A Bibliography of Publications by, and about, Garrett Birkhoff

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Abstract

This bibliography records publications of Garrett Birkhoff.

Title word cross-reference

11 [NBBKV10]. 14 [YNBV11]. **$17.50** [Bir77c]. 2 [KdC05]. 3 [NBNTGV11, YNBV11]. 4 [NB16, YNBV11]. 7 [NBBKV10, NBNTG12]. $^{-1}$ [CRUV00]. $B(H)$ [AR15]. C^* [AR12, BBK22]. C_0 [Bir64d]. k [NTNBV14]. $\mathcal{B}(H)$ [AGK+21]. N [Kal93, CIL07, CSV80, RS81]. R^4 [BGT95]. $T^*\mathbf{T}^n$ [BC06]. $\mathrm{U}_q[\mathrm{gl}(m|n)]$ [De 03]. $wU^d_{r,s}(\mathrm{osp}(1|2n))$ [LY13].

***** [Sun91].

-algebras [BBK22]. **-modules** [AR12]. **-periodic** [KdC05]. **-semigroups** [Bir64d]. **-Stage** [NBNTG12, NBBKV10, NBNTGV11, NB16, YNBV11]. **-th** [CSV80].

1.2 [Kal93]. **11th** [BW61]. **12.50** [GG75]. **16th** [Bir78a]. **1862** [Bir56b]. **1900** [Bir79e]. **1960** [BBL62]. **1967** [BBAS69]. **1968** [BV70b, BV70a]. **1970** [BH71]. **1973** [Ano77]. **1978** [Bir79f]. **1980** [Sch81]. **1981** [Bir83a, Bir83b]. **1992** [Bir97]. **1996** [Var98]. **19th** [Bir78a].

2C [KRYG82]. **2ième** [MB73].

3 [Anoxx].

5-stage [NBHYV09]. **586** [KRYG82].

6 [BV59a].

8-stage [NTNBV14]. **80** [Bir74c].

