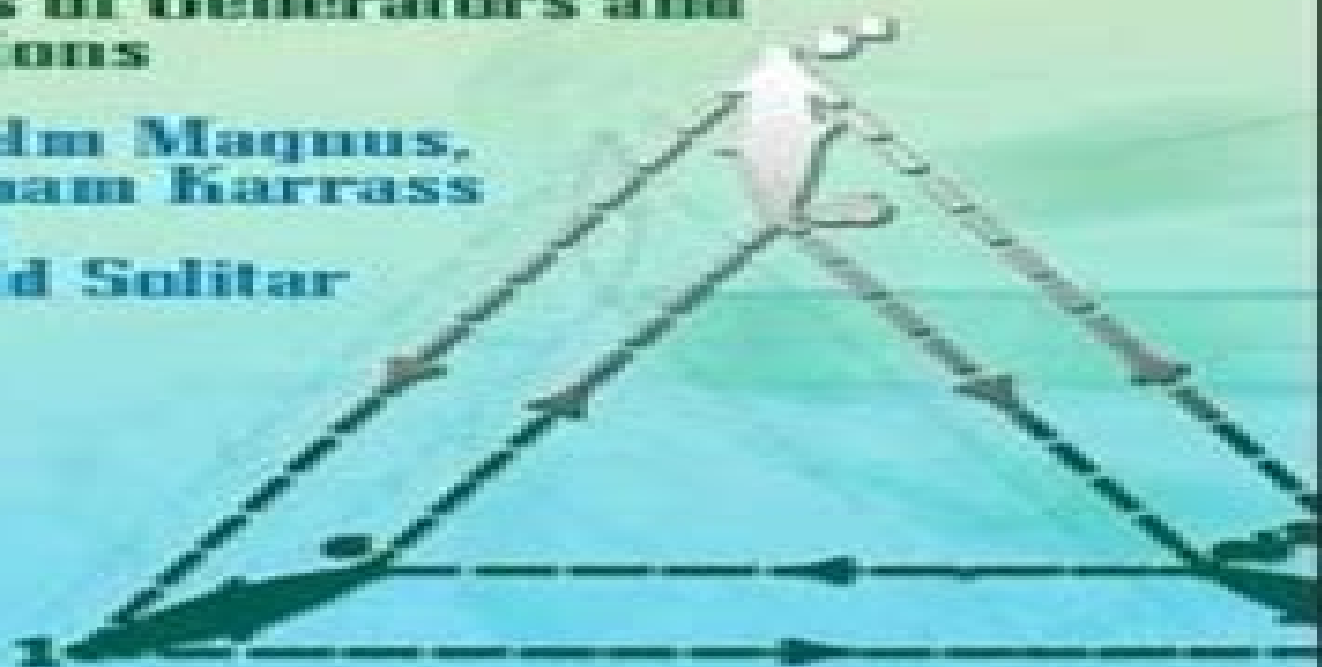


# Combinatorial Group Theory

**Presentations of Groups in  
Terms of Generators and  
Relations**

**Wilhelm Magnus,  
Abraham Karrass  
and  
Donald Solitar**



# Combinatorial Group Theory Combinatorial Group Theory

**John Stillwell**



## **Combinatorial Group Theory 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, 2001-01-12 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 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

**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

*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

*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 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.

*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 Möbius 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 development 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 recreations like the seven bridges; rather it resulted from the visualization of problems from other parts of mathematics: complex analysis, Riemann mechanics, Poincaré

and group theory Dehn It is these connections to other parts of mathematics which make topology an important as well as a beautiful subject

*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** 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

**Combinatorial Group Testing and Its Applications** Dingzhu Du, Frank K. Hwang, Frank Hwang, 2000 Group testing has been used in medical chemical and electrical testing coding drug screening pollution control multiaccess channel management and recently in data verification clone library screening and AIDS testing The mathematical model can be either combinatorial or probabilistic This book summarizes all important results under the combinatorial model and demonstrates their applications in real problems Some other search problems including the famous counterfeit coins problem are also studied in depth There are two reasons for publishing a second edition of this book The first is the usual need to update the text after six years and correct errors The second and more important reason is to accommodate the recent sudden growth of interest in applying the idea of group testing to clone library screening This development is much more than just a new application since the new application brings with it new objectives which require a new twist of theory It also embraces the growing importance of two topics nonadaptive algorithms and error tolerance Two new chapters one on clone library screening and the other on error tolerance have been added Also included is a new chapter on counterfeit coins the most famous search problem historically which recently drew on an unexpected connection to some deep mathematical theory to yield new results Finally the chapters have been reorganized into parts to provide focuses and perspectives

*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

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**

**Two-Dimensional Homotopy and Combinatorial Group Theory** Cynthia Hog-Angeloni, Wolfgang Metzler, Allan J. Sieradski, 1993-12-09 Basic work on two dimensional homotopy theory dates back to K Reidemeister and J H C Whitehead Much work in this area has been done since then and this book considers the current state of knowledge in all the aspects of the subject The editors start with introductory chapters on low dimensional topology covering both the geometric and algebraic sides of the subject the latter including crossed modules Reidemeister Peiffer identities and a concrete and modern discussion of Whitehead s algebraic classification of 2 dimensional homotopy types Further chapters have been skilfully selected and woven together to form a coherent picture The latest algebraic results and their applications to 3 and 4 dimensional manifolds are dealt with The geometric nature of the subject is illustrated to the full by over 100 diagrams Final chapters summarize and contribute to the present status of the conjectures of Zeeman Whitehead and Andrews Curtis No other book covers all these topics Some of the material here has been used in courses making this book valuable for anyone with an interest in two dimensional homotopy theory from graduate students to research workers

*Topology and Combinatorial Group Theory* Paul Latiolais, 2014-09-01

**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

*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

**Combinatorial Group Theory** Daniel E. Cohen, 1989

**LECTURE NOTES - I Some topics of the COMBINATORIAL GROUP THEORY** Ahmet Sinan Çevik,

*Topology and Combinatorial Group Theory* Paul Latiolais, 2006-11-14 This book demonstrates the lively interaction between algebraic topology very low dimensional topology and combinatorial group theory Many of the ideas presented are still in their infancy and it is hoped that the work

here will spur others to new and exciting developments Among the many techniques discussed are the use of obstruction groups to distinguish certain exact sequences and several graph theoretic techniques with applications to the theory of groups     Algorithms and Classification in Combinatorial Group Theory Gilbert Baumslag, Charles F. III Miller, 2012-12-06  
The papers in this volume are the result of a workshop held in January 1989 at the Mathematical Sciences Research Institute  
Topics covered include decision problems finitely presented simple groups combinatorial geometry and homology and automatic groups and related topics

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