

**Mathematics and Its Applications**

**A. Yu. Ol'shanskii**

**Geometry of Defining  
Relations in Groups**



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# Geometry Of Defining Relations In Groups

**C. M. Campbell, E. F. Robertson, N.  
Ruskuc, G. C. Smith**



## **Geometry Of Defining Relations In Groups:**

**Geometry of Defining Relations in Groups** A.Yu. Ol'shanskii,1991-10-31 The main feature of this book is a systematic application of elementary geometric and topological techniques for solving problems that arise naturally in algebra After an account of preliminary material there is a discussion of a geometrically intuitive interpretation of the derivation of consequences of defining relations of groups A study is made of planar and certain other two dimensional maps connected with well known problems in general group theory such as the problems of Burnside and O Yu Schmidt The method of cancellation diagrams developed here is applied to these and to a series of other problems This monograph is addressed to research workers and students in universities and may be used as a basis for a series of specialized lectures or seminars

Geometry of Defining Relations in Groups A. Yu. Ol'shanskii,1991-10-31      *The Concise Handbook of Algebra* Alexander V. Mikhalev,G.F. Pilz,2013-06-29 It is by no means clear what comprises the heart or core of algebra the part of algebra which every algebraist should know Hence we feel that a book on our heart might be useful We have tried to catch this heart in a collection of about 150 short sections written by leading algebraists in these areas These sections are organized in 9 chapters A B I Of course the selection is partly based on personal preferences and we ask you for your understanding if some selections do not meet your taste for unknown reasons we only had problems in the chapter Groups to get enough articles in time We hope that this book sets up a standard of what all algebraists are supposed to know in their chapters interested people from other areas should be able to get a quick idea about the area So the target group consists of anyone interested in algebra from graduate students to established researchers including those who want to obtain a quick overview or a better understanding of our selected topics The prerequisites are something like the contents of standard textbooks on higher algebra This book should also enable the reader to read the big Handbook Hazewinkel 1999 and other handbooks In case of multiple authors the authors are listed alphabetically so their order has nothing to do with the amounts of their contributions

Visual Group Theory Stephan Rosebrock,2024-07-04 This textbook provides an introduction to group theory starting from the basics relying on geometry to elucidate its various aspects Groups naturally manifest as symmetries of geometric shapes such as reflections and rotations The book adopts this perspective to provide a straightforward descriptive explanation supported by examples and exercises in GAP an open source computer algebra system It covers all of the key concepts of group theory including homomorphisms group operations presentations products of groups and finite abelian and solvable groups The topics include cyclic and symmetric groups dihedral orthogonal and hyperbolic groups as well as the significant notion of Cayley graphs Self contained and requiring little beyond high school mathematics this book is aimed at undergraduate courses and features numerous exercises It will also appeal to anyone interested in the geometric approach to group theory

**Lower Central and Dimension Series of Groups** Roman Mikhailov,Inder Bir Singh Passi,2009 A fundamental object of study in group theory is the lower central series of groups Understanding its relationship with the

dimension series is a challenging task This monograph presents an exposition of different methods for investigating this relationship

**Diagram Groups** Victor Guba, Mark Sapir, 1997 Diagram groups are groups consisting of spherical diagrams pictures over monoid presentations They can be also defined as fundamental groups of the Squier complexes associated with monoid presentations The authors show that the class of diagram groups contains some well known groups such as the R Thompson group  $F$  This class is closed under free products finite direct products and some other group theoretical operations The authors develop combinatorics on diagrams similar to the combinatorics on words This helps in finding some structure and algorithmic properties of diagram groups Some of these properties are new even for R Thompson's group  $F$  In particular the authors describe the centralizers of elements in  $F$  prove that it has solvable conjugacy problems etc

**Problems on Mapping Class Groups and Related Topics** Benson Farb, 2006-09-12 The appearance of mapping class groups in mathematics is ubiquitous The book presents 23 papers containing problems about mapping class groups the moduli space of Riemann surfaces Teichmüller geometry and related areas Each paper focusses completely on open problems and directions The problems range in scope from specific computations to broad programs The goal is to have a rich source of problems which have been formulated explicitly and accessibly The book is divided into four parts Part I contains problems on the combinatorial and cohomological group theoretic aspects of mapping class groups and the way in which these relate to problems in geometry and topology Part II concentrates on connections with classification problems in 3 manifold theory the theory of symplectic 4 manifolds and algebraic geometry A wide variety of problems from understanding billiard trajectories to the classification of Kleinian groups can be reduced to differential and synthetic geometry problems about moduli space Such problems and connections are discussed in Part III Mapping class groups are related both concretely and philosophically to a number of other groups such as braid groups lattices in semisimple Lie groups and automorphism groups of free groups Part IV concentrates on problems surrounding these relationships This book should be of interest to anyone studying geometry topology algebraic geometry or infinite groups It is meant to provide inspiration for everyone from graduate students to senior researchers

*The Genesis of the Abstract Group Concept* Hans Wussing, 2007-01-01 It is a pleasure to turn to Wussing's book a sound presentation of history declared the Bulletin of the American Mathematical Society The author Director of the Institute for the History of Medicine and Science at Leipzig University traces the axiomatic formulation of the abstract notion of group 1984 edition