A. [Bir62b]. **Abbildungen** [Lie18]. **Abel** [SP68]. **Abelian** [Bir34l, Bir34r]. **Abrégé** [Bir79e]. **Abstract** [Bir35b, Bir35a, Bir35c, Bir35l, FGP10b]. **Academia** [Bir74b]. **Academic** [Anoxx, Bir64b]. **Accelerated** [KRYG82]. **Accurate** [BF70]. **acoustics** [Bir85, Bir86]. **actions** [Bew71]. **Active** [SUB12]. **acyclic** [ACDM14, CdFM08, Fer15, kJ16, CdFM09]. **Adaptive** [KRYG82]. **Added** [BL80, BBL84]. **Advanced** [Ann33, AR34, Bir34q, BRW35, CB34, Dun35, DS35, Esc34, ERG+35, GL35, JS35, ØB37]. **Advances** [Anoxx]. **Adventures** [Bir77c]. **Ahlberg** [Bir69c]. **airfoil** [Bir46c]. **Albedo** [Bir60a]. **Algebra** [BM41, BM53, BM65a, BM65b, BB70a, BB70b, BH71, BB73, Bir76h, Bir76g, BM77, BL97, Cor96, MB67, MB79, MB88, RO87, Bir74a, Bir34b, Bir44b, Bir46a, Bir46e, Bir46f, Bir71e, Bir72b, Bir73a, Bir74c, Bir74d, BL74, Bir76b, Bir76c, Bir76f, Bir79a, Bir80a, Bir82c, BTL99, BCGVS11, Bir46a, BB73, Bog71, Bog85, Klo72, Mew67, Bir74b, BM92]. **Algebraic** [RMKPZ22, BBK22, Bir34f, Bir34g, GKM04, GZ08, Hoo75]. **Algebras** [LS93, Bau98, BBK22, Bir35e, Bir35l, Bir36h, Bir37j, BW39, BB46, BW49, BL70, MS92]. **Algèbre** [MB70, MB71, MB72, MB73, MB76, MB96, MB73]. **algorithm** [BBC88, Bru82, JDM60, LCXL11, KRYG82]. **Algorithmic** [SW08, LLL86, Müh81]. **alla** [Ven02]. **Allouch** [MB73]. **Almost** [Tau61b]. **Alt** [Anoxx]. **Alternating** [BV57a, BVY62, BV59b]. **alternative** [CC03]. **Amer** [Bir74c]. **America** [Tar77]. **American** [BL59, BW61, BBL62, BV70b, Gum66, Sec62, BBAS69, BH71, Bir77d, Tar77]. **analogue** [Gol01]. **Analysis** [Bir48c, BV70a, Bir73e, Bir78a, GG75, Gum66, Tau63b, Var62, BK52, Bir67b, Bir73c, Bir80a, BK84, FGK+63, Kop75, Ano77]. **Analytic** [BY50, BAS70, Bir72d, Lor82, MCS11]. **Analytical** [Bir38a, Let76]. **and/or** [Fin08]. **Angenaharte** [Lie18]. **Angewandte** [BB73]. **Angular** [Bir71c, Bir72a]. **anharmonic** [AWD86]. **anniversary** [BM92]. **annual** [Tar77]. **Appendixes** [Bir56b]. **application** [BdPK07, Ric11]. **Applications** [BD04, Bir34b, KLR19, LL07, Bir38c, Bir49c, BSV68, Bir82c, Bir95, Bir69c]. **Applied** [BL59, BW61, BBL62, BB70a, BB70b, Bir77b, Bir80a, Cut63, HY81, How62, Klo72, Sec62, BBAS69, Bir61c, BV70b, BH71, FGP10a, FGP10b, You97, BB73]. **Applying** [GV96]. **apportionment** [Bir76d]. **approach** [CHS03, Hoo75, Müh81]. **approaching** [Roq11]. **Approximate** [PSM18, CP11, Ric11]. **Approximation** [BdBSW66, Gar65, AIN12, BdB65, Bir67d, BF67, Bir69e, Bir72d, BCG74, Gar65]. **April** [BBAS69, BL59, BW61, BBL62, BV70b]. **arbitrarily** [LIW18]. **arbitrary** [BS82, DDCY17]. **area** [ST84]. **arithmetic** [Bir37a, Bir42a]. **arithmetical** [Ric11]. **Arthur** [Wei87]. **articles** [Bir37f]. **assistance** [Ano77, GG75]. **Association** [Tar77]. **Astrophysics** [Tau63c]. **Asymptotic** [BK66b, CG00]. **attainment** [SPH15]. **Automata** [Tau63b, BL74]. **automorfismos** [Bir46d]. **automorphisms** [Bir33c, Bir34l, BH36]. **automorphismus** [Bir34m]. **Autonomous** [BK76a, BF88, QQ23]. **Averaged** [Bir64a]. **Averages** [BD04]. **axially** [BW54a]. **axiom** [BB84]. **Axiomatic** [Bir33a]. **axiomatics** [Sch11].

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extended [Bir37a]. **Extension** [Bew71, BdPK07]. **Extensions** [Bir50a, Bir57, Gla69, RR21, Bir34i, Bir34k, Bir34u]. **extreme** [Shi22].

F. [Bir62b]. **Face** [CdFM09]. **Faces** [CM10]. **Fact** [Bir50b, Bir55b, Bir60b, Bir63a]. **factorization** [KJ06]. **families** [BB94, BK76a]. **family** [Shi22]. **fast** [LCXL11]. **Fe** [Sch81]. **Felix** [BB88]. **few** [BG74]. **few-point** [BG74]. **Field** [Boy70, BV70b, Hor78]. **fields** [BB49]. **fiftieth** [BM92]. **fifty** [Tar77]. **fifty-nineth** [Tar77]. **Final** [Bir75a]. **Finite** [BF71, BF74, Bir34c, BM74, Ric11, FGP10a]. **Finite-dimensional** [FGP10a]. **finitely** [BTL99]. **Finsler** [Rut98]. **first** [BK66b, Fin08, KdC05]. **first-order** [BK66b]. **Fitted** [MNS74]. **fixed** [Bar67]. **Flow** [BC49, BPS50, BPS52, Bir73d]. **Flows** [BD04, Bir61a, Rou04, BW54a, BGZ54, Bir64c, Bir78b]. **Fluid** [BC49, Bir90, Bir73d, Bir78b, Bir83d, Bir84c, Bir84b]. **fluids** [Bir87, Bir88b]. **fonctions** [Bir50c]. **fondamentales** [MB70]. **force** [BB49]. **force-fields** [BB49]. **forced** [KWM13]. **Form** [Rou04, AWD86, AW89, CRUV00, FGP10a, FGP10b, Kal93, Nik96, She08]. **Formation** [Bir53a]. **forms** [BGT95]. **Formula** [LL07, CC03, Lim07, MCS11]. **Formulacion** [Bir46b]. **Formulae** [BN90]. **Formulas** [Jet87, Dyn84, Jet82]. **formulation** [McE93]. **FORTRAN** [KRYG82]. **foundations** [Bir41, Bir44a]. **four** [NBSV08]. **four-stage** [NBSV08]. **four-step** [NBSV08]. **Fourier** [BK52, Bir54b, Bir67b]. **fractional** [JWH16]. **Frank** [Gum66]. **Franz** [Anoxx]. **Free** [Bir36d, Bir61a, BH63, Bir64c, Bir36a, Bir48d, Bir49b, Bir52a]. **freedom** [Kal93]. **Freeman** [Bog85]. **French** [Bir50c, SW65]. **function** [Bir80a, DDH18, Fin08]. **functional** [BK84, CHS03]. **functionals** [Bir34k]. **Functionen** [Lie18]. **Functions** [BY50, Gar65, Tau61b, AB12, Bir34a, Bir34i, Bir35f, Bir50c, Bir60a, Let76, Lie18, MCS11]. **Further** [DKPU18]. **Future** [Bir77b, Bir75g].

