

DISCRETE MATHEMATICS AND ITS APPLICATIONS
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HANDBOOK OF COMPUTATIONAL GROUP THEORY

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Handbook Of Computational Group Theory Handbook Of Computational Group Theory

Walter D. Wallis, John C. George



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Handbook of Computational Group Theory Derek F. Holt, Bettina Eick, Eamonn A. O'Brien, 2005-01-13 The origins of computation group theory CGT date back to the late 19th and early 20th centuries Since then the field has flourished particularly during the past 30 to 40 years and today it remains a lively and active branch of mathematics The Handbook of Computational Group Theory offers the first complete treatment of all the fundame Handbook of Computational Group Theory Derek F. Holt, Bettina Eick, Eamonn A. O'Brien, 2005-01-13 The origins of computation group theory CGT date back to the late 19th and early 20th centuries Since then the field has flourished particularly during the past 30 to 40 years and today it remains a lively and active branch of mathematics The Handbook of Computational Group Theory offers the first complete treatment of all the fundamental methods and algorithms in CGT presented at a level accessible even to advanced undergraduate students It develops the theory of algorithms in full detail and highlights the connections between the different aspects of CGT and other areas of computer algebra While acknowledging the importance of the complexity analysis of CGT algorithms the authors primary focus is on algorithms that perform well in practice rather than on those with the best theoretical complexity Throughout the book applications of all the key topics and algorithms to areas both within and outside of mathematics demonstrate how CGT fits into the wider world of mathematics and science The authors include detailed pseudocode for all of the fundamental algorithms and provide detailed worked examples that bring the theorems and algorithms to life *Computational Group Theory and the Theory of Groups* Luise-Charlotte Kappe, Arturo Magidin, Robert Fitzgerald Morse, 2008 The power of general purpose computational algebra systems running on personal computers has increased rapidly in recent years For mathematicians doing research in group theory this means a growing set of sophisticated computational tools are now available for their use in developing new theoretical results This volume consists of contributions by researchers invited to the AMS Special Session on Computational Group Theory held in March 2007 The main focus of the session was on the application of Computational Group Theory CGT to a wide range of theoretical aspects of group theory The articles in this volume provide a variety of examples of how these computer systems helped to solve interesting theoretical problems within the discipline such as constructions of finite simple groups classification of p groups via coclass representation theory and constructions involving free nilpotent groups The volume also includes an article by R F Morse highlighting applications of CGT in group theory and two survey articles Graduate students and researchers interested in various aspects of group theory will find many examples of Computational Group Theory helping research and will recognize it as yet another tool at their disposal **BOOK JACKET** **Computational Group Theory and the Theory of Groups, II** Luise-Charlotte Kappe, Arturo Magidin, Robert Fitzgerald Morse, 2010-04-08 This volume consists of contributions by researchers who were invited to the Harlaxton Conference on Computational Group Theory and Cohomology held in August of 2008 and to the AMS Special Session on Computational Group Theory held in October 2008 This volume showcases

examples of how Computational Group Theory can be applied to a wide range of theoretical aspects of group theory Among the problems studied in this book are classification of p groups covers of Lie groups resolutions of Bieberbach groups and the study of the lower central series of free groups This volume also includes expository articles on the probabilistic zeta function of a group and on enumerating subgroups of symmetric groups Researchers and graduate students working in all areas of Group Theory will find many examples of how Computational Group Theory helps at various stages of the research process from developing conjectures through the verification stage These examples will suggest to the mathematician ways to incorporate Computational Group Theory into their own research endeavors

Computational and Combinatorial Group Theory and Cryptography Benjamin Fine, Delaram Kahrobaei, Gerhard Rosenberger, 2012 This volume contains the proceedings of the AMS Special Session on Computational Algebra Groups and Applications held April 30 May 1 2011 at the University of Nevada Las Vegas Nevada and the AMS Special Session on the Mathematical Aspects of Cryptography and Cyber Security held September 10 11 2011 at Cornell University Ithaca New York Over the past twenty years combinatorial and infinite group theory has been energized by three developments the emergence of geometric and asymptotic group theory the development of algebraic geometry over groups leading to the solution of the Tarski problems and the development of group based cryptography These three areas in turn have had an impact on computational algebra and complexity theory The papers in this volume both survey and research exhibit the tremendous vitality that is at the heart of group theory in the beginning of the twenty first century as well as the diversity of interests in the field

Combinatorial and Geometric Group Theory Oleg Bogopolski, Inna Bumagin, Olga Kharlampovich, Enric Ventura, 2011-01-28 This volume assembles several research papers in all areas of geometric and combinatorial group theory originated in the recent conferences in Dortmund and Ottawa in 2007 It contains high quality refereed articles developing new aspects of these modern and active fields in mathematics It is also appropriate to advanced students interested in recent results at a research level

Complexity and Randomness in Group Theory Frédérique Bassino, Ilya Kapovich, Markus Lohrey, Alexei Miasnikov, Cyril Nicaud, Andrey Nikolaev, Igor Rivin, Vladimir Shpilrain, Alexander Ushakov, Pascal Weil, 2020-06-08 Detailed Description

