, Fig07, Ing00, Kri04]. **Martensitic** [CM06, Hor08]. **Masks** [Han08]. **Mass** [KLVZ09, MST07, Tzi06]. **Mass-Critical** [KLVZ09]. **Material** [BMR09, Gor02, KS06a]. **Materials** [BD09, CP07b, GJV03, RL05, Yoc07]. **Math** [HKS07, Pla09b]. **Mathematical** [AG01b, BMR09, CCG05, CC07, FLM01, FFH02, FLT09, IM01, PS09b]. **Mather** [Gom03]. **Matrices** [JN04, LK01]. **Matsumura** [HIN04]. **Maxwell** [DW05, GWZ09, KK02, KK05, Li05, MH01, PW08]. **Mean** [BCQ01, CN06, DP05, FPR04, GP04, II01, Ish05, Lee09, Nar08]. **Mean-Field** [DP05]. **Measurable** [KK07, Lor00]. **Measure** [LHK07, Rie03, Rig06, Zha03b]. **Measurements** [AG01a, AMR02, AD05, BFV08, CK01a, Sin06]. **Measures** [BF01, CP07a, CHK08, Kim05, Mac04, Ped04, Ped06, Zha03a]. **Mechanical** [BSB03]. **Mechanism** [LP00]. **Media** [AS07, BDV03, CL09, FS03, FS05, GG00, HL02a, HL02b, KP08, Li05, Lip06, MP01, Mei08, NN01, Sch05, Tor04]. **Median** [DY00]. **Median-Interpolation** [DY00]. **Mediated** [HKM08]. **Medium** [AP06, BV00b, HH01, KS05a]. **Meinhardt** [CK01b, DKP07]. **Meissner** [BCM00]. **Membrane** [ABV06]. **Membranes** [CMM06]. **Memory** [DFG02, MPP09, Ste05, Yoc07]. **MEMS** [GG07]. **Merriman** [Ish05]. **Metaphor** [DE09]. **Metastability** [KT01]. **Method** [Bel03, BF01, CDD06, CDG08, CDY04, FMS03, GK05, HSZ03b, Pro02]. **Methods** [BCR01, BST05, CWM05, CP00, GW07, MS06, SR09]. **Metric** [Kov08]. **Metrics** [KY03a]. **MHD** [CCM07, PW08]. **Micro** [HZ09]. **Micro-Macro** [HZ09]. **Microlocal** [Sze05]. **Micromagnetism** [Joc05]. **Mild** [Bos05]. **Minimal** [BD06a, CLR02, KLVZ09, Pla09b, Tor04]. **Minimal-Mass** [KLVZ09]. **Minimax** [GH03]. **Minimization** [BST05, CR03, Li09, Li11]. **Minimizers** [BCM00, CO05, CF06a, DGG00, Mie04, RL05, Tzo06]. **Minimizing** [AHT03]. **Minimum** [CQ07, Zag05]. **Miscible** [AS07]. **Mixed** [Ebm00, HR08, Roh05]. **Mixtures** [CNO06, FGM05, Rou07]. **Mode** [LP00]. **Model** [AM05, ABR00, Alì03, AC08, BR03, BL06, BR06, BL01, Bou00, BFK03, BDDS06, BS05, CGL08, CdMGGK09, CF00, CJ04, Cré03, CS06, DFLM09, DD02a, DKP07, DE06, FKK09, FLM01, FFH02, FM09, GM05, GL08, God09, Gor02, GR03, HM09a, HZ09, IM01, JZ09b, Joc00, KS09a, KGB06, LZ05, LZ03, Lie05, LT01, MCP08, MP08, MPP09, MB08, MC01, NS05, Nis02, ORS06, OW07, Pan06, PV05, QXM08, SS03a, Sch05, SZ09, Ste05, Tov08, WW07, WNW07, Xu09, ZZ08, aLW09, dPKW07]. **Modeling** [BBF06, CFTV03, Cui08, FH07, PSF05, WC09]. **Modelling** [CCG05, CQ07, CE07, DH08a, DH08b, YCL01]. **Models** [BNR05, CGL05, DP05, DZ03, FM00, GH05, HR06, HKP07, KSS02, LRRBS09, Lay07, Wal09a, WXM06, Wan08, FKW06]. **Modes** [DPR09, HLTT08, Kur04, SZ05]. **Modified** [KPT09, LP09]. **Modulational** [Pro02]. **Moduli** [BMR09]. **Molecular** [Li09, Li11]. **Moment** [KN09]. **Moments** [KKS00]. **Momentum** [CGL08]. **Monge**

[AHT03, JW07]. **Monostable** [CFG06, CDM08, WLW09]. **Monotone** [KS03b]. **Monotonicity** [BPR00b]. **Morphogen** [aLW09]. **Morphological** [NS04]. **Morphology** [RW08]. **Moser** [CN01]. **Motility** [Wan00]. **Motion** [BCQ01, DMPD09, FM04, II01, Ish05, PP04, Spi03]. **Motions** [QT05]. **Movement** [HKS05, HKS07]. **Moving** [Ha01, HY03]. **Mullins** [Rög05]. **Multiclass** [BR03]. **Multidimensional** [BV05, CJ04, Cla00, Cou02, GH09, GL07, Hof06, IV04, NN09]. **Multifractal** [Fra07]. **Multilevel** [Kyr04]. **Multiphase** [AC08]. **Multiple** [DRY07, HKM08, Moo02, ST01]. **Multiplicity** [Du00, RW00a]. **Multiresolution** [KS09c]. **Multiscale** [ABV06, BNG04, CDD03, PSF05, ZZ08]. **Multivariate** [BG04]. **Multiwavelet** [Kei01]. **Mumford** [CMS04]. **Mutilated** [Can01]. **Mutually** [FGQ04]. **Myelogenous** [MOPMW06].