G [Ant63, Bir80a, Cut63, GG75, Gum66, How62, Lan63]. **G.** [Bir46b, Bir79d, JDM60, Lan63]. **G.-C** [Lan63]. **Galerkin** [WHWW21]. **Galois** [Bir37b, Sar37]. **Games** [Tau63c]. **Garret** [Bog71]. **Garrett** [Ano77, Bog85, Kop75, Mew67, Wei87, AW83, Ano75, Bir37f, Klo72, Mac98, RO87, Sax96, Var98, You97]. **Gauss** [Jet87]. **Gaussian** [BP71, Dyn84, Jet82]. **General** [AB39, AB40, Gar65, Bir36i, Bir37e, Bir39a, Bir40b, Bir79d]. **Généralisation** [SW65]. **generalization** [BK73, LLL86, SW65]. **Generalized** [BH35a, BH35b, Bir37c, Bir42a, MNS74, Mil17, SUB12, Bau98, Bon88, BS93, Hor78, KL88, McE93, MCS11]. **generated** [BTL99]. **geometies** [Bir34c]. **geometric** [RMKPZ22]. **Geometrie** [BB87]. **geometries** [Bir35d]. **Geometry** [Bir79f, Gum66, Tau62, Bir41, Bir44a, BK75, Bir82b, FGK$^+$63]. **George** [Bir82a, Zun02]. **German** [Bir46a, BB73, Lie18]. **Gerstenberg** [Bir80b]. **GITA** [CRUV00]. **Goldstein** [Gum66]. **Goldstine** [Bir78a]. **Gordon** [LIW18]. **grands** [MB71]. **Graph** [KLR19, Tin86]. **Graphs** [DKWL20]. **Grätzer** [Bir79d]. **gravitation** [Bir82a]. **Gravitational** [Boy70]. **gravity** [Zeg05]. **great** [Bir75g]. **Greedy** [DC18]. **Greenspan** [G.68]. **Group** [Bir37b, Tau61b, Bir36g, Bir43a, GKM04, Reu86]. **Groupes** [Bir49a]. **groupoids** [Bir34d, Bir34e]. **groups** [Bir33c, Bir33d, Bir34l, Bir34m, Bir34r, Bir35b, Bir35a, Bir35n, Bir36a, Bir36b, Bir36d, Bir36f, Bir36g, Bir36j, Bir36k, BH36, Bir37j, Bir38a, Bir39a, Bir42b, Bir45, Bir50a, MOSZ02]. **growth** [BMH58]. **Grundlagen** [BB87]. **grupos** [Bir46d]. **guaranteed** [CLY06]. **guide** [Bir80a].

Gustavson [AWD86, AW89, CRUV00, Kal93, Nik96].

