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COMBINATORIAL GROUP THEORY:

PRESENTATIONS OF GROUPS IN TERMS
OF GENERATORS AND RELATIONS

Wilhelm Magnus · Abraham Karrass · Donald Solitar
Second Revised Edition

Combinatorial Group Theory

Ahmet Sinan Çevik



Combinatorial Group Theory:

Combinatorial Group Theory Wilhelm Magnus, Abraham Karrass, Donald Solitar, 2004-01-01 This seminal much cited account begins with a fairly elementary exposition of basic concepts and a discussion of factor groups and subgroups The topics of Nielsen transformations free and amalgamated products and commutator calculus receive detailed treatment The concluding chapter surveys word conjugacy and related problems adjunction and embedding problems and more Second revised 1976 edition

Combinatorial Group Theory Roger C. Lyndon, Paul E. Schupp, 2015-03-12 From the reviews This book defines the boundaries of the subject now called combinatorial group theory it is a considerable achievement to have concentrated a survey of the subject into 339 pages This includes a substantial and useful bibliography over 1100 items the book is a valuable and welcome addition to the literature containing many results not previously available in a book It will undoubtedly become a standard reference Mathematical Reviews AMS 1979

Combinatorial Group Theory and Topology. (AM-111), Volume 111 S. M. Gersten, John R. Stallings, 2016-03-02 Group theory and topology are closely related The region of their interaction combining the logical clarity of algebra with the depths of geometric intuition is the subject of Combinatorial Group Theory and Topology The work includes papers from a conference held in July 1984 at Alta Lodge Utah Contributors to the book include Roger Alperin Hyman Bass Max Benson Joan S Birman Andrew J Casson Marshall Cohen Donald J Collins Robert Craggs Michael Dyer Beno Eckmann Stephen M Gersten Jane Gilman Robert H Gilman Narain D Gupta John Hempel James Howie Roger Lyndon Martin Lustig Lee P Neuwirth Andrew J Nicas N Patterson John G Ratcliffe Frank Rimlinger Caroline Series John R Stallings C W Stark and A Royce Wolf

The History of Combinatorial Group Theory B. Chandler, W. Magnus, 2012-12-06 One of the pervasive phenomena in the history of science is the development of independent disciplines from the solution or attempted solutions of problems in other areas of science In the Twentieth Century the creation of specialties within the sciences has accelerated to the point where a large number of scientists in any major branch of science cannot understand the work of a colleague in another subdiscipline of his own science Despite this fragmentation the development of techniques or solutions of problems in one area very often contribute fundamentally to solutions of problems in a seemingly unrelated field Therefore an examination of this phenomenon of the formation of independent disciplines within the sciences would contribute to the understanding of their evolution in modern times We believe that in this context the history of combinatorial group theory in the late Nineteenth Century and the Twentieth Century can be used effectively as a case study It is a reasonably well defined independent specialty and yet it is closely related to other mathematical disciplines The fact that combinatorial group theory has so far not been influenced by the practical needs of science and technology makes it possible for us to use combinatorial group theory to exhibit the role of the intellectual aspects of the development of mathematics in a clearcut manner There are other features of combinatorial group theory which appear to make it a reasonable choice as the object of a historical study

Topics in Combinatorial Group

Theory Gilbert Baumslag, 1993-09-01 Combinatorial group theory is a loosely defined subject with close connections to topology and logic. With surprising frequency problems in a wide variety of disciplines including differential equations, automorphic functions and geometry have been distilled into explicit questions about groups typically of the following kind: Are the groups in a given class finite? e.g. the Burnside problem. Finitely generated. Finitely presented. What are the conjugates of a given element in a given group? What are the subgroups of that group? Is there an algorithm for deciding for every pair of groups in a given class whether they are isomorphic or not? The objective of combinatorial group theory is the systematic development of algebraic techniques to settle such questions. In view of the scope of the subject and the extraordinary variety of groups involved it is not surprising that no really general theory exists. These notes bridging the very beginning of the theory to new results and developments are devoted to a number of topics in combinatorial group theory and serve as an introduction to the subject on the graduate level.

Combinatorial Group Theory Benjamin Fine, 1990 Eighteen papers presented during a special AMS session designed to draw together researchers in various areas of infinite group theory especially combinatorial group theory to share methods and results. *Algebra VII* D.J. Collins, R.I. Grigorchuk, P.F. Kurchanov, H. Zieschang, 2013-12-01 From the reviews The book under review consists of two monographs on geometric aspects of group theory. Together these two articles form a wide ranging survey of combinatorial group theory with emphasis very much on the geometric roots of the subject. This will be a useful reference work for the expert as well as providing an overview of the subject for the outsider or novice. Many different topics are described and explored with the main results presented but not proved. This allows the interested reader to get the flavour of these topics without becoming bogged down in detail. Both articles give comprehensive bibliographies so that it is possible to use this book as the starting point for a more detailed study of a particular topic of interest. *Bulletin of the London Mathematical Society* 1996 Algorithmic and Combinatorial Algebra L.A. Bokut', G.P.. Kukin, 1994-05-31 Even three decades ago the words combinatorial algebra contrasting for instance the words combinatorial topology were not a common designation for some branch of mathematics. The collocation combinatorial group theory seems to appear first as the title of the book by A. Karrass, W. Magnus and D. Solitar 182 and later on it served as the title of the book by R.C. Lyndon and P. Schupp 247. Nowadays specialists do not question the existence of combinatorial algebra as a special algebraic activity. The activity is distinguished not only by its objects of research that are effectively given to some extent but also by its methods effective to some extent. To be more exact we could approximately define the term combinatorial algebra for the purposes of this book as follows. So we call a part of algebra dealing with groups, semi groups, associative algebras, Lie algebras and other algebraic systems which are given by generators and defining relations in the first and particular place free groups, semigroups, algebras etc. a part in which we study universal constructions viz free products, LINN extensions etc. and finally a part where specific methods such as the Composition Method in other words the Diamond Lemma see 49 are applied. Surely the above explanation is far from

covering the full scope of the term compare the prefaces to the books mentioned above