N [FG09]. **Nash** [CN01]. **Natural** [GM01, MW09]. **Navier** [Kim13, AGSS00, ANR09, Bra05, BKL04, CCS07, DG09, FN05, FLP05, FM01, HZ03, Hof06, Ift02, JNS06, JZ09a, Kel06, Kim06, Kim09, KK04b, LW09, LXY00, MV08, MR04, Mik09, NYZ04, Per06, PRS08, QW09, SZ07, WX05, WZF08]. **Near** [HZ09, KS02a, LM09, Tak00, Tzo06, HLMP03, SS09b]. **Near-Periodic** [Tzo06]. **Negative** [GW09, STZ02]. **Neighborhoods** [Zha03a]. **Nematic** [CGLL02]. **Nernst** [EL07]. **Network** [BN02, BBP05, CGP05]. **Networks** [DMP06, HW03, LAJ08]. **Neumann** [LZ03, BBF06, BV02, CY04, HN05, Ing00, KY03a, KN00, MV05]. **Neuronal** [CMS04]. **Neurons** [HW03]. **Neutral** [CLGZ06, MVNO08, NOV09, WXM06]. **Newtonian** [BP07, CCG05, MT08, Rou07]. **Nirenberg** [DGP04]. **Nishiura** [FH01]. **NLS** [CGNT08, KLVZ09]. **No** [Pot07]. **Noise** [DDT04, DS05, JWW07, LR09]. **Non** [BP07, CCG05, Rou07]. **Non-Newtonian** [BP07, CCG05, Rou07]. **Nonautonomous** [HS02, LRRBS09, LWS05, NOV09]. **Noncharacteristic** [YZ09]. **Nonclassical** [HL00]. **Nonconservative** [El 07]. **Nonconvex** [BL06, BNP06, CM02, CP07b, IM01, LZ03, Ort06, Pis04, Rie03, TTX03, Zag05]. **Nondecaying** [Coz09]. **Nonelliptic** [Lil07]. **Nonexistence** [AS00, JS02, Mar08]. **Nonhomogeneous** [AMRT09, BB08, GJT06, JJS00, Kim06, Rob04]. **Nonhyperbolic** [KS01]. **Noninteracting** [Lew01]. **Noninvariance** [Kri04]. **Nonlinear** [AMSW05, AR03, BDR09, BW08, BGHR03, BD06a, Bla06, Bou08, BY04, BDDS06, CCD02, CCG05, CKK06, Car03, Cas03, CW00, CD01, CCS07, CGL05, CCP07, CA00, DRY07, DP03, DG00, DKP07, DY00, DE09, Dum03, DZ08, Ebm00, ESG05, FS09, GIK08, Gev08, GH08, GJT06, GW09, HK06, HK00b, HW03, HKS05, HKS07, IK01, Joc00, Joh09, JP00, JM09, KK08a, KPS09, KKSY02, KKSW08, KA00, KP08, Kur04, LW08, LT01, Loe06, MH06, Mar08, MJZ04, MG05, Moo02, Nak01, NK08, NYZ04, OT07, PP00a, PP03, Sac04, SS09a, Sch00, ST01, Sze05, Tzi06, VZ07, Vis07, ZY00, Mus05]. **Nonlinearities** [HNS08]. **Nonlinearity** [AGGM05, CDM08, DDGM07, LY05, LW08, WLW09]. **Nonlocal** [AMRT09, ABV06, Bos00, CEGMM09, CDM08, DPR09, DH08a, DH08b, GR03, JZ09b, Kur04, RW00a, RW08, Roh05, Sle08, Tzo06, BC06a]. **Nonmonotone** [HZ08]. **Nonnegative** [GW06, JP00]. **Nonresonance** [Xu04]. **Nonresonant** [Ha01]. **Nonsectorial** [GK08]. **Nonsmooth** [BLM09, Ebm00, HR08]. **Nonstationary** [DLY07, FM01]. **Nonsymmetric** [LK01, Rob00, San05]. **Nontwist** [DdlL00].

Nonuniform [Sun07]. **Nonuniformly** [Cou02]. **Nonuniqueness** [JM08]. **Nonviscous** [DS05]. **Nonzero** [Mar08]. **Normal** [Alm08, BW08, KS02b, Xu04]. **Normality** [CGL04]. **Norms** [IK01]. **Note** [Ren00]. **Nozzle** [CGZ09]. **Nozzles** [LY09]. **Nuclear** [FG09, The04]. **Null** [HK00b]. **Number** [Ala06, CWM08, HW09, Lie05]. **Numbers** [MDvD06].

O [FG09]. **Observability** [VZ09, Zha08]. **Obstacle** [Fil07, HKK01, NS07, Sin06]. **Obstacles** [MS06]. **Occurring** [Lip01]. **ODEs** [Ria04]. **Off** [CNO06]. **Off-Critical** [CNO06]. **Ohnishi** [FH01]. **Oil** [BDV03, Sch08]. **Oki** [HIN04]. **Oldroyd** [LZ05, MT08]. **One** [ABV06, Bri03, CGZ09, CS06, DFLM09, DG09, FM04, HIN04, HK00a, JNS06, KK07, KSS02, LP02, Lim02, Mar06a, MV08, Nak03, NS09, PLN02, Ryb01, Sac04, SZ09, Tzi06]. **One-Dimensional** [ABV06, CGZ09, CS06, DFLM09, DG09, HK00a, JNS06, KSS02, Lim02, MV08, Nak03, NS09, PLN02, Sac04, SZ09]. **One-Directional** [Bri03]. **Ono** [MST01]. **Onset** [Gui07]. **Oort** [BL07, LLW03]. **Operator** [DPR09, EL02, JN04, JLP06, KY03a, KM01, MW09, Pro01]. **Operators** [Amo01, BO07, CGNT08, EL02, HN05, Kov08, KP05, Mac04, O'D08, PR01, Rob04, San05, Ste04]. **Optics** [AR03, BL03, CGL05, Dum03, Joc00, LP00]. **Optimal** [BX09, BCP06, BD06b, BS05, CDJ08, CC07, CP00, Fig07, Ish05, Lip01, Lor00, MP03, Ped00, Ron05, SP07]. **Optimally** [GL07]. **Optimization** [The04]. **Optimize** [HKK01]. **Options** [BX09, CC07, YYW08]. **Orbital** [LW08]. **Orbits** [CL04]. **Order** [AFM01, AK03, Amo01, AGGM05, CP07a, DFLM09, FM00, GB04, GP06, GW09, HS08, HR06, JP00, JM09, KMS07, Kei01, KN09, KS07, Li06, LY05, MJZ04, Mos05, SW09, Wil09, vdBHV01, GJT06]. **Order-Disorder** [CP07a]. **Ordering** [NOV09]. **Orders** [Yoo01]. **Orientation** [CGLL02]. **Orthogonal** [QW00, Van01, Van85]. **Orthonormal** [Don00, PS00, ZD00]. **Oscillating** [ABDG04, GV05]. **Oscillations** [CL00, CMS04, MOPMW06, Moo02]. **Oscillator** [BLM09, Joc00]. **Oscillators** [QT05]. **Oscillatory** [WX05]. **Oseen** [Deu09, LS01]. **Osher** [Ish05]. **Ostrovsky** [CMJ09, LL06]. **Ostwald** [NP00]. **Overcrowding** [BDDS06]. **Oversampling** [Joh03].

Packed [BN02]. **Packet** [DMP06]. **Packets** [Che00]. **Packings** [BLRW06]. **Pair** [GH05]. **Pairs** [LYY05]. **Pan** [AH07]. **Parabolic** [BS01, BK04, BBF06, BK00, BFK03, CCG05, CD01, CJ04, CA00, Dal07, DGP04, FS03, FS05, GJV03, GWZ09, GJT06, GK05, HR08, JP00, JM09, KK08a, KK04a, KA00, LRR06, Lor00, MG05, PP00b, Tak00, vBPW08, vdBHV01]. **Parabolic-Elliptic** [MG05]. **Parabolic-Hyperbolic** [GWZ09, KA00]. **Parallel** [Zha03a]. **Parameter** [Pan03, Pan06]. **Parameters** [BK02, FL00, Li06]. **Parametric** [Coo00]. **Parametrically** [KW01]. **Parametrization** [RTW01]. **Part** [MB08]. **Partial** [AMP05, CRTW05, DdlL00, DGG00, GG07, HKP07, KKSY02, KW01, LR09, WCD07]. **Particle** [CP00, FGQ04, NS09, Rou06]. **Particles** [CCD02]. **Partitions** [HNZ06, Rig06]. **Passage** [CCCS06]. **Past** [GH09]. **Path** [Red02]. **Path-Tracking** [Red02]. **Patlak** [KS09a]. **Pattern** [CWY09, DS09, HW03]. **Patterns** [BKL$^+$09, Lew01, Osh04, Pro02, QW09]. **PDE** [CFTV03, DE09]. **PDEs** [Bla06, DZ08, FS09, GB04, KMS07, BB05, IK01]. **Peclet** [MDvD06]. **Penalization** [SR09]. **Euler** [NT08]. **Gross** [KKSW08]. **Singular** [PV05]. **Pencil** [JLP06]. **Pendulum** [LLYZ03]. **Perfect** [ST08]. **Perforated**