H [Bir69c, Bir78a, Bog85]. **H.** [Bir80e]. **Hadamard** [Bir75h, RGZ18]. **Hamiltonian** [BB05, BC06, FGP10a, FGP10b, McE93]. **Hamiltonians** [AW89]. **hard** [Lie18]. **Harmonic** [BY50, BAS69, Lie18]. **Harmonischer** [Lie18]. **Harvard** [Ano77, GG75, Bir83e, Bir89, Bir91]. **Hausdorff** [Bir34d, Bir34e]. **heat** [BK54b, DR56]. **Heims** [Bir83a, Bir83b]. **Heisenberg** [KJ06]. **Held** [BBAS69, BL59, BH71, BW61, BV70b, BS84, Sch81]. **Helmholtz** [Bir62a]. **Henrici** [Bir80a, Bir80d]. **Herbert** [Bir80b]. **Herman** [Bir78a]. **Hermite** [SP68, AB12, ACD18, AS69, BP67, BSV68, BNBV10, CG00, CSV80, CJMT74, DD16b, DDH18, Dyn84, Fer74, Fin08, GM90, GM92, Hig91, LIW18, MNS74, Müh81, NBSV08, NBHYV09, NBBKV10, NBNTGV11, NBNTG12, NB16, NTNBV14, SSZ83, Sch69, YNBV11]. **Heterogeneous** [BL70]. **High** [VIT21, AIN12, CN17, LIW18]. **high-order** [LIW18]. **High-Speed** [VIT21]. **Higher** [BF74, Lia90]. **Higher-Order** [BF74]. **Hilbert** [Maj84, AR12, BB87, Lim07]. **Hildesheim** [Bir80b]. **Historical** [Hoo75]. **History** [Bir65a, Bir78a, MHR80, Nas90, Ven02]. **hold** [Bir75g]. **Hölder** [Bir34u]. **homenaje** [Bir62b]. **homogène** [BK54a]. **homogeneous** [Bir54b, BK62, BK58]. **horizons** [SA85]. **Hotel** [BW61, BBL62]. **House** [Bir76d, Bir97]. **HP** [Bir80a]. **HSP** [Amr94]. **HSP-Theorem** [Amr94]. **hulls** [MOSZ02]. **hybrid** [Gai17, MRYS20]. **Hydrodynamic** [BBL62, BL62b, BBL64, BD75a, BD75b]. **Hydrodynamical** [Bir48a, BL62a]. **Hydrodynamics** [Bir50b, Bir55b, Bir60b, Bir63a, Bir16, Tau63c]. **Hydrodynamique** [Bir55a]. **Hyperbolic** [BD04, Rou04]. **Hypersonic** [BEM66].

I. [Ano75]. **Ideals** [Bir34f, Bir34g, Bir34n, Bir35j]. **identities** [Bir34o]. **II** [Gum66, AIN12, Bir71b, Bir35j, Bir36d, BPS52, BK54d, Bir65d, BS84, Bir84b, FGP10b, MB71, Tau61b, dBS01, Wei87]. **III** [Bir48c, Tau63a]. **Impact** [Bir72c]. **Implicit** [BV57a, BV59b, BVY62]. **inclusion** [Bir36m, Bir37i]. **Independence** [KLR19]. **Induced** [Bir52a, Bir53b, Bir54c]. **Industrial** [BBAS69, BV70b, BH71, Bir80a]. **inequality** [BK73]. **Infinite** [SL15, KL19, PMW19]. **Infinite-Dimensional** [SL15]. **initial** [DAE13]. **initial-value** [DAE13]. **Instability** [Bir54e, Bir56b, Bir54d, BBL62, Bir62a, BBL64]. **Integrability** [Rou04]. **integral** [Bir46b, BK54c, BK54d]. **integrand** [CHS03]. **Integration** [Bir34a, Bir35f, Bir36e, Bir37g, Bir35h, Bir37h, Bir83c]. **integrators** [KWM13, LIW18, WHWW21]. **Integro** [BK66c]. **Integro-differential** [BK66c]. **interpolants** [BCG74, BCGVS11]. **Interpolation** [AS69, BG60, BP67, Bir73b, Boj93, CJMT74, DLR82, GV96, Hig91, LZ71, Lor92c, MNS74, RES01, Sch69, SP68, AB12, ACD18, BBG73, BdB64, BdB65, BSV68, Bir69e, Bir71f, Bir72d, Bir79a, BDS00, CG00, CSV80, CLLX11, CL15, DAE13, DD16b, FSZ85, Fin08, GM90, GM92, Jia95, JWH16, LCXL11, Lor82, Lor92a, Lor92b, MT18, Müh81, RS81, SSZ83, WZD09, XLD23, Zhu97, dS00, dDS00, dBS01, dBD05]. **interval** [Bir62b]. **Introduction** [Bir75b, Bir75c, Bir75d, Bir75e, Bir75f]. **invariant** [Bir67c]. **invariants** [Lut79]. **inverse** [CRUV00]. **involving** [Fin08, Ric11]. **irregular** [MRYS20]. **Irrisolto** [Ven02]. **Island** [Gum66]. **isomorphic** [Bir36f, Bir36g]. **isomorphism**