**Groups** St Andrews 2017 in Birmingham C. M. Campbell, C. W. Parker, M. R. Quick, E. F. Robertson, C. M. Roney-Dougal, 2019-04-11 This volume arises from the 2017 edition of the long running Groups St Andrews conference series and consists of expository papers from leading researchers in all areas of group theory It provides a snapshot of the state of the art in the field and it will be a valuable resource for researchers and graduate students

**Infinite Groups: Geometric, Combinatorial and Dynamical Aspects** Laurent Bartholdi, Tullio Ceccherini-Silberstein, Tatiana Smirnova-Nagnibeda, Andrzej Zuk, 2006-03-28 This book offers a panorama of recent advances

in the theory of infinite groups It contains survey papers contributed by leading specialists in group theory and other areas of mathematics Topics include amenable groups Kaehler groups automorphism groups of rooted trees rigidity C algebras random walks on groups pro p groups Burnside groups parafree groups and Fuchsian groups The accent is put on strong connections between group theory and other areas of mathematics      **Bulletin of the American Mathematical Society** ,1905      Groups St Andrews 2013 C. M. Campbell,M. R. Quick,E. F. Robertson,C. M. Roney-Dougal,2015-10-22 Leading researchers survey the latest developments in group theory and many related areas      **Infinite Groups** Martyn R. Dixon,Leonid A. Kurdachenko,Igor Ya. Subbotin,2023-01-26 In recent times group theory has found wider applications in various fields of algebra and mathematics in general But in order to apply this or that result you need to know about it and such results are often diffuse and difficult to locate necessitating that readers construct an extended search through multiple monographs articles and papers Such readers must wade through the morass of concepts and auxiliary statements that are needed to understand the desired results while it is initially unclear which of them are really needed and which ones can be dispensed with A further difficulty that one may encounter might be concerned with the form or language in which a given result is presented For example if someone knows the basics of group theory but does not know the theory of representations and a group theoretical result is formulated in the language of representation theory then that person is faced with the problem of translating this result into the language with which they are familiar etc Infinite Groups A Roadmap to Selected Classical Areas seeks to overcome this challenge The book covers a broad swath of the theory of infinite groups without giving proofs but with all the concepts and auxiliary results necessary for understanding such results In other words this book is an extended directory or a guide to some of the more established areas of infinite groups Features An excellent resource for a subject formerly lacking an accessible and in depth reference Suitable for graduate students PhD students and researchers working in group theory Introduces the reader to the most important methods ideas approaches and constructions in infinite group theory      Geometric Group Theory Down Under John Cossey,Charles F. Miller,Walter D. Neumann,Michael Shapiro,2011-05-02 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences Each volume is associated with a particular conference symposium or workshop These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments methods and applications      Bulletin (new Series) of the American Mathematical Society ,1895      **Group Theory, Statistics, and Cryptography** Alexei G. Myasnikov,Vladimir Shpilrain,2004 This volume consists of contributions by speakers at the AMS Special Session on Combinatorial and Statistical Group Theory held at New York University Readers will find a variety of contributions including survey papers on applications of group theory in cryptography research papers on various aspects of statistical group theory and papers on more traditional combinatorial group theory The book is suitable for graduate students and research mathematicians interested in group theory and its applications to cryptography

## **Hyperbolically Embedded Subgroups and Rotating Families in Groups Acting on Hyperbolic Spaces F.**

Dahmani, V. Guirardel, D. Osin, 2017-01-18 The authors introduce and study the notions of hyperbolically embedded and very rotating families of subgroups. The former notion can be thought of as a generalization of the peripheral structure of a relatively hyperbolic group while the latter one provides a natural framework for developing a geometric version of small cancellation theory. Examples of such families naturally occur in groups acting on hyperbolic spaces including hyperbolic and relatively hyperbolic groups mapping class groups and the Cremona group. Other examples can be found among groups acting geometrically on spaces fundamental groups of graphs of groups etc. The authors obtain a number of general results about rotating families and hyperbolically embedded subgroups although their technique applies to a wide class of groups it is capable of producing new results even for well studied particular classes. For instance the authors solve two open problems about mapping class groups and obtain some results which are new even for relatively hyperbolic groups. Groups St Andrews 1997 in Bath C. M. Campbell, E. F. Robertson, N. Ruskuc, G. C. Smith, 1999 *How Groups Grow* Avinoam Mann, 2011-12-15 This book introduces the subject of the growth of groups from scratch starting with basic definitions and culminating in the seminal results of Gromov and Grigorchuk and more. It is valuable reading for researchers from graduate students up to who want to be acquainted with contemporary group theory. *Encyclopaedia of Mathematics* Michiel Hazewinkel, 2013-12-01 This *ENCYCLOPAEDIA OF MATHEMATICS* aims to be a reference work for all parts of mathematics. It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977-1985. The annotated translation consists of ten volumes including a special index volume. There are three kinds of articles in this *ENCYCLOPAEDIA*. First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used. The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible. On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics. These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question. They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions. The second kind of article of medium length contains more detailed concrete problems results and techniques.

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