[WCD07]. **Period** [BD06a]. **Periodic** [AP06, BS01, BPBW05, BD06a, Bri03, BST05, BLM09, CDD06, CDG08, Coo00, CL04, DDT04, DL00, DPR09, EM09, FG09, GH08, HS02, JT09, JZ09b, Joh09, KMS07, KM01, LLYZ03, LY05, Lou06, MOPMW06, Moo02, PN08, Pin00, QT05, Sun01, Tor04, Tov08, Tzo06, Wah06, Wal09b, Yin04]. **Periodic/Nonautonomous** [HS02]. **Periodicity** [CO05, GJS09]. **Permanence** [GH03, LRRBS09, Sch02]. **Permanent** [Bos03, EL07, JS02]. **Perpendicular** [Pan03]. **Persistence** [GZ09, HS02, Nob09, Xu04]. **Persistent** [MZ05a]. **Perturbation** [DPR09, FM00, Gom03, KS01, LHK07, MW09, MH01]. **Perturbations** [Sch00]. **Perturbed** [Bos00, DRY07, GH09, Mor03, Sti00, Tov08, Tzo06]. **Phase** [DP05, FM00, FS03, FS05, GM05, Gui07, HIN04, Hat00, Hat03, HK00a, KSS02, LS00, Lip01, MPP09, Mos05, PV05, Sch08, SZ09, Tri08, Vis09, Wan08, dPKW07]. **Phase-Field** [GM05, KSS02]. **Phase-Transition** [PV05]. **Phenomena** [DH08a, DH08b]. **Phenomenon** [BLRW06, DS09, Tzi06]. **Physical** [CGL08, CF06b]. **Physics** [BK00, Bla06, LS00]. **Phytoplankton** [DH08a, DH08b]. **Piecewise** [DP03, SZ09]. **Piercing** [PP00a]. **Piezoelectric** [MN05]. **Pitaevskii** [Mar06a, KKSW08]. **Placement** [HKK01]. **Planar** [AK06, AKS06, BCV06, HM09b, JS02, LYY05, MV05, NN09]. **Planck** [EL07, Kag01]. **Plane** [Bjo08, Coz09, EK08, Gor02, GSZ04, KTvW05, Kel06, Lin03, MNR05, MR08, Ron05, Tor04, VA03, WX05]. **Plane-Like** [Tor04]. **Planning** [BS05]. **Plasma** [BK00, LS00]. **Plasmid** [WNW07]. **Plasmid-Bearing** [WNW07]. **Plasmid-Free** [WNW07]. **Plasticity** [GL08, Mie04, NK08]. **Plate** [BGM08, Gra08, Kim05]. **Plates** [BJ09, PS09a]. **PML** [HSZ03b]. **Pockets** [GZ00]. **Poincaré** [BSB03]. **Point** [FM04, Fou06, HM09b, LM09, Pro01]. **Points** [KS01, Sti00, FKW06]. **Pointwise** [AGSS00, TT00, YZ09]. **Poisson** [Kag01, Li11, AMP05, AL06, ABR00, Alì03, BNR05, Bos03, Bos05, CH06, EL07, Hwa04, LMR08, Li09, MV07, MT07a, NT08, Zha03b]. **Pol** [BLM09]. **Polarizational** [LP00]. **Pole** [HSZ03a, HSZ03b]. **Poles** [KN00]. **Polycrystals** [BBN08]. **Polydisperse** [BBF06]. **Polygon** [KK04b]. **Polyharmonic** [BCR01]. **Polyhedral** [Han01]. **Polymer** [NS04]. **Polymeric** [HZ09, Sch09, ZZ08]. **Polynomial** [BX05, LYY07]. **Polynomials** [AL06, BG04, DP03, Dun01, PS00, QW00, Van01, Van85]. **Polytropic** [LMR08]. **Population** [CJ04, KK08a, KGB06, OW07, Wal09a]. **Populations** [MOPMW06]. **Pore** [MDvD06]. **Porous** [AS07, BDV03, FS03, FS05, GG00, MP01, Mei08, NN01, Sch05]. **Posed** [MS04]. **Posedness** [AH08, Amb03, ACFS09, CMZ08, CKS$^+$01, CKS$^+$02, El 07, GH08, HL06, LP09, LCS03, MST01, PRS08, aLW09]. **Positive** [BY04, LM08, Wal09a]. **Positivity** [PS09a, PN08]. **Posteriori** [Laf04]. **Potato** [CF01]. **Potential** [AMSW05, Car03, Coo00, HM09b, LY09, Sac04, SZ09, YZ05]. **Potentials** [AK03, GZ00, VZ09, Zwo01]. **Power** [BN08, CR06]. **Power-Law** [BN08, CR06]. **pp** [HKS07, Pla09b]. **Practical** [Wil09]. **Predator** [AM05, DD02a]. **Predator-Prey** [DD02a]. **Prescale** [DGH00]. **Prescribed** [Rig06]. **Presence** [Alm08, AK03, BF06]. **Preserving** [PS09a]. **Pressure** [BMR09, BFK03, CL03, Sch05]. **Pressureless** [Bou00, GSR05, NT08]. **Prevention** [BDDS06]. **Prey** [AM05, DD02a]. **Prey-Predator** [AM05]. **Price** [CdMGGK09]. **Pricing** [YYW08]. **Primitive** [AG01b]. **Principal** [CG00]. **Principle** [BCP06, CN01, Rei01, Ste08].

Principles [BN08, EL02, KY04, KS06b]. **Probing** [UW07]. **Problem** [Abd03, AFM01, AHT03, AGGM05, Bel03, BV08, BIY08, BCN05, BBW09, BFG04, BCV06, BV00a, BW04, Bos05, BFK03, CR06, Cas03, CF00, CD01, CF03, CCCS06, CG08, CL04, CA00, CE07, Cui08, DG09, DH08a, DH08b, FH01, FP02, FH07, Gor02, GP06, HH01, HHR09, HHR11, HM09a, Hat00, Hat03, HMS03, HMS04, HL02a, HL02b, IWY08, KK08a, KKS00, KN00, KN09, LP08, LYY05, Li05, LP02, MV07, MW09, MS04, Mik02, MM05, MR02, Mos05, NP00, Osh07, PP00a, PP04, PP03, PP00b, Piv00, PS08b, QW09, RW03, RW05, RW08, Ren06, Ryb01, Vis07, WC09, Xu03, Zag05, ZY00]. **Problems** [AS06, BT07, BBF06, BJ09, Bri03, BV02, BST05, CKK06, CM02, CP07b, CR03, CEGMM09, DK08, Du00, DZ08, Ebm00, FS05, GG00, Gui07, GJS09, HT09, HSZ03a, HSZ03b, IK01, IL05, JT09, LK01, Lor00, Mar06b, Mor03, MR08, NS04, PS09b, Pin00, PRS08, RW00a, SR09, Tra06]. **Procedure** [Ort06]. **Procesi** [WY08]. **Process** [DFG02, GK08, IM01]. **Processes** [NRJ07]. **Processing** [GB04]. **Profile** [DH08b, WXM06]. **Profiles** [FM01, MP01, MZ05b]. **Projections** [BX05]. **Propagation** [Grü03, KL08, LLLY04, Mei08]. **Properties** [AG02, DN09, DGH00, GZ09, Li06, PN08, Var08]. **Property** [BPR00b, PS09a]. **Pseudodifferential** [Sch00]. **Pseudoparticle** [CP00]. **Pulse** [CMJ09, DKP07, MJZ04, RL06]. **Pulses** [AR03, BL03, CL09]. **Purely** [LR09]. **Put** [CC07]. **Pyramid** [DY00]. **Pyramidal** [Tan07].