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 compact Riemann 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

Combinatorial Group Theory, Discrete Groups, and Number Theory Benjamin Fine, Anthony M. Gaglione, Dennis Spellman, 2006 This volume consists of contributions by participants and speakers at two conferences The first was entitled Combinatorial Group Theory Discrete Groups and Number Theory and was held at Fairfield University December 8 9 2004 It was in honor of Professor Gerhard Rosenberger's sixtieth birthday The second was the AMS Special Session on Infinite Group Theory held at Bard College October 8 9 2005 The papers in this volume provide a very interesting mix of combinatorial group theory discrete group theory and ring theory as well as contributions to noncommutative algebraic cryptography

Combinatorial Group Theory Ilya Kapovich, Alexei Myasnikov, Vladimir Shpilrain, 2026-04-08 This is an annotated collection of over 200 open problems in combinatorial group theory One can say that most of the problems are closer in spirit to the purely combinatorial group theory However the authors included several problems with geometric flavor where they felt this was natural Approximately 20 years ago a new direction in group theory began to emerge at the interface with theoretical computer science In recognition of this the given collection includes problems that are not only significant in combinatorial group theory but also have direct relevance to this emerging area such as the Post correspondence problem for groups which is gaining momentum in contemporary research The flagship section includes problems about free groups these have been at the center of combinatorial group theory for over a century and they are getting ever more popular due to newly discovered connections with the theoretical computer science mentioned above Other classes of groups that the authors cover include hyperbolic groups solvable groups groups of matrices and others The target audience of the book is very broad from PhD students to senior researchers

Combinatorial Group Theory Daniel E. Cohen, 1989-08-17 In this book the author aims to show the value of using topological methods in combinatorial group theory

Combinatorial Group Theory Wilhelm Magnus, Abraham Karrass, Donald Solitar, 1976

Classical Topology and Combinatorial Group Theory John Stillwell, 2012-12-06 In recent years many students have been introduced to topology in high school mathematics Having met the Mobius band the seven bridges of Königsberg Euler's polyhedron formula and knots the student is led to expect that these picturesque ideas will come to full flower in university topology courses What a disappointment undergraduate topology proves to be In most

institutions it is either a service course for analysts on abstract spaces or else an introduction to homological algebra in which the only geometric activity is the completion of commutative diagrams Pictures are kept to a minimum and at the end the student still does not understand the simplest topological facts such as the reason why knots exist In my opinion a well balanced introduction to topology should stress its intuitive geometric aspect while admitting the legitimate interest that analysts and algebraists have in the subject At any rate this is the aim of the present book In support of this view I have followed the historical develop ment where practicable since it clearly shows the influence of geometric thought at all stages This is not to claim that topology received its main impetus from geometric recrea ions like the seven bridges rather it resulted from the visualization of problems from other parts of mathematics complex analysis Riemann mechanics poincare and group theory Oehn It is these connections to other parts of mathematics which make topology an important as well as a beautiful subject

Applications of Group Theory to Combinatorics Jack Koolen, Jin Ho Kwak, Ming-Yao Xu, 2008-07-02

Applications of Group Theory to Combinatorics contains 11 survey papers from international experts in combinatorics group theory and combinatorial topology The contributions cover topics from quite a diverse spectrum such as design theory Belyi functions group theory transitive graphs regular maps and Hurwitz problems and present the state

Combinatorial Methods Alexander Mikhalev, Vladimir Shpilrain, Jie-tai Yu, 2004 The main purpose of this book is to show how ideas from combinatorial group theory have spread to two other areas of mathematics the theory of Lie algebras and affine algebraic geometry Some of these ideas in turn came to combinatorial group theory from low dimensional topology in the beginning of the 20th Century This book is divided into three fairly independent parts Part I provides a brief exposition of several classical techniques in combinatorial group theory namely methods of Nielsen Whitehead and Tietze Part II contains the main focus of the book Here the authors show how the aforementioned techniques of combinatorial group theory found their way into affine algebraic geometry a fascinating area of mathematics that studies polynomials and polynomial mappings Part III illustrates how ideas from combinatorial group theory contributed to the theory of free algebras The focus here is on Schreier varieties of algebras a variety of algebras is said to be Schreier if any subalgebra of a free algebra of this variety is free in the same variety of algebras

Combinatorial Group Theory Daniel E. Cohen, 1989 *LECTURE NOTES - I Some topics of the COMBINATORIAL GROUP THEORY* Ahmet Sinan Çevik,

Combinatorial group theory R. C. Lyndon, Paul E. Schupp, 1977

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

This book delves into Combinatorial Group Theory. Combinatorial Group Theory is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Combinatorial Group Theory, encompassing both the fundamentals and more intricate discussions.

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The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Combinatorial Group Theory.

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