[Tin86]. **Isoperimetric** [BH35c, BH35d]. **isotrope** [BK54a]. **Isotropic** [BG79]. **Italian** [Ven02]. **Iterative** [Fra50, HY81, KRYG82, Var62, You50, You54]. **ITPACK** [BL90a, KRYG82]. **IV** [Tau62]. **ix** [Bir80b, Ric11].

J [BV59a, Bir69c, Bir80a, MB73]. **J.** [Bir79e]. **J.-C** [MB73]. **Jacobson** [Bog85]. **James** [AR12, AR15, AGK+21, AV22, BBK22, CP11, CP13, KL19, MZ17, PSG16, PSM18, PMW19, SPH15]. **James-orthogonality** [CP13]. **January** [BS84, Mac98, Var98]. **Jentzsch** [Bir57]. **Jets** [BS64, BZ57, Bir58a]. **John** [Bir80a, G.68, Tau61a, Tau61b, Tau63a, Tau62, Tau63b, Tau63c, Zun02, Bir83a, Bir83b, Bir97]. **Johnson** [Nis79]. **Jordan** [Bir34u, BW49]. **July** [Sch81]. **June** [Sch81].

Kac [Gum66]. **kaverny** [BS64]. **Kergin** [Lor92b]. **kind** [Jia95]. **Kinematics** [BK62, BK58]. **Kinetics** [Bir66]. **Klein** [BB88, LIW18]. **knots** [Boj93]. **Konformer** [Lie18]. **Kutta** [Hig91, NTNBV14].

L [Anoxx, Bir69c, Bir38b]. **LA-1862** [Bir56b]. **Laboratories** [Gar65]. **Lagrange** [CN17]. **Lagrange-collocation** [CN17]. **Lagrangian** [BL62b]. **Laminar** [Bir54e]. **Lane** [Bog71, Bog85, Mew67]. **Large** [KRYG82, Bir36f]. **Lattice** [Abb70, Bir40a, Bir42b, Bir43b, Bir45, Bir48b, BP56, Bir61b, Bir63b, Bir67a, BHC+70, Bir79b, Bir79c, Bir79d, Bir34b, Bir34n, Bir35j, Bir35k, Bir46g, Bir52c, Bir58b, BB85b, Bir84a, Bir81a]. **Lattice-ordered** [Bir42b, Bir45, BP56, Bir63b]. **Lattices** [Bir34h, Bir38c, Bir61c, Bir70, Bir95, BB84, BB85a, BB94, Bir35c, Bir36c, Bir40b, BK47, BF48, Sch11]. **laws** [Bir64a]. **Leaders** [Bir77d]. **Leibniz** [CIL07]. **lemma** [De 03]. **Lewis** [BF88, BB05]. **Lewis-Type** [BB05]. **Liapunov** [BK73]. **libration** [She08]. **Lie** [Bau98, Bir35n, Bir36f, Bir36g, Bir36h, Bir37j, Bir45, BW49, Bir50a]. **like** [BB46]. **limit** [Bir35g]. **limitation** [Bir67b]. **linéaire** [MB73]. **lineal** [Bir46e]. **Linear** [Bir34i, Bir36h, BK67, Bir67c, KRYG82, You53, Bir34k, Bir35c, Bir35k, Bir35m, Bir36b, Bir36f, Bir36g, Bir46a, Bir46e, BD56, BK65, Bir65b, BK66b, BK69, BK70, BK71, BG74, BK75, Bir80a, BL90b, PSG16, PSM18, QQ23, Bir35b]. **linearen** [Bir46a]. **linearization** [XLD23]. **Lined** [BMPT48]. **LINPACK** [Bir80a]. **Liouville** [BR60]. **Load** [CLL01, CLY06]. **Local** [Bir67d]. **locally** [BCG74]. **logarithm** [Reu86]. **Logic** [Amr94, Bir50b, Bir55b, Bir60b, Ven02, BvN36, Bir63a, Tau61a]. **Logica** [Ven02]. **logico** [Hoo75]. **logico-algebraic** [Hoo75]. **Logics** [Sun91, Gai17]. **London** [Bir64b, Bir83a, Bir83b]. **long** [LIW18]. **long-time** [LIW18]. **Lorentzian** [Lim07]. **Lorenz** [Lim07]. **Lovelock** [Zeg05]. **Lowell** [Bir65a]. **Lubos** [Bir74b]. **Lubrication** [BH63]. **Lusztig** [LY13].