Quadratic [SZ09]. **Quadrilateral** [LS02]. **Qualitative** [Wan00]. **Quantization** [JWW07]. **Quantum** [JP00, JM09]. **Quasi** [AH08, Bab08, BS01, BW08, BK04, BBF06, BST05, BFK03, Cha06, CGZ09, CDY04, DH08a, DH08b, DGG00, FS03, FS05, Gia05, GL08, Joc02, JLM01, Li08, LY05, LP02, MW09, MO09, PP00b, Pro02, Ren00, Ria04, Rob04, SS03b, WXM06, Wu05, Yoc07, vBPW08]. **Quasi-Convex** [DGG00, Bab08]. **Quasi-Dual** [CDY04]. **Quasi-Geostrophic** [AH08, SS03b, Wu05, Cha06]. **Quasi-invariant** [BW08]. **Quasi-Linear** [BST05, BFK03, JLM01, Li08, LP02, MW09, PP00b, Ren00, Yoc07, vBPW08, BS01, BK04, BBF06, DH08a, DH08b, FS03, FS05, Ria04, Rob04]. **Quasi-neutral** [WXM06]. **Quasi-Periodic** [LY05]. **Quasi-Static** [Gia05, MO09, GL08]. **Quasi-Stationary** [Joc02]. **Quasi-Steady** [Pro02]. **Quasiconvex** [CDD06]. **Quasiconvexity** [Ped00]. **Quasilinear** [HR08, MS06, PS06]. **Quasiminimal** [Rig06]. **Quintic** [Tzi06].

Racah [AL06]. **Radial** [BCR01, BGL07, DRY07, GG00, LYY07, NW04, Yoo01]. **Radially** [Nar08]. **Radiation** [KS00]. **Radiosity** [Han01]. **Radius** [AHM09, FS01]. **Radon** [AK06, BX05]. **Raising** [Kei01]. **Raman** [WZ05]. **Random** [BG04, BBN08, BLRW06, Dal09, DO09]. **Range** [AK06, BGL07, CO05, Nak01]. **Rapid** [CL00]. **Rapidly** [CT08, Dal09]. **Rarefaction** [JNS06, KMX08, Lew05a, Lew05b, Nak03, NYZ04]. **Rarefactions** [Bia01]. **Ratchets** [BDK09]. **Rate** [Bou00, BMR09, God09, GK08, Hat00, Ish05, KS09a, MP03, Mas01, NN09, Sun07, TTX03]. **Rates** [CNO06, DP05, JM08, Lay07, ORS06]. **Reachable** [BV08]. **Reaction** [AK00, Bos00, CCK07, CQ07, FGHS07, FC06, JZ09b, KS00, NRJ07, Osh04, SZ00, WW02, WZ05, YCL01]. **Reaction-Diffusion** [AK00, Bos00, CCK07, FGHS07, JZ09b, NRJ07, Osh04, SZ00, WW02, YCL01]. **Reaction-Hyperbolic** [FC06]. **Reactive** [MDvD06]. **Reactor** [The04]. **Real** [Auc09].

Realization [Bra05]. **Receptor** [MCP08]. **Receptor-Based** [MCP08]. **Reconstruction** [BX05, Mac04, Pal09, Ron05, Sun07]. **Recovery** [AIM03]. **Rectangular** [FMP09]. **Reduction** [Bab08, BGM08, Rei01]. **Refinable** [Han08, Pro00]. **Refined** [CKS+02, KS09a]. **Refinement** [JJS00]. **Regimes** [Bos03]. **Regular** [CM01, Kov08, Kry03]. **Regularity** [Abd03, BV00b, CM02, Cha06, CRTW05, DGG00, Fig07, GH08, Hwa04, Kan04, KK04b, Le05, LW09, MN05, NK08, Oga03, SZ07, SS09b, Sug09, Mus05]. **Regularization** [All08, Cré03, FMP05, HK00a, LS03]. **Regularizations** [RW00b]. **Regularized** [CMJ09, DKP07]. **Reinforced** [BD09, Gra09]. **Related** [ABV06, CP07b, CM01, CR03, DGP04, Dun01, Hat03, IL05, KK02, KK05, Kur04, LP08, LYY05, Mar06b, MST01, Mos05]. **Relation** [LLW03]. **Relations** [Gra09, HL00]. **Relaxation** [ABR00, CMM06, Li08, MZ05b, MM05, TT00, Xu09]. **Relaxation-Time** [Xu09]. **Remark** [Zwo01]. **Remarks** [HK06, MST07]. **Renormalization** [BC06b, Pro02]. **Renormalized** [BK04, CL05, MG05]. **Representation** [AC04, Bab08, BCQ01, Can01, GL07, ZD00]. **Reproducing** [Auc09]. **Repulsive** [Car03, HM09b]. **Residual** [IWY08, NW03]. **Resistance** [CLR02, PP00a, Pla09b]. **Resolution** [MN00]. **Resolvent** [KN00]. **Resonance** [Coo00, GZ00, KKSY02, dPKW07]. **Resonant** [Bou08, HY03, MPS05, MPS06]. **Respect** [BF01, KK07, Kri04, Lor00, Sch00]. **Response** [Pot07]. **Restoration** [CRTW05, DFLM09]. **Result** [AC04, BV00b, CKS+02, GH05, Grü03, Hor08, Ift02, Mas01]. **Results** [ACFS09, BCLM08, DGP04, EM09, MN05, PS09b, Wes02]. **Retarded** [LWS05]. **Reverse** [Dun01]. **Reversible** [BPBW05, Xu04]. **Reynolds** [Wil09]. **Ridgelets** [Can01, Don00]. **Riemann** [HL02a, HL02b, Pin00]. **Riemannian** [CMS04, KY03a]. **Right** [BG08, II01]. **Right-Angle** [II01]. **Right-Hand** [BG08]. **Rigorous** [CMM06, MDvD06, ORS06, PW08]. **Rings** [Kat05]. **Ripening** [NP00]. **Rise** [BBN08]. **Risk** [CCCS06]. **Rivers** [DE09]. **Road** [CGP05]. **Robin** [DK08]. **Robust** [GH03]. **Rod** [GZ09, HM09b, LL05, Vui03, CHK05]. **Rodlike** [ZZ08]. **Role** [TW09]. **Roll** [Nob09]. **Rotating** [AB06, CT08, Dal09, Lou06]. **Rough** [Are01, CWM05, MV07, Pla09a]. **Rupture** [CD08].

