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Group Theoretical Methods In Physics 1988

Gordon W. F. Drake

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    Modern Group Theoretical Methods in Physics J. Bertrand,M. Flato,J.-P. Gazeau,M. Irac-Astaud,Daniel Sternheimer,2013-06-29 This book contains the proceedings of a meeting that brought together friends and colleagues of Guy Rideau at the Universit Denis Diderot Paris France in January 1995 It contains original results as well as review papers covering important domains of mathematical physics such as modern statistical mechanics field theory and quantum groups The emphasis is on geometrical approaches Several papers are devoted to the study of symmetry groups including applications to nonlinear differential equations and deformation of structures in particular deformation quantization and quantum groups The richness of the field of mathematical physics is demonstrated with topics ranging from pure mathematics to up to date applications such as imaging and neuronal models Audience Researchers in mathematical physics

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    Quantum Gravity - Proceedings Of The Fifth Seminar M A Markov,V A Berezin,Valeri P Frolov,1991-07-30 This is the fifth in the important series of Moscow Seminars on Quantum Gravity The main topics are Quantum Gravity Quantum Field Theory in Curved Spacetime Quantum Black Hole Physics Quantum Cosmology Early Universe Kaluza Klein Theory Superstrings and Superstring Cosmology and all that   **Supermanifolds** Bryce Seligman DeWitt,1992-05-28 This updated

and expanded second edition of an established text presents a detailed exposition of the modern theory of supermanifolds including a rigorous account of the superanalogs of all the basic structures of ordinary manifold theory *Springer Handbook of Atomic, Molecular, and Optical Physics* Gordon W. F. Drake,2007-02-05 This Springer Handbook comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field Its 90 chapters written by about 120 authors all leaders in their repsective disciplines together with a guide to the primary research literature It has been carefully edited to ensure a uniform coverage and style with extensive cross references It is intended to be both a source of information and inspiration for graduate students and other researchers new to the field Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook **Group Representation Theory For Physicists (2nd Edition)** Jialun Ping,Fan Wang,Jin-quan Chen,2002-08-15 This book introduces systematically the eigenfunction method a new approach to the group representation theory which was developed by the authors in the 1970 s and 1980 s in accordance with the concept and method used in quantum mechanics It covers the applications of the group theory in various branches of physics and quantum chemistry especially nuclear and molecular physics Extensive tables and computational methods are presented Group Representation Theory for Physicists may serve as a handbook for researchers doing group theory calculations It is also a good reference book and textbook for undergraduate and graduate students who intend to use group theory in their future research careers **Computer Algebra In Physical Research: Memorial Volume For N N Govorun - Proceedings Of The Iv International Conference** V A Rostovtsev,Dmitri V Shirkov,V P Gerdt,1991-12-11 Professor Nicholas N Govorun corresponding member of the USSR Academy of Sciences was the principal organizer of the precedent meetings held at Dubna 1979 1983 1985 Unfortunately he passed away in 1989 This volume is to honor his support in Computer Algebra This is perhaps the only meeting of the entire soviet union computer algebra community and foreign scientists The meeting presented scientific results plans for research facilities and status reports of the basic areas of investigations The fields covered include computer algebra systems and general algorithms as well as applied algorithms programs and results in computer algebra applications mainly in physics **Algebra, Arithmetic, and Geometry** Yuri Tschinkel,Yuri Zarhin,2010-08-05 EMAlgebra Arithmetic and Geometry In Honor of Yu I ManinEM consists of invited expository and research articles on new developments arising from Manin s outstanding contributions to mathematics **International Books in Print** ,1997 *Scientific and Technical Aerospace*

Reports ,1990   Energy Research Abstracts ,1990   Infinite Analysis: Rims Project 1991 (In 2 Volumes) Tohru Eguchi,Michio Jimbo,Akihiro Tsuchiya,1992-06-25 This is a collection of original research papers presented at the workshop The main topics covered are Conformal Field Theory Integrable Massive Field Theory Quantum Gravity Quantum Group Lattice Solvable Models Low Dimensional Topology and C Algebras   **Modern Trends in Algebra and Representation Theory** David Jordan,Nadia Mazza,Sibylle Schroll,2023-08-17 Aimed at graduate students and non experts this text gives a guided tour of modern developments in algebra and representation theory   基礎物理学の現状と未来 : 素粒子論を中心として ,1989   *A Guide to Quantum Groups* Vyjayanthi Chari,Andrew N. Pressley,1995-07-27 Since they first arose in the 1970s and early 1980s quantum groups have proved to be of great interest to mathematicians and theoretical physicists The theory of quantum groups is now well established as a fascinating chapter of representation theory and has thrown new light on many different topics notably low dimensional topology and conformal field theory The goal of this book is to give a comprehensive view of quantum groups and their applications The authors build on a self contained account of the foundations of the subject and go on to treat the more advanced aspects concisely and with detailed references to the literature Thus this book can serve both as an introduction for the newcomer and as a guide for the more experienced reader All who have an interest in the subject will welcome this unique treatment of quantum groups   The Analytical and Topological Theory of Semigroups Karl H. Hofmann,Jimmie D. Lawson,John S. Pym,2011-05-03 The aim of the series is to present new and important developments in pure and applied mathematics Well established in the community over two decades it offers a large library of mathematics including several important classics The volumes supply thorough and detailed expositions of the methods and ideas essential to the topics in question In addition they convey their relationships to other parts of mathematics The series is addressed to advanced readers wishing to thoroughly study the topic Editorial Board Lev Birbrair Universidade Federal do Cear Fortaleza Brasil Walter D Neumann Columbia University New York USA Markus J Pflaum University of Colorado Boulder USA Dierk Schleicher Jacobs University Bremen Germany Katrin Wendland University of Freiburg Germany Honorary Editor Victor P Maslov Russian Academy of Sciences Moscow Russia Titles in planning include Yuri A Bahturin Identical Relations in Lie Algebras 2019 Yakov G Berkovich and Z Janko Groups of Prime Power Order Volume 6 2019 Yakov G Berkovich Lev G Kazarin and Emmanuel M Zhmud Characters of Finite Groups Volume 2 2019 Jorge Herbert Soares de Lira Variational Problems for Hypersurfaces in Riemannian Manifolds 2019 Volker Mayer Mariusz Urba ski and Anna Zdunik Random and Conformal Dynamical Systems 2021 Ioannis Diamantis Bo tjan Gabrov ek Sofia Lambropoulou and Maciej Mroczkowski Knot Theory of Lens Spaces 2021   *Integrable and Superintegrable Systems* Boris A. Kupershmidt,1990 Some of the most active practitioners in the field of integrable systems have been asked to describe what they think of as the problems and results which seem to be most interesting and important now and are likely to influence future directions The papers in this collection representing their authors responses offer a broad panorama of the subject as it enters the 1990 s   *Quantum*

Fields and Strings: A Course for Mathematicians Pierre Deligne,Pavel Etingof,Daniel S. Freed,Lisa C. Jeffrey,David Kazhdan,John W. Morgan,David R. Morrison,Edward Witten,1999-10-25 A run away bestseller from the moment it hit the market in late 1999 This impressive thick softcover offers mathematicians and mathematical physicists the opportunity to learn about the beautiful and difficult subjects of quantum field theory and string theory Cover features an intriguing cartoon that will bring a smile to its intended audience

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