M [Bir77c, Gum66]. **M.I.T** [Bir83a, Bir83b]. **Mac** [Bog71, Bog85, Mew67]. **Macrae** [Bir97]. **magnet** [KJ06]. **magnetic** [Hor78]. **manifolds** [ACD18]. **many** [MS92]. **many-sorted** [MS92]. **mapping** [BYZ53]. **mappings** [Lie18]. **Maps** [LS93, BGT95, ST84]. **March** [BH71]. **masonry** [Ric11]. **Mass** [Ano77, Bir83a, Bir83b, GG75, Bir52a, Bir53b, BL80, BBL84]. **Matematika** [Bir77a]. **materials** [BL62a]. **Math** [Bir74c]. **Mathematical** [BBAS69, BL59, BW61, BBL62, Bir65a, BV70b, BH71, Bir72c, Bir73c, Cor96, Gum66, Sec62, Bir60c, Bir85, Bir86, Bir88b, Tar77]. **mathematician** [Bir77c]. **Mathematics** [Bir71a, Bir71b, Bir48c, BL59, BW61, BBL62, Bir69d, Bir75g, Bir76e, Bir77b, Bir77d, Bir80a, BS84, Bir89, Cut63, How62,

Sax96, Sec62, BBAS69, Bir61c, BV70b, BH71, Bir76a, Tar77, You97, GG75]. **Mathématiques** [Bir79e]. **Matrices** [AK01, BV57b, BV58, BV59a, CS80, RGZ18, You53, BS82, Bir37j, Bir75h, BG79, BBC88, Bru82, DDCY17, DD16a, DD19, DU16, DKPU18, JDM60, Nis79, Shi22]. **Matrix** [LS93, Var62, CC03]. **Matter** [BL62b]. **maximal** [BBK22, Mil17]. **Maximally** [KLR19]. **maximum** [BW54b]. **Maxwell** [Hor78, SL16]. **McCoy** [RR21]. **mean** [Bir39b]. **meaning** [Bir37d]. **Means** [Bir50c]. **mechanical** [BC06]. **Mechanics** [BS84, Gum66, Tau61a, BvN36, FGK$^+$63, Hoo75]. **mediante** [Bir46b]. **meeting** [Tar77]. **Mehrtens** [Bir80b, Bir80e]. **memoriam** [Var98]. **Mendelsohn** [Nis79]. **meromorphic** [Lut79]. **Merzbach** [Ano77, GG75, Kop75]. **meshes** [MRYS20]. **Meteorology** [Tau63c]. **Method** [RES01, Sun91, You53, DAE13, RPB23]. **Methods** [BV57a, BF71, BF74, BD76, HY81, KRYG82, MNS74, NBNTG12, Sou46, SL15, BYZ53, BV59b, BVY62, Bir65c, Bir80a, BGL90, CN17, FGP10a, FGP10b, JWH16, MT18, NBNTGV11, NB16, NTNBV14, SL16, XLD23, You50, You54]. **Metric** [Bir41, Bir44a, Bir33a, Bir35m, Lim07, BK62]. **metrics** [KL88]. **Mezard** [MB73]. **Michell** [BK54c, BK54d]. **Michigan** [Gar65]. **Mills** [BS93]. **Milne** [Boy70]. **Minimal** [Fer74]. **Minimax** [BH35a, BH35b]. **minimization** [Bir80a]. **Mises** [Gum66, Bir83e, FGK$^+$63]. **Mixing** [Bir54e]. **mobile** [SW65]. **Möbius** [dDS00]. **modèle** [BK54a]. **modeling** [BE63]. **Models** [BL62b, Bir88b]. **Modern** [BM41, BM53, BM65a, BM65b, BB70a, BB70b, Bir76h, Bir76g, BM77, BL97, Cor96, Klo72, Bir71e, Bir74b, BM92]. **modular** [Bir35e]. **modules** [AR12]. **Molecular** [BL62b]. **Moler** [Bir80a]. **moments** [Bir67d]. **monogenic** [Bir34k]. **monoids** [Bra60]. **monomial** [CL15]. **monopole** [Hor78]. **monotone** [Bir76d]. **Monterey** [BS84]. **Monthly** [Bir74c]. **Moore** [Bir36i, Bir37e]. **Moore-Smith** [Bir36i]. **Morris** [Anoxx]. **motion** [SW65]. **Motors** [Gar65]. **mouvement** [SW65]. **Moyennes** [Bir50c]. **multi** [SL16]. **multi-symplectic** [SL16]. **multigroup** [Bir75a]. **multiple** [GZ08]. **multiplicative** [Bir62c, Bir65d]. **Multistep** [MNS74, NB16]. **Multistochastic** [CLN14]. **Multivariate** [AB12, BCG74, Lor92c, Bir79a, CLLX11, CL15, LCXL11, WZD09]. **mutual** [AGK$^+$21].

