



A. A. Ivanov
M. W. Liebeck
J. Saxl
Editors

Groups, Combinatorics and Geometry

D U R H A M 2 0 0 1

Groups And Combinatorics

Gilbert Baumslag



Groups And Combinatorics:

Probabilistic Group Theory, Combinatorics, and Computing Alla Detinko, Dane Flannery, Eamonn O'Brien, 2013-01-13 Probabilistic Group Theory Combinatorics and Computing is based on lecture courses held at the Fifth de Br n Workshop in Galway Ireland in April 2011 Each course discusses computational and algorithmic aspects that have recently emerged at the interface of group theory and combinatorics with a strong focus on probabilistic methods and results The courses served as a forum for devising new strategic approaches and for discussing the main open problems to be solved in the further development of each area The book represents a valuable resource for advanced lecture courses Researchers at all levels are introduced to the main methods and the state of the art leading up to the very latest developments One primary aim of the book's approach and design is to enable postgraduate students to make immediate use of the material presented

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 Groups Combinatorics & Geometry A. A. Ivanov, Martin W. Liebeck, J. Saxl, 2003 Over the past 20 years the theory of groups in particular simple groups finite and algebraic has influenced a number of diverse areas of mathematics Such areas include topics where groups have been traditionally applied such as algebraic combinatorics finite geometries Galois theory and permutation groups as well as several more recent developments **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

Algebraic Combinatorics and Quantum Groups Naihuan Jing, 2003 Algebraic combinatorics has evolved into one of the most active areas of mathematics Its developments have become more interactive with not only its traditional field representation theory but also geometry mathematical physics and harmonic analysis This book presents articles from some of the key contributors in the area It covers Hecke algebras Hall algebras the Macdonald polynomial and its deviations and their relations with other fields **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

Groups, Combinatorics and Geometry Martin W. Liebeck, 1992-09-10 This volume contains a collection of papers on the subject of the classification of finite simple groups

Groups, Combinatorics & Geometry A. A. Ivanov, Martin W. Liebeck, Jan Saxl, 2003 This book contains the proceedings of the L M S Durham Symposium on Groups Geometry and Combinatorics July 16-26 2001

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

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

Combinatorial and Geometric Group Theory, Edinburgh 1993 Andrew J. Duncan, N. D. Gilbert, James Howie, 1995 The

ICMS Workshop on Geometric and Combinatorial Methods in Group Theory held at Heriot Watt University in 1993 brought together some of the leading research workers in the subject. Some of the survey articles and contributed papers presented at the meeting are collected in this volume. The former cover a number of areas of current interest and include papers by S M Gersten, R I Grigorchuk, P H Kropholler, A Lubotzky, A A Razborov and E Zelmanov. The contributed articles all refereed range over a wide number of topics in combinatorial and geometric group theory and related topics. The volume represents a summary of the state of knowledge of the field and as such will be indispensable to all research workers in the area.

Topics in Combinatorial Group Theory Gilbert Baumslag, 2012-12-06 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.

Representation Theory of Symmetric Groups Pierre-Loic Meliot, 2017-05-12 Representation Theory of Symmetric Groups is the most up to date abstract algebra book on the subject of symmetric groups and representation theory. Utilizing new research and results this book can be studied from a combinatorial, algorithmic or algebraic viewpoint. This book is an excellent way of introducing today's students to representation theory of the symmetric groups namely classical theory. From there the book explains how the theory can be extended to other related combinatorial algebras like the Iwahori-Hecke algebra. In a clear and concise manner the author presents the case that most calculations on symmetric group can be performed by utilizing appropriate algebras of functions. Thus the book explains how some Hopf algebras, symmetric functions and generalizations can be used to encode most of the combinatorial properties of the representations of symmetric groups. Overall the book is an innovative introduction to representation theory of symmetric groups for graduate students and researchers seeking new ways of thought.

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

Surveys in Combinatorics, 1995 Peter Rowlinson, 1995 The fifteenth British Combinatorial Conference took place in July 1995 at the University of Stirling This volume consists of the papers presented by the invited lecturers at the meeting and provides an up to date survey of current research activity in several areas of combinatorics and its applications These include distance regular graphs combinatorial designs coding theory spectra of graphs and randomness and computation The articles give an overview of combinatorics that will be extremely useful to both mathematicians and computer scientists

Symmetric and Alternating Groups as Monodromy Groups of Riemann Surfaces I: Generic Covers and Covers with Many Branch Points Robert M. Guralnick, John Shareshian, 2007 Considers indecomposable degree n covers of Riemann surfaces with monodromy group an alternating or symmetric group of degree d The authors show that if the cover has five or more branch points then the genus grows rapidly with n unless either $d \mid n$ or the curves have genus zero there are precisely five branch points and $n \leq d^2$

Information Security, Coding Theory and Related Combinatorics Dean Crnković, Vladimir Tonchev, 2011 Published in cooperation with NATO Emerging Security Challenges Division T p *Groups of Lie Type and Their Geometries* William M. Kantor, 1995-01-12 Silk Hope NC is a buoyant and moving parable in which two good women find among the hidden forgotten virtues of the past a sustenance to carry them into the future *Groups* T. W. Müller, 2004-04-08 In 1999 a number of eminent mathematicians were invited to Bielefeld to present lectures at a conference on topological combinatorial and arithmetic aspects of infinite groups The present volume consists of survey and research articles invited from participants in this conference Topics covered include topological finiteness properties of groups Kac Moody groups the theory of Euler characteristics the connection between groups formal languages and automata the Magnus Nielsen method for one relator groups atomic and just infinite groups topology in permutation groups probabilistic group theory the theory of subgroup growth hyperbolic lattices in dimension three generalised triangle groups and reduction theory All contributions are written in a relaxed and attractive style accessible not only to specialists but also to good graduate and post graduate students who will find inspiration for a number of basic research projects at various levels of technical difficulty

Representations of Solvable Groups Olaf Manz, Thomas R. Wolf, 1993-09-16 Representation theory plays an important role in algebra and in this book Manz and Wolf concentrate on that part of the theory which relates to solvable groups The authors begin by studying modules over finite fields which arise naturally as chief factors of solvable groups The information obtained can then be applied to infinite modules and in particular to character theory ordinary and Brauer of solvable groups The authors include proofs of Brauer's height zero conjecture and the Alperin McKay conjecture for solvable groups Gluck's permutation lemma and Huppert's classification of solvable two transitive permutation groups which are essentially results about finite modules of finite groups play important roles in the applications and a new proof is given of

the latter Researchers into group theory representation theory or both will find that this book has much to offer

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