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Generators and Relations for Discrete Groups

Fourth Edition



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Generators And Relations For Discrete Groups

Harold Scott Macdonald
Coxeter, Chandler Davis, Erich W. Ellers

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A Survey of Lie Groups and Lie Algebras with Applications and Computational Methods Johan G. F. Belinfante,Bernard Kolman,1989-01-01 Introduces the concepts and methods of the Lie theory in a form accessible to the non specialist by keeping mathematical prerequisites to a minimum Although the authors have concentrated on presenting results while omitting most of the proofs they have compensated for these omissions by including many references to the original literature Their treatment is directed toward the reader seeking a broad view of the subject rather than elaborate information about technical details Illustrations of various points of the Lie theory itself are found throughout the book in material on applications In this reprint edition the authors have resisted the temptation of including additional topics Except for correcting a few minor misprints the character of the book especially its focus on classical representation theory and its computational aspects has not been changed **An Introduction to Geometrical Physics** Aldrovandi Ruben,Pereira Jose Geraldo,2016-10-07 This book focuses on the unifying power of the geometrical language in bringing together concepts from many different areas of physics ranging from classical physics to the theories describing the four fundamental interactions of

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Discrete Groups in Space and Uniformization Problems B. Apanasov, 1991-06-30 A revised and substantially enlarged edition of the Russian book Discrete transformation groups and manifold structures published by Nauka in 1983 this volume presents a comprehensive treatment of the geometric theory of discrete groups and the associated tessellations of the underlying space Also dealt with in depth are geometric and conformal structures on manifolds with particular emphasis on hyperbolic n dimensional manifolds A detailed account of the geometric and analytic properties of geometrically finite Möbius groups in n dimensional space is given and this forms the basis of the subsequent analysis Emphasis is placed on the geometrical aspects and on the universal constraints which must be satisfied by all tessellations and structures on manifolds Annotation copyrighted by Book News Inc Portland OR

Research in History and Philosophy of Mathematics Maria Zack, Dirk Schlimm, 2017-12-18 This volume contains fourteen papers that were presented at the 2016 Annual Meeting of the Canadian Society for History and Philosophy of Mathematics La Société Canadienne d'Histoire et de Philosophie des Mathématiques held at the University of Calgary in Alberta Canada In addition to showcasing rigorously reviewed modern scholarship on an interesting variety of topics in the history and philosophy of mathematics this meeting also honored the life and work of the logician and philosopher of mathematics Aldo Antonelli 1962-2015 The first four papers in this book are part of that remembrance and have a philosophical focus Included in these are a discussion of Bolzano's objections to Kant's philosophy of mathematics and an examination of the influence of rhetorical and poetic aesthetics on the development of symbols in the 16th and 17th Centuries The remaining papers deal with the history of mathematics and cover

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Algebraic Generalizations of Discrete Groups Benjamin Fine, Gerhard Rosenberger, 1999-07-27 A survey of one relator products of cyclics or groups with a single defining relation extending the algebraic study of Fuchsian groups to the more general context of one relator products and related group theoretical considerations It provides a self contained account of certain natural generalizations of discrete groups

Groups Acting on Hyperbolic Space Juergen Elstrodt, Fritz Grunewald, Jens Mennicke, 2013-03-09 This book is concerned with discontinuous groups of motions of the unique connected and simply connected Riemannian 3 manifold of constant curvature 1 which is traditionally called hyperbolic 3 space This space is the 3 dimensional instance of an analogous Riemannian manifold which exists uniquely in every dimension $n \geq 2$ The hyperbolic spaces appeared first in the work of Lobachevski in the first half of the 19th century Very early in the last century the group of isometries of these spaces was studied by Steiner when he looked at the group generated by the inversions in spheres The geometries underlying the hyperbolic spaces were of fundamental importance since Lobachevski Bolyai and Gau had observed that they do not satisfy the axiom of parallels Already in the classical works several concrete coordinate models of hyperbolic 3 space have appeared They make explicit computations possible and also give identifications of the full group of motions or isometries with well known matrix groups One such model due to H Poincare is the upper 3 half space $\mathbb{H}^3$ in $\mathbb{R}^4$ The group of isometries is then identified with an extension of index 2 of the group $\mathrm{PSL}(2, \mathbb{C})$

Basic Notions of Algebra Igor R. Shafarevich, 2005-04-13 Wholeheartedly recommended to every student and user of mathematics this is an extremely original and highly informative essay on algebra and its place in modern mathematics and science From the fields studied in every university maths course through Lie groups to cohomology and category theory the author shows how the origins of each concept can be related to attempts to model phenomena in physics or in other branches of mathematics Required reading for mathematicians from beginners to experts

Cohomology of Groups Kenneth S. Brown, 2012-12-06 As a second year graduate textbook Cohomology of Groups introduces students to cohomology theory involving a rich interplay between algebra and topology with a minimum of prerequisites No homological algebra is assumed beyond what is normally learned in a first course in algebraic topology The basics of the subject are given along with exercises before the author discusses more specialized topics

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