N [Bir69c]. **Nash** [Bir80a]. **Nathan** [Bog85]. **nation** [Tar77]. **Natural** [BH35c, BH35d]. **Naval** [BS84]. **Negative** [BV57b]. **nested** [BG73]. **network** [BD56]. **networks** [Bir63d, BK66a]. **Neumann** [Bir83a, Bir83b, Bew71, Bir58b, CLL01, CLY06, CQCZ19, CLN14, DKWL20, DU16, DKPU18, DC18, LLL86, Tau61a, Tau61b, Tau63a, Tau62, Tau63b, Tau63c, Ven02, YZLH17, Zun02, Bir97]. **Neutral** [Bir40b]. **neutron** [Bir63c]. **Newman** [BB94]. **Newton** [WZD09]. **Newtonian** [BB49]. **nilpotent** [Bir36h]. **Nilson** [Bir69c]. **nineth** [Tar77]. **Ninth** [BL59]. **NM** [Sch81]. **no** [Bir36f, Bir36g, BV59a]. **Nodes** [Sch69]. **Noether** [SZ15]. **Non** [Bir35h, BD56, BV57b, BF88, dS00]. **Non-commutative** [Bir35h]. **Non-linear** [BD56]. **Non-Negative** [BV57b]. **non-uniformly** [dS00]. **Nonlinear** [BV70a, Bir83c, G.68, Bir63d, KJ06, LIW18]. **Nonnegative** [BV58, BV59a]. **nonuniformly** [dBS01, dBD05]. **Norbert** [Bir83a, Bir83b]. **norm** [SPH15]. **Normal** [Rou04, AWD86, AW89, BGT95, CRUV00, CHS03, FGP10a, FGP10b, Kal93, Nik96, She08]. **normalization** [BHLV03]. **Norman** [Bir97]. **normed** [Bir34p]. **North** [BV70b]. **Note** [Aus67, Bir34j, BB49, BK54b, BW54b, Bir54d, Bir65b, Bir76f, Bir36j, Bir36k].

Notes [BBC88, Bru82, DU16, DKPU18]. **November** [Mac98, Var98]. **Novy** [Bir74b]. **Nuclear** [Cut63, How62, Bir60c, BW61]. **Number** [BH71, KLR19]. **numbers** [Bir75h, Reu86]. **Numerical** [BY50, BYZ53, Bir66, BL66, Bir69a, BV70b, BV70a, Bir71d, Bir73d, BD75a, BD75b, BD76, Bir78a, Bir83d, Bir84c, Bir84b, BL84, PR55, SL15, Tau63b, BBK22, Bir80a, Bir85, Bir86, Bör89, CP11, DAE13, DR56, Sho53, G.68].

