A. Yu. Ol'shanskii

Geometry of Defining Relations in Groups

Geometry Of Defining Relations In Groups Mathematics And Its Applications

R. I. Grigorchuk

Geometry Of Defining Relations In Groups Mathematics And Its Applications:

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,2012-12-06 Ht moi si favait su comment en reveniT One service mathematics hal rendered the je n y serais point aile human race It has put C   **Topics in Groups and Geometry** Tullio Ceccherini-Silberstein,Michele D'Adderio,2022-01-01 This book provides a detailed exposition of a wide range of topics in geometric group theory inspired by Gromov s pivotal work in the 1980s It includes classical theorems on nilpotent groups and solvable groups a fundamental study of the growth of groups a detailed look at asymptotic cones and a discussion of related subjects including filters and ultrafilters dimension theory hyperbolic geometry amenability the Burnside problem and random walks on groups The results are unified under the common theme of Gromov s theorem namely that finitely generated groups of polynomial growth are virtually nilpotent This beautiful result gave birth to a fascinating new area of research which is still active today The purpose of the book is to collect these naturally related results together in one place most of which are scattered throughout the literature some of them appearing here in book form for the first time In this way the connections between these topics are revealed providing a pleasant introduction to geometric group theory based on ideas surrounding Gromov s theorem The book will be of interest to mature undergraduate and graduate students in mathematics who are familiar with basic group theory and topology and who wish to learn more about geometric analytic and probabilistic aspects of infinite groups   *Combinatorial and Geometric Group Theory* Sean Cleary,2002 This volume grew out of two AMS conferences held at Columbia University New York NY and the Stevens Institute of Technology Hoboken NJ and presents articles on a wide variety of topics in group theory Readers will find a variety of contributions including a collection of over 170 open problems in combinatorial group theory three excellent survey papers on boundaries of hyperbolic groups on fixed points of free group automorphisms and on groups of automorphisms of compactRiemann surfaces and several original research papers that represent the diversity of current trends in combinatorial and geometric group theory The book is an excellent reference source for graduate students and research mathematicians interested in various aspects of group theory   **Groups, Languages and Geometry** Robert H. Gilman,1999 This volume contains the proceedings of the AMS IMS SIAM Joint Summer Research Conference on Geometric Group Theory and Computer Science

held at Mount Holyoke College South Hadley MA The conference was devoted to computational aspects of geometric group theory a relatively young area of research which has grown out of an influx of ideas from topology and computer science into combinatorial group theory The book reflects recent progress in this interesting new field Included are articles about insights from computer experiments applications of formal language theory decision problems and complexity problems There is also a survey of open questions in combinatorial group theory The volume will interest group theorists topologists and experts in automata and language theory **Rings with Polynomial Identities and Finite Dimensional Representations of Algebras** Eli Aljadeff,Antonio Giambruno,Claudio Procesi,Amitai Regev,2020-12-14 A polynomial identity for an algebra or a ring A A is a polynomial in noncommutative variables that vanishes under any evaluation in A A An algebra satisfying a nontrivial polynomial identity is called a PI algebra and this is the main object of study in this book which can be used by graduate students and researchers alike The book is divided into four parts Part 1 contains foundational material on representation theory and noncommutative algebra In addition to setting the stage for the rest of the book this part can be used for an introductory course in noncommutative algebra An expert reader may use Part 1 as reference and start with the main topics in the remaining parts Part 2 discusses the combinatorial aspects of the theory the growth theorem and Shirshov s bases Here methods of representation theory of the symmetric group play a major role Part 3 contains the main body of structure theorems for PI algebras theorems of Kaplansky and Posner the theory of central polynomials M Artin s theorem on Azumaya algebras and the geometric part on the variety of semisimple representations including the foundations of the theory of Cayley Hamilton algebras Part 4 is devoted first to the proof of the theorem of Razmyslov Kemer and Braun on the nilpotency of the nil radical for finitely generated PI algebras over Noetherian rings then to the theory of Kemer and the Specht problem Finally the authors discuss PI exponent and codimension growth This part uses some nontrivial analytic tools coming from probability theory The appendix presents the counterexamples of Golod and Shafarevich to the Burnside problem Groups St Andrews 2001 in Oxford: Volume 2 C. M. Campbell,E. F. Robertson,G. C. Smith,2003-11-06 This second volume of the two volume book contains selected papers from the conference Groups St Andrews 2001 in Oxford The articles are contributed by a number of leading researchers and cover a wide spectrum of modern group theory There are articles based on lecture courses given by five main speakers together with refereed survey and research articles The Groups St Andrews proceedings volumes are a snapshot of the state of the art in group theory and they often play an important role in future developments in the subject Combinatorial Algebra: Syntax and Semantics Mark V. Sapir,2014-10-06 Combinatorial Algebra Syntax and Semantics provides comprehensive account of many areas of combinatorial algebra It contains self contained proofs of more than 20 fundamental results both classical and modern This includes Golod Shafarevich and Olshanskii s solutions of Burnside problems Shirshov s solution of Kurosh s problem for PI rings Belov s solution of Specht s problem for varieties of rings Grigorchuk s solution of Milnor s problem Bass Guivarc h theorem about