S [Du00]. **S-Shaped** [Du00]. **Safronov** [BL07, LLW03]. **Saint** [Nob09]. **Samples** [JS02]. **Sampling** [BG04, Mac04, Sun07]. **Satisfying** [BPBW05, MW09, MV05]. **Saturated** [Gor02]. **Saxton** [BC05, Len08, Yin04]. **SBV** [Bab08]. **Scalar** [CM02, IV04, KL02, LZ03, LTT03, MP03, NT08, Pan09, Roh05, Zag05]. **Scale** [BF01, BCD05, MT07b, Zui00]. **Scaling** [CM06, CGL04, FGQ04, GR00, MP05]. **Scattered** [NW02, NW04]. **Scattered-Data** [NW04]. **Scattering** [AN00, AIM03, AKS06, Are01, BV08, BBW09, CW00, CWM05, CWM08, HSZ03a, HSZ03b, KS05a, LW05, NS07, O'D08, Pla09a, Ryb01]. **Schaeffer** [Nik01]. **Schauder** [Lor00]. **Scheme** [II01]. **Schemes** [DLY07, KS09c, Zho01]. **Scholes** [Cré03]. **Schrödinger** [AMP05, AMSW05, AP06, Ban03, BNR05, BO07, Car03, CW00, CKS+01, CKS+02, CT09, DW05, DPR09, GH08, HNS08, HK06, KM01, KPS09, KKSW08, Kov08, Kur04, LM08, LY05, LP02, LW08, Mar08, Mar06a, MJZ04, Nak01, O'D08, Rou06, Sac04, SS09a,

Spi03, Sze05, Tzi06, VZ09, VZ07, Zha03b]. **Schrödinger-Type** [O'D08]. **Schrödinger/ Gross** [KKSW08]. **Screw** [Pon07]. **Second** [AFM01, FM00, HR06, KMS07, MH06, Rob04, SS03a]. **Second-Gradient** [MH06]. **Second-Order** [HR06]. **Section** [BV00b]. **Sector** [GGH05]. **Seeding** [BR06]. **Segel** [BDDS06, KS09a, Sug09]. **Segregation** [Ble08]. **Seismic** [Mei08]. **Sekerka** [Rög05]. **Selection** [LHK07, Ort06]. **Selective** [CRTW05]. **Self** [BL07, CW00, Dum03, EL02, GGH05, HM09b, LS03, SZ05, Zho01]. **Self-Adjoint** [EL02]. **Self-Focusing** [Dum03, SZ05]. **Self-Potential** [HM09b]. **Self-Similar** [BL07, CW00, LS03, Zho01, GGH05]. **Selfdual** [MNR05]. **Sel'kov** [Lie05]. **Semiclassical** [LW08, Zha03b]. **Semiconductor** [MT07a]. **Semiconductors** [ABR00, WXM06, Xu09]. **Semicontinuity** [Bab08]. **Semidiscrete** [BGHR03]. **Semiflow** [Kri04]. **Semigeostrophic** [CF06b, Loe06]. **Semigroup** [KL08]. **Semilinear** [AGGM05, CFTV03, Du00, DMPD09, FHW02, MR02]. **Semirelativistic** [CO06]. **Semistrong** [DKP07]. **Semisubmerged** [PP04]. **Sensitivity** [PRS08]. **Separate** [Zha03a]. **Separated** [NRJ07]. **Separation** [HIN04]. **Sequences** [Mor03, dVGH03]. **Sequential** [FN05, Pel01]. **Set** [CD08, FN05, Pan09, Vui03]. **Sets** [AG02, BV08, CR06, Gom03, IM04, Pla09a]. **Setting** [Mac04]. **Shabat** [KS03a]. **Shah** [CMS04]. **Shallow** [CMZ08, CT08]. **Shallow-Water** [CT08]. **Shape** [CM98, CM00, MPP09, Ste05, Yoc07]. **Shape-Memory** [MPP09]. **Shaped** [Du00, MS06]. **Shapes** [Tan07]. **Sharp** [BL06, BY04, CQ07, DO09, MM05, Oga03]. **Sharp-Interface** [DO09]. **Shaw** [CR06, EM09, GP05, GP06]. **Shaw-Type** [GP05]. **Shear** [BMR09, FMS03, FS00, Gor02]. **Shear-Dependent** [FMS03]. **Shear-Rate** [BMR09]. **Shearlet** [KS09c]. **Shearlets** [GL07]. **Sheets** [Amb03, CZZ07]. **Shelf** [JLP06]. **Shell** [ABV06, BL01, CCS07]. **Shell-Membrane** [ABV06]. **Shock** [BGSZ01, BGHR03, CWY09, GH09, HMS04, LLLY04, Lew01, LK01, MZ05b, SS08, Tra06]. **Shocks** [BV05, Bia01, CKK06, CL03, Cou02, CS06, HL00, LY09, Rou03, SP07, Yua06]. **Short** [AR03, BL03, CL09, CMJ09, HS06, Nak01]. **Short-Range** [Nak01]. **Shrinking** [Váz03]. **SIAM** [HKS07, Pla09b]. **Side** [BG08]. **Sign** [WXM06]. **Sign-Changing** [WXM06]. **Signal** [BNG04]. **Signals** [Sun07]. **Signorini** [Ren06]. **Similar** [BL07, CW00, LS03, Zho01, GGH05]. **Simple** [Piv00]. **Simulated** [CHK08]. **Simulation** [DE06]. **Sine** [Kat05]. **Sine-Gordon** [Kat05]. **Single** [CLR02, Pla09b, QXM08]. **Single-Impact** [CLR02, Pla09b]. **Single-Wave-Form** [QXM08]. **Singular** [Ban03, BDR09, DE09, Esp05, FGHS07, FM00, HK00a, KS01, LHK07, MW09, MH01, Osh07, PS06, Ria04, SR09, VZ09, ZY00]. **Singularities** [CF01, CFdlL04, Don00, Red02, Ren00]. **Singularly** [Bos00, DRY07, Mor03, Sti00, Tov08, Tzo06]. **Sixth** [JM09]. **Sixth-Order** [JM09]. **Size** [Gia05]. **SLEP** [NS04]. **Slip** [BMR09]. **Slippage** [Grü03]. **Slyozov** [Lau02, NP00]. **Small** [AK03, AIM03, Bou08, Fil07, HK00b, KPS09, KS09b, Pan06]. **Smoluchowski** [LLW03, MP05]. **Smooth** [ABR00, Alì03, BC06b, CT08, O'D08, Pro00]. **Smoothing** [CRTW05, KS07, Sze05]. **Smoothness** [FHW02]. **Snakes** [BKL$^+$09]. **Sobolev** [Bra05, Can01, KK04a, Oga03, Yoo01]. **Solenoidal** [LW09]. **Solid** [Bla06, BMR09, GV00, HMS03, HMS04]. **Solidification** [BLRW06]. **Solitary**