Obrechkoff [YNBV11, NBSV08]. **observaciones** [Bir46e]. **observations** [Bir46e]. **obstacles** [BGZ54]. **ocean** [Bir85, Bir86]. **October** [BV70a]. **ODE** [BNBV10, NBSV08, NBHYV09, NBBKV10]. **ODEs** [NB16]. **Office** [BS84]. **Offprints** [Bir37f]. **One** [NBHYV09, AW89, BSV68, NBBKV10]. **one-dimensional** [AW89]. **One-step** [NBHYV09, NBBKV10]. **only** [Fin08]. **Opening** [Ano75]. **operation** [BK47]. **Operational** [Bir34o]. **Operator** [MZ17, SPH15]. **Operators** [AR15, AGK+21, Tau63a, Bir37h, Bir43a, Bir65b, DD16b, GS10, KL19, PSG16, PSM18, PMW19, Sho53, Tau61b]. **Optimal** [BP71, BG74]. **Orbit** [BL59, BK76b]. **orbits** [BC06, KdC05]. **Order** [Bir37i, BF74, Bir33c, Bir34m, BH36, BK66b, BK67, BK69, BK75, Bir88a, CN17, LIW18, NBSV08, NBHYV09, NBBKV10, NTNBV14, YNBV11]. **Ordered** [Bir82b, Bir36m, Bir42b, Bir45, BP56, Bir63b]. **Ordinary** [BR62, BR69, BR78, BR89, Lan63, Ant63]. **Origins** [Bir74b]. **Orthogonality** [Bir34p, Bir35m, MZ17, AR12, AR15, AGK+21, AV22, BBK22, CP11, CP13, KL19, PSG16, PSM18, PMW19, SPH15]. **oscillation** [AIN12]. **oscillator** [AWD86]. **Other** [Tau62, ACD18].

P [Cut63, How62, Bir74b]. **Pa** [BV70a]. **Package** [KRYG82]. **Pál** [dBD05]. **Pál-type** [dBD05]. **Panstochastic** [AK01]. **Paper** [Gla69, Bir34j, BBC88]. **Papers** [Gum66, RO87, FGK+63, Tar77]. **Parabolic** [PR55]. **Paradoxes** [Bir48a]. **Part** [FGP10a, FGP10b]. **Partial** [AS69, Bir48c, Bir54a, BH63, Bir65c, Fra50, BM58, BSV68, You50, You54]. **Partially** [Bir36m]. **partie** [MB73]. **past** [BGZ54]. **Patterns** [BC49]. **PDEs** [BB05, FGP10a, FGP10b]. **Peano** [BB84]. **perfectly** [Bir33a]. **period** [BMT03]. **Periodic** [Tau61b, BC06, BP71, Boj93, KdC05]. **perturbed** [BDS00]. **Peter** [Bir80a, Bir80d]. **Ph** [Gum66]. **phase** [Bir78b]. **phenomena** [Maj84]. **Philadelphia** [BV70a, Bir80a]. **Philosophy** [Bir79f]. **physical** [Bir88b, Ric11]. **Physics** [Sou46, BV70b]. **Piecewise** [BdB65, BdBSW66, BSV68, Bir69e, Bir72d]. **Pierce** [Mar92]. **pipes** [Bir64a]. **plane** [BGZ54, BC57]. **PM** [DKWL20]. **PM-Compact** [DKWL20]. **pocket** [Bir80a]. **Poincaré** [Bar67, Bau98, BC06, Bir79f, BTL99, CIL07, De 03, LY13, RR21, TTT99, Reu86, Roq11]. **Point** [RES01, Bar67, BG74]. **points** [Bir34o, She08, Shi22, dBD05]. **Poised** [AS69]. **polygons** [Bir69e, Bir72d]. **Polynomial** [BCGVS11, BdB65, Bir71f, CG00, MRYS20, Sho53]. **Polynomials** [BdBSW66, BF67, Lor82, Zhu97]. **Polytope** [KLR19, RGZ18, CdFM08, CdFM09, CM10, Mar06, RMKPZ22]. **polytopes** [ACDM14, Fer15, kJ16]. **Popper** [Ven02]. **poset** [BB85b]. **Positive** [BK70, BK71, LS93, You53, BK65, Bir65b, BK66c, BK67, BK69, BK75, BK76b, CC03]. **Positivity** [Bir61d]. **possibly** [MS92]. **Postulates** [Bir35n, BB46]. **Potential** [Bir61a]. **potentials** [Bir54c]. **pour** [SW65]. **power** [DD19]. **Pp** [GG75, Bir77c, Bir80a, Bir80b]. **pp.** [Anoxx, Bir64b, Bir80a, G.68]. **Prager**

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