growth of nilpotent groups Kleiman s solution of Hanna Neumann s problem for varieties of groups Adian s solution of von Neumann Day s problem Trahtman s solution of the road coloring problem of Adler Goodwyn and Weiss The book emphasize several universal tools such as trees subshifts uniformly recurrent words diagrams and automata With over 350 exercises at various levels of difficulty and with hints for the more difficult problems this book can be used as a textbook and aims to reach a wide and diversified audience No prerequisites beyond standard courses in linear and abstract algebra are required The broad appeal of this textbook extends to a variety of student levels from advanced high schoolers to undergraduates and graduate students including those in search of a Ph D thesis who will benefit from the Further reading and open problems sections at the end of Chapters 2 5 The book can also be used for self study engaging those beyond t he classroom setting researchers instructors students virtually anyone who wishes to learn and better understand this important area of mathematics   **Groups, Rings, Lie and Hopf Algebras** ,2003-03-31 The volume is almost entirely composed of the research and expository papers by the participants of the International Workshop Groups Rings Lie and Hopf Algebras which was held at the Memorial University of Newfoundland St John s NF Canada All four areas from the title of the workshop are covered In addition some chapters touch upon the topics which belong to two or more areas at the same time Audience The readership targeted includes researchers graduate and senior undergraduate students in mathematics and its applications   **Groups, Algebras and Identities** Eugene Plotkin,2019-03-19 A co publication of the AMS and Bar Ilan University This volume contains the proceedings of the Research Workshop of the Israel Science Foundation on Groups Algebras and Identities held from March 20 24 2016 at Bar Ilan University and The Hebrew University of Jerusalem Israel in honor of Boris Plotkin s 90th birthday The papers in this volume cover various topics of universal algebra universal algebraic geometry logic geometry and algebraic logic as well as applications of universal algebra to computer science geometric ring theory small cancellation theory and Boolean algebras   **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   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 **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 Teichmuller 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 co homological 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 **Groups St Andrews 1997 in Bath** C. M. Campbell,E. F. Robertson,N. Ruskuc,G. C. Smith,1999 Groups and Topological Dynamics Volodymyr Nekrashevych,2022-10-11 This book is devoted to group theoretic aspects of topological dynamics such as studying groups using their actions on topological spaces using group theory to study symbolic dynamics and other connections between group theory and dynamical systems One of the main applications of this approach to group theory is the study of asymptotic properties of groups such as growth and amenability The book presents recently developed techniques of studying groups of dynamical origin using the structure of their orbits and associated groupoids of germs applications of the iterated monodromy groups to hyperbolic dynamical systems topological full groups and their properties amenable groups groups of intermediate growth and other topics The book is suitable for graduate students and researchers interested in group theory transformations defined by automata topological and holomorphic dynamics and theory of topological groupoids Each chapter is supplemented by exercises of various levels of complexity Topological and Asymptotic Aspects of Group Theory R. I. Grigorchuk,2006 The articles in this volume are based on the talks given at two special sessions at the AMS Sectional meetings held in 2004 The articles cover various topological and asymptotic aspects of group theory such as hyperbolic and relatively hyperbolic groups asymptotic cones Thompson s group Nielsen fixed point theory homology groups acting on trees groups generated by finite automata iterated monodromy groups random walks on