[BD02, CGNT08, CMJ09, GW07, LL06, Miz01, Miz03, SW08]. **Solitons** [Kur04, Mar06b, MC01, SS09a]. **Solution** [ABDG04, Bos05, Bou00, Cas03, Cui08, Han01, LLYZ03, Mal00, MB08, MT09, Pro00, WY08]. **Solutions** [AK00, AS06, ABR00, Alì03, AS07, AGSS00, ANR09, AG02, BL07, BS00a, BS01, BK05, BPBW05, BCN05, BNP06, BCN02, BK04, BR06, Bia01, BD06a, BW04, BC05, BD02, BLM09, CFTV03, CR06, CW00, CDJ08, CdMGGK09, CM01, CD01, CL03, CQW03, CWY09, CT08, CJT09, CHK05, CEGMM09, CDM08, CF06b, DP09, DRY07, DDGM07, DS06, DDT04, DLS05, DL00, DZ03, DZ08, Esp05, ET09, FN05, FM09, GIK05, GW06, GIK08, GV05, Gev08, GGH05, GG00, Gom03, Gra08, GB04, GJS09, Hat03, HZ09, HKP07, Hof06, HK00b, HW02, HKS05, HKS07, IL05, JJS00, Joc00, Joc02, Joh09, JP00, JM08, JLM01, KK02, KK05, KMX08, KLVZ09, KK04b, Le05, LZ05, LP08, Lew05a, LY05, Lil07, LHK07, LS03, Lip01, MT03, MV08, Mik09, Miz01, MJZ04]. **Solutions** [MG05, Moo02, Nak03, Nak01, NN01, Pan09, PN08, PP00b, Per06, Pis04, QXM08, RW00a, RW03, RW05, RW08, Rie03, Rög05, SW09, ST08, SZ07, SP07, SS09b, Sug09, Tak00, Tov08, Váz03, WW07, Wal09a, Wan00, WLW09, WW02, Wu05, WC09, YCL01, Yin04, vDPP07, Mus05]. **Solvability** [Abd03, Bla06, BJ09, KS07, PP00a, PP04]. **Solvable** [MC01]. **Solvation** [Li09, Li11]. **Solvent** [Li09, Li11]. **Solving** [HSZ03a, HSZ03b]. **Some** [ACFS09, BB05, CEGMM09, CA00, DGP04, DN09, DZ03, Lin03, Osh07, ST08, Sch00, Var08, Wes02, Du00]. **Source** [BT07, Ha01, HY03, KY03b, TW09]. **Sources** [Fou06, GMS09]. **Space** [ANR09, BS01, BGL07, CRTW05, CF06b, DMPD09, FM01, HIN04, Kan04, KK04a, Nak03, NN09, Nis02, RTW01, Yoo01]. **Space-Time** [BS01]. **Spaces** [Auc06, Auc09, Bra05, FHW02, Han08, HNZ06, Kry01, Kyr04, MR02, Wu05]. **Sparse** [CDD03, GL07]. **Spatial** [CL04, Deu09, FKK09, FLM01, GW07, JZ09b, LR09, PP00b]. **Spatially** [Wal09a]. **Spatially-Structured** [Wal09a]. **SPDEs** [Kry09]. **Special** [AG01a, BD06b]. **Species** [HLMP03]. **Spectra** [CGNT08, RW03]. **Spectral** [Auc06, BC06a, BBW09, CGL08, HS08, LL05, Yoo01]. **Spectrum** [DN09, VA03]. **Spectrums** [BL03]. **Speed** [CQ07, Grü03]. **Speeds** [HZ08, ST01]. **Speer** [JM08]. **Spheres** [BG08, BGL07, DW05, FPR04, NW02, NPW06]. **Spherical** [RW08, UW07]. **Spherically** [GJX08, WZF08]. **Spike** [CK01b]. **Spline** [AS00, GK00, HNZ06]. **Splines** [BCR01, KS03b]. **Splitting** [Che00, GK05]. **Splitting-up** [GK05]. **Spohn** [JM08]. **Spread** [FLM01]. **Spreading** [GW06, Grü03, HZ08]. **Square** [BD06b]. **Squirt** [CFdlL04]. **Stability** [Alm08, AG02, BS08, BGHR03, BK02, BFV08, Bia01, Bou08, BLM09, CCD02, CD01, CLGZ06, CZZ07, Cou02, CT09, Cui08, DG09, DGG08, DGH00, DKP07, EM09, FN05, GR00, GIK05, GIK08, Gom03, Ha01, HY03, HH01, HM09b, Joh09, KPS09, KA00, LL05, LWS05, LL06, Lew01, Lew05b, Li08, LK01, LS03, LW08, LTT03, Mar06b, MZ05b, Nis02, NYZ04, NS04, PN08, Pro02, Pro01, PS08b, QXM08, QW09, RW05, Ron05, Sch00, SW08, SZ00, STZ02, Tsa07, WW02, WC09, YZ09]. **Stable** [AD05, Cou02, DDGM07, KP07, LRRBS09, MJZ04, Osh04, Sin06]. **Stage** [JZ09b, KGB06]. **Stage-Structured** [KGB06]. **Standard** [Lóp00]. **Standing** [Bou08, CT09, OT07]. **Star** [AS00, MS06]. **Star-Shaped** [MS06]. **Star-Supported** [AS00]. **Stars** [DGG08]. **State** [Alm08, AK03, Bla06, God09, HKM08, LMR08, LP08, Lie05, LL00, aLW09]. **States** [CL03, DW05, FG09, KPS09, LW05, LM08, LW08, MZ05a, Rou06]. **Static**

[CFTV03, Gia05, MO09, GL08]. **Stationary** [CP07a, Cui08, Dal09, GIK05, GIK08, GG07, Joc02, NN09, Osh04, Tak00, WC09]. **Steady** [AK03, CZZ07, FMS03, LW05, Lie05, LY09, MZ05a, Pro02, Wah06, Wal09b, Yua06, aLW09]. **Steady-State** [AK03, Lie05]. **Stefan** [MR08, PS08b, Vis07]. **Stefan-Type** [MR08, Vis07]. **Stems** [CKK06]. **Step** [GZ00]. **Stewartson** [VA03]. **Sticky** [NS09]. **Stieltjes** [FS09]. **Stiff** [KS06a]. **Stochastic** [BDR09, BDK09, CCK07, DMPD09, IM04, Kim00, Kim02, Kim05, LP08, LR09, Mik02, MR04, Mik09, SS09a, WCD07, Zha08]. **Stokes** [FN05, Kim13, AGSS00, ANR09, BDK09, Bra05, BKL04, CCS07, FGM05, FH07, FM01, HZ03, Hof06, Ift02, JNS06, JZ09a, Kel06, Kim06, Kim09, KK04b, LW09, LXY00, MV08, Mik02, MR04, Mik09, NYZ04, Per06, PRS08, QW09, SZ07, WX05, WZF08]. **Stokes-Like** [FGM05]. **Stokesian** [EM09]. **Stolz** [DE06]. **Stone** [IM01]. **Stopping** [GK00]. **Stored** [Pon07]. **Strain** [CG00, GL08]. **Strains** [BBN08, Mie04]. **Stratified** [Wal09b]. **Stress** [CM02, CDY04, Dal09, IWY08, MB08, NW03]. **Stress-Enhanced** [MB08]. **Stretching** [ET09]. **Strichartz** [Ban03]. **Strictly** [HL00]. **String** [BB08]. **Strong** [ANR09, CJ04, GSR05, Lew05a, Lew05b, MV08, Mik09, NYZ04, OT07, PS00, Rou03]. **Strongly** [AMSW05, BFK03]. **Structure** [HNZ06, HT09, JZ09b, LMR08, Pin00, Yin04]. **Structured** [KGB06, Wal09a]. **Structures** [AKS06, BF01]. **Study** [RW00b, Vui03]. **Sturm** [BBW09, Piv00]. **Subcritical** [PP04]. **Subdivision** [DLY07, KS09c, Pro01, Zho01, dVGH03]. **Subject** [HM09b]. **Successor** [QT05]. **Sufficient** [Pis04, SZ07]. **Suns** [DGG08]. **Super** [FM04]. **Super-Brownian** [FM04]. **Superconducting** [AC07, DD02b, Pan03]. **Superconductivity** [AH07, BCM00, LL03, SS03a]. **Superconductors** [Alm08, BK05, KS09b, LL00]. **Supercritical** [DF06]. **Superlinear** [AC04]. **Supersonic** [CZZ07, GH09, Mar08]. **Supply** [HKP07]. **Support** [HS06, KY03b, KS05a]. **Supported** [AS00, DGH00, HS08, NW02]. **Supremal** [BNG04]. **Surface** [AH07, Amb03, CS07, Dal09, GIK05, GIK08, GP05, GP06, KL08, PP00a, PS08b, Sin06]. **Surface-Piercing** [PP00a]. **Surfaces** [Are01, CWM05, FGHS07, KP07, Nar08, O'D08, Tor04]. **Surfactant** [GW06]. **Suspension** [Din03, Moo02]. **Suspensions** [BBP05, BBF06]. **Switch** [BK02]. **Switches** [GJS09]. **Symbols** [KP05]. **Symmetric** [CF06a, GJX08, HS08, Kan04, Lóp00, Nar08, PP00a, SZ07, WZF08]. **Symmetrical** [Tov08]. **Symmetrized** [ZD00]. **Symmetrizers** [Tra06]. **Symmetry** [DG09, EK08, ET09, FS00, GG00, JZ09a, KKSW08]. **Symmetry-Breaking** [KKSW08]. **Synchronism** [BS08]. **Synchronization** [CCK07, LAJ08]. **System** [AMP05, ACFS09, ANR09, BK05, BK00, Bla06, Bos03, CCD02, CCK07, CH06, CK01b, CF03, CLGZ06, CWY09, CG08, DP09, DRY07, DLS05, Din03, DE00, El 07, FN05, FGHS07, FGM05, FS03, FS05, GJV03, GW06, Hat03, Hwa04, Isa01, IWY08, Joc02, KK02, KK05, Kim00, KK04b, LM09, LMR08, LS03, Loe06, MP01, Mar06a, MT07a, Mas01, MG05, NW03, NS09, NN01, OT07, STZ02, TW09, Tsa07, UW07, WZ05, YCL01, Yoc07, Yua06]. **Systems** [AG02, BNR05, BS08, BK02, BBF06, Bia01, BSB03, CKK06, CQ07, DG00, DL00, DIN04, DS09, EL07, FGQ04, FL00, Gev08, Ha01, HY03, HKM08, HL00, HS02, HR08, HK00b, Jen00, JP00, JM09, KS02a, KS03a, Laf04, Le05, Lew05a, Li08, LM08, Lim02, MZ05a, MZ05b, MN05, MVNO08, NK08, NT08, Osh04, Osh07, Pro02, Ren00, Rou03, ST01, Sle08, Sug09, VA03, Wan00, WW02, Xu04, vBPW08].