finitely generated groups heat kernels and currents on free groups   **Geometric Group Theory** Mladen Bestvina,Michah Sageev,Karen Vogtmann,2014-12-24 Geometric group theory refers to the study of discrete groups using tools from topology geometry dynamics and analysis The field is evolving very rapidly and the present volume provides an introduction to and overview of various topics which have played critical roles in this evolution The book contains lecture notes from courses given at the Park City Math Institute on Geometric Group Theory The institute consists of a set of intensive short courses offered by leaders in the field designed to introduce students to exciting current research in mathematics These lectures do not duplicate standard courses available elsewhere The courses begin at an introductory level suitable for graduate students and lead up to currently active topics of research The articles in this volume include introductions to CAT 0 cube complexes and groups to modern small cancellation theory to isometry groups of general CAT 0 spaces and a discussion of nilpotent genus in the context of mapping class groups and CAT 0 groups One course surveys quasi isometric rigidity others contain an exploration of the geometry of Outer space of actions of arithmetic groups lectures on lattices and locally symmetric spaces on marked length spectra and on expander graphs Property tau and approximate groups This book is a valuable resource for graduate students and researchers interested in geometric group theory Titles in this series are co published with the Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price   *NonasSociative Algebra and Its Applications* R Costa,Jr., Henrique Guzzo,A. Grichkov,L.A. Peresi,2019-05-20 A collection of lectures presented at the Fourth International Conference on Nonassociative Algebra and its Applications held in Sao Paulo Brazil Topics in algebra theory include alternative Bernstein Jordan lie and Malcev algebras and superalgebras The volume presents applications to population genetics theory physics and more   Geometric Group Theory Cornelia Druţu,Michael Kapovich,2018-03-28 The key idea in geometric group theory is to study infinite groups by endowing them with a metric and treating them as geometric spaces This applies to many groups naturally appearing in topology geometry and algebra such as fundamental groups of manifolds groups of matrices with integer coefficients etc The primary focus of this book is to cover the foundations of geometric group theory including coarse topology ultralimits and asymptotic cones hyperbolic groups isoperimetric inequalities growth of groups amenability Kazhdan s Property T and the Haagerup property as well as their characterizations in terms of group actions on median spaces and spaces with walls The book contains proofs of several fundamental results of geometric group theory such as Gromov s theorem on groups of polynomial growth Tits s alternative Stallings s theorem on ends of groups Dunwoody s accessibility theorem the Mostow Rigidity Theorem and quasiisometric rigidity theorems of Tukia and Schwartz This is the first book in which geometric group theory is presented in a form accessible to advanced graduate students and young research mathematicians It fills a big gap in the literature and will be used by researchers in geometric group theory and its applications   *Dynamical Systems and Group Actions* Lewis Bowen,R. I. Grigorchuk,Yaroslav

Vorobets,2012 This volume contains cutting edge research from leading experts in ergodic theory dynamical systems and group actions A large part of the volume addresses various aspects of ergodic theory of general group actions including local entropy theory universal minimal spaces minimal models and rank one transformations Other papers deal with interval exchange transformations hyperbolic dynamics transfer operators amenable actions and group actions on graphs

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