Table [FG09]. **Tails** [vBPW08]. **Tallest** [CM98, CM00]. **Tangency** [HP09]. **Tangential** [KK08b]. **Tapered** [Vui03]. **TE** [SZ05]. **TE-Modes** [SZ05]. **Technique** [MNR05]. **Techniques** [KS02a, MCP08]. **Telecommunication** [DMP06]. **Temperature** [BMR09]. **Templates** [TY05]. **Temple** [AG02]. **Tension** [Amb03, PS08b]. **Term** [KY03b, Tzo06, ZY00]. **Terms** [AK03, GR03, Roh05]. **Test** [Abd03, Pot07]. **Their** [BFP08, KK08b, Lou06, PP00b, RW05, Tra06]. **Theorem** [BB05, Sug09, ZS02]. **Theorems** [KP07, MT03]. **Theories** [LZ03]. **Theory** [All08, BBW09, BP07, CW00, CMM06, DdlL00, Du00, El 07, Gom03, Gra09, HM09b, HSZ03a, Hur06, KK04a, KS01, MH01, NP00, Váz03]. **Thermal** [Xu03]. **Thermally** [MPP09]. **Thermistor** [Xu03]. **Thermocontrol** [GJS09]. **Thermoelasticity** [Isa01, Yoc07]. **Thermomechanical** [Ste05]. **Thermoviscoplasticity** [KSS02]. **Thin** [AKS06, BL06, BF06, BS00b, BF01, CCK07, CM06, CD08, DD02b, FMP09, GW06, Hor08]. **Thin-Walled** [FMP09]. **Third** [Amo01, GP06, KS07]. **Third-Order** [GP06]. **Three** [CN00, ET09, FS03, FS05, HT09, Kan04, RW03]. **Three-Dimensional** [ET09, HT09, RW03]. **Three-Phase** [FS03, FS05]. **Threshold** [WW02]. **Thresholds** [LT01]. **Tight** [NPW06]. **Tikhonov** [Cré03]. **Tilings** [Zho01]. **Time** [BS00a, BS01, BK00, BD06a, BDK09, Ble08, CGLL02, CWM08, CQW03, CT08, CR05, Coo00, DS06, Deu09, DS05, DS09, GWZ09, Hat03, HSZ03a, HSZ03b, Joc00, Kag01, Kri04, KS05b, Lim02, Lor00, LAJ08, MS06, Miz01, Nar08, NK08, Sac04, Xu09, YZ09, YZ05, Zui00, vBPW08, dMKST09]. **Time-** [Kri04]. **Time-Dependent** [Ble08, Deu09, GWZ09, Sac04]. **Time-Frequency** [KS05b]. **Time-Harmonic** [CWM08, HSZ03a, HSZ03b]. **Time-Incremental** [NK08]. **Time-Periodic** [Coo00]. **Time-Scale** [Zui00]. **Time-Varying** [LAJ08]. **Times** [GK00]. **Tissues** [WC09]. **Tomography** [Brü01, HHR09, HHR11, KKSY02, MN00]. **Tori** [BCV06, Xu04]. **Torsional** [Moo02]. **Torus** [CL00, MNR05]. **Total** [All08, CR03, Lau02]. **Touching** [BV00b]. **Trace** [Auc06, Ryb01]. **Tracing** [SP07]. **Tracking** [Laf04, Red02]. **Traffic** [BR03, CGP05, HR06]. **Trajectories** [LRRBS09]. **Trajectory** [Kry03]. **Transform** [AK06, Cla00, PN08, RL06, Pal09]. **Transformation** [BBN08, JN04]. **Transformations** [MPP09]. **Transforms** [DY00]. **Transition** [ABV06, CP07a, Hat00, Hat03, LZ03, Lim02, PV05, Tri08, dPKW07]. **Transitions** [DP05, FM00, HK00a, Mos05, SZ09, Vis09]. **Transmission** [NRJ07, PS08a]. **Transonic** [GH09, LY09, Yua06]. **Transport** [ACFS09, BT07, BC06b, BG08, CDJ08, CP00, Fig07, GP04, HLTT08, HKM08, HKS05, HKS07, aLW09]. **Trapping** [BDV03, Sch08]. **Traveling** [BCC03, BS00b, CFG06, CCP07, CN00, Din03, FC06, GB04, HZ08, Joh09, Li08, Mar08, Nis02, OW07, SW09, SZ00, Tan07, Tsa07, Var08, BC06a]. **Travelling** [CQ07, GR03, Kat05, Mar06a, PN08, vdBHV01]. **Travelling-Wave** [PN08]. **Travelling-Waves** [Mar06a]. **Trees** [Kov08]. **Trick** [Che00]. **Trigonometric** [BG04]. **Triple** [CWY09, EL02]. **Triple-Shock** [CWY09]. **Truncated** [KN09]. **Truncation** [FMS03]. **Tumor** [BFG04, CF03, Cui08, FH07]. **Tumors** [CE07, WC09]. **Turbulence** [Lay07]. **Turbulent** [DE06, MR04]. **Twist** [LLYZ03]. **Two** [Bel03, BIY08, BF01, BKL04, BCD05, CCK07, Cas03, CWY09, CY04, CN00, FLP05, Fil07, Fou06, GZ00, HP09, KS09a,

Kim02, KS01, LS00, LZ05, LP09, Lip01, MT03, MT07b, Pin00, Pla09a, RW00a, Sch08, Sun01, Yua06, Zha03a].
Two-Dimensional [Bel03, BKL04, Cas03, CWY09, CY04, FLP05, Fil07, HP09, KS09a, Kim02, LZ05, LP09, MT03, Pin00, Pla09a, Yua06].
Two-Fluid [Sun01]. **Two-Layer** [CCK07].
Two-Phase [LS00, Lip01, Sch08].
Two-Scale [BF01, BCD05, MT07b].
Two-Step [GZ00]. **Type** [CN01, CO06, El 07, GP06, GJS09, HNS08, KP08, MR02, MST07, MT08, MR08, Nik01, O'D08, Oga03, Vis07, BB05, GP05].

Unbounded [CWM05, GMS09, JN04, Li06].
Uncertainty [BCP06]. **Undercompressive** [BS00b]. **Underdamped** [QXM08].
Undulating [Lou06]. **Unfolding** [CDD06, CDG08, Sti00]. **Uniform** [Dun01, HS02, JWW07, MP05, QW00, San05].
Uniformly [MZ05a]. **Unilateral** [BFG04, PS09b]. **Unique** [Bla06, NW03].
Uniqueness [AG02, Are01, BCLM08, BR06, BW04, Bos05, BC06b, CWM05, CdMGGK09, CO05, CFG06, CDM08, DK08, ET09, Fig07, GV00, Hof06, Ift02, Isa01, KY03b, KP07, LM09, LM08, LY09, MV08, MN05, Ren06, Mus05].
Univariate [DLY07]. **Universal** [DP05].
Unreachable [BV08]. **unstable** [EGW06].
Unsteady [BMR09, CGZ09, Gra08].
Unstirred [WNW07]. **Up-to-the** [BL01].
Upper [ORS06]. **Upscaling** [MDvD06].
Urban [BS05]. **Using** [CDD03, Cré03, GL07, MCP08, RW00b].

Vacuum [CL03, LXY00]. **Validity** [Fra07].
Value [Abd03, Bos05, Ebm00, FS05, Lee09, LP02, MS04, NP00, PP00b, PRS08]. **Valued** [MT03]. **Values** [FPR04]. **Vanishing** [AHM09, CL03, Coz09, FS00, Ift02, JNS06, MP03, MO09]. **Vapor** [Tri08]. **Variable** [CGLL02, CLGZ06, KK07, Mal00, Yua06].
Variable-Area [Yua06]. **Variables** [GR00].
Variation [All08, BV02, CR03, GM01, ZS02].
Variational [AFM01, BN08, CM02, CWM05, EL02, FN05, IK01, IL05, KS06b, Li06, MT07b, Pel01, RW00a, Ste08, YYW08].
Varying [DG00, LAJ08]. **Vector** [Lee09, LW09, Sch02]. **Velocity** [BG08, Coz09, Nis02, Wes02, FKW06].
Venant [Nob09]. **Version** [BL01, Loe06].
Vertical [Ift02]. **Vertices** [Han01]. **Very** [ANR09, BCN02]. **via** [CK01a, CDD06, Gra09, HK00a, KY03a, KS02a, LZ05, Lil07, Mei08, MS06, MT07b, MO09, NT08, QT05].
Vibrations [BB08]. **Virus** [FLM01].
Viscoelastic [CM01, Lim02, MT08].
Viscoelastodynamic [PS09b].
Viscoplasticity [Nes07]. **Viscosity** [AS06, BBP05, CR06, Coz09, FMS03, FS00, Gom03, GJX08, HW02, Ift02, JNS06, JLM01, LK01, LS01, MP03, Pis04, WX05, WZF08].
Viscous [BGSZ01, Bjo08, Bou00, CMZ08, DS05, FL00, GW06, Gra08, HW09, HMS03, HMS04, LLLY04, LK01, Nak03, NN09, PLN02, Rou03, SS08, SP07, TTX03]. **Vision** [AFM01]. **Visual** [CMS04]. **Vlasov** [Bos03, Bos05, CH06, Hwa04, Kag01, LMR08].
VMO [KK07, Kry09]. **Volatility** [Cré03].
Voltage [AK03]. **Volterra** [DGG08, LRRBS09, MT09]. **Volume** [Lau02, LW05]. **Vortex** [AB06, Amb03, CZZ07, DZ03, Fil07, LM09, LYY05, LL00, Spi03]. **Vortex-Wave** [LM09]. **Vortices** [AC07, LL03, MNR05].
Vorticity [BR06, Coz09, ET09, GW07, Hur06, LM09, Var08, Wah06]. **Vries** [CCP07, DDT04, Joh09, MC01, Miz01]. **vs** [BDDS06].

Wagner [Lau02, NP00]. **Waiting** [DS09].
Walled [FMP09]. **Walls** [CZZ07].
Wasserstein [CDJ08, DS08, NS09, OW05].
Water [BST05, CMZ08, CT08, CN00, GW07,

Hur06, KS06b, Var08, Wal09b, Wri05]. **Wave** [Are01, BD06a, BD02, CKK06, CWM08, CQ07, CHK05, CCP07, Coo00, GH09, GB04, GZ09, HMS04, Joh09, KK08b, LM09, LL00, LL03, Mei08, MS06, Moo02, PP00a, PN08, QXM08, QW09, SW09, ST01, Tsa07, VZ09, YZ05, Zha08]. **Wave-Number-Explicit** [CWM08]. **Wavefronts** [OW07]. **Waveguide** [JLP06]. **Wavelet** [Che00, Cla00, GK00, Joh03, RTW01, Ste04, Zui00]. **Wavelets** [HS06, HS08, dVGH03]. **Waves** [AKS06, BCC03, BGSZ01, BGHR03, BS00b, Bou08, BY04, BST05, CGNT08, CFG06, CMJ09, CN00, CT09, Din03, FC06, Gor02, GW07, HZ08, HW03, Hur06, JNS06, JLP06, KMX08, Kat05, KT01, KS06b, LLLY04, LL06, Lew01, Lew05b, Li08, LK01, Lou06, Mar08, Mar06a, MC01, Miz01, Miz03, Nak03, NN09, Nis02, NYZ04, Nob09, OT07, SS08, SW08, SZ00, Sun01, Tra06, UW07, Var08, Wah06, Wal09b, Wri05, vdBHV01, BC06a]. **Weak** [AS07, ANR09, BCN02, BR06, Cas03, CHK05, Cou02, CS06, DZ03, ET09, FN05, GP04, Gra08, Grü03, Hof06, JLM01, MB08, Miz03, Pan09, Per06, Rög05, SR09]. **Weaker** [Xu04]. **Weakly** [Kov08, MT08, Sch02, SZ04, WY08]. **Wear** [KS02b]. **Wearing** [IM01]. **Weight** [QW00]. **Weighted** [CR03, Han08, Van85, Van01]. **Weights** [Kry01]. **Well** [AH08, Amb03, ACFS09, CMZ08, CKS$^+$01, CKS$^+$02, El 07, GH08, HKK01, HL06, LP09, LCS03, MS04, PRS08, Sac04, aLW09]. **Well-Posed** [MS04]. **Well-Posedness** [AH08, Amb03, ACFS09, CMZ08, CKS$^+$01, CKS$^+$02, El 07, GH08, HL06, LP09, LCS03, PRS08, aLW09]. **Wells** [Zha03a]. **White** [DDT04, JWW07]. **Whitham** [KPT09]. **Whole** [FM01]. **Wigner** [Mac04, Zha03b]. **Willmore** [DG09]. **Wilson** [KS05b]. **Windows** [BD06b]. **Without** [AS06, FL00, Joc05, STZ02]. **Wound** [CF00]. **Wriggled** [RW05]. **X.** [AH07].

Young [LHK07, CP07a, Ped04, Ped06, Rie03, Zha03a]. **Young-Measure** [LHK07].

Zabolotskaya [KP08]. **Zakharov** [KS03a, LP09, Mas01, OT07]. **Zeldovich** [LZ03]. **Zero** [BPBW05, KL02, LS01, Van01, WX05, Van85]. **Zero-Hamiltonian** [BPBW05]. **Zero-Viscosity** [WX05].

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