Groups--St. Andrews 1981 C. M. Campbell, E. F. Robertson, 1982 This book contains selected papers from the international conference Groups St Andrews 1981 which was held at the University of St Andrews in July August 1981 Its contents reflect the main topics of the conference combinatorial group theory infinite groups general groups finite or infinite computational group theory Four courses each providing a five lecture survey given by J Neubuser Aachen D J S Robinson Illinois S J Tobin Galway and J Wiengold Cardiff have been expanded into articles forming the first part of the book The second part consists of surveys and research articles written by other conference participants More than two thirds of the book is composed of survey articles providing a remarkably clear and up to date picture of those areas of group theory The articles which comprise this book together with their extensive bibliographies will prove an invaluable tool to researchers in

group theory and in addition their detailed expositions make them very suitable for relevant postgraduate courses publisher description *Applications of Group Theory in Cryptography* Delaram Kahrobaei, Ramon Flores, Marialaura Noce, Maggie E. Habeeb, Christopher Battarbee, 2024-03-25 This book is intended as a comprehensive treatment of group based cryptography accessible to both mathematicians and computer scientists with emphasis on the most recent developments in the area To make it accessible to a broad range of readers the authors started with a treatment of elementary topics in group theory combinatorics and complexity theory as well as providing an overview of classical public key cryptography Then some algorithmic problems arising in group theory are presented and cryptosystems based on these problems and their respective cryptanalyses are described The book also provides an introduction to ideas in quantum cryptanalysis especially with respect to the goal of post quantum group based cryptography as a candidate for quantum resistant cryptography The final part of the book provides a description of various classes of groups and their suitability as platforms for group based cryptography The book is a monograph addressed to graduate students and researchers in both mathematics and computer science

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 *Algorithmic Problems of Group Theory, Their Complexity, and Applications to Cryptography* Delaram Kahrobaei, Vladimir Shpilrain, 2015-02-25 This volume contains the proceedings of the AMS Special Session on Algorithmic Problems of Group Theory and Their Complexity held January 9 10 2013 in San Diego CA and the AMS Special Session on Algorithmic Problems of Group Theory and Applications to Information Security held April 6 7 2013 at Boston College Chestnut Hill MA Over the past few years the field of group based cryptography has attracted attention from both group theorists and cryptographers The new techniques inspired by algorithmic problems in non commutative group theory and their complexity have offered promising ideas for developing new cryptographic protocols The papers in this volume cover algorithmic group theory and applications to cryptography

Computer Algebra and Materials Physics Akihito Kikuchi, 2018-06-26 This book is intended as an introductory lecture in material physics in which the modern computational group theory and the electronic structure calculation are in collaboration The first part explains how to use computer algebra for applications in solid state simulation based on the GAP computer algebra package Computer algebra enables us to easily obtain various group theoretical properties such as the representations character tables and subgroups Furthermore it offers a new perspective on material design which could be executed in a mathematically rigorous and systematic way The second part then analyzes the relation between the structural symmetry and the electronic structure in C60 as an example of a system without periodicity The principal object of the study was to illustrate the hierarchical change in the quantum physical properties of the molecule which correlates to the reduction

in the symmetry as it descends down in the ladder of subgroups The book also presents the computation of the vibrational modes of the C60 by means of the computer algebra In order to serve the common interests of researchers the details of the computations the required initial data and the small programs developed for the purpose are explained in as much detail as possible

Finitely Presented Groups Volker Diekert, Martin Kreuzer, 2024-10-07 This book contains surveys and research articles on the state of the art in finitely presented groups for researchers and graduate students Overviews of current trends in exponential groups and of the classification of finite triangle groups and finite generalized tetrahedron groups are complemented by new results on a conjecture of Rosenberger and an approximation theorem A special emphasis is on algorithmic techniques and their complexity both for finitely generated groups and for finite $\mathbb{Z}$ algebras including explicit computer calculations highlighting important classical methods A further chapter surveys connections to mathematical logic in particular to universal theories of various classes of groups and contains new results on countable elementary free groups Applications to cryptography include overviews of techniques based on representations of p groups and of non commutative group actions Further applications of finitely generated groups to topology and artificial intelligence complete the volume All in all leading experts provide up to date overviews and current trends in combinatorial group theory and its connections to cryptography and other areas

Handbook of Mathematical Induction David S. Gunderson, 2014-01-09 Handbook of Mathematical Induction Theory and Applications shows how to find and write proofs via mathematical induction This comprehensive book covers the theory the structure of the written proof all standard exercises and hundreds of application examples from nearly every area of mathematics In the first part of the book the author discuss

Polyhedral Computation David Avis, David Bremner, Antoine Deza, **A Student's Guide to the Study, Practice, and Tools of**

Modern Mathematics Donald Bindner, 2010-11-29 A Student's Guide to the Study Practice and Tools of Modern Mathematics provides an accessible introduction to the world of mathematics It offers tips on how to study and write mathematics as well as how to use various mathematical tools from LaTeX and Beamer to Mathematica and Maple to MATLAB and R Along with a color insert the text include

New Frontiers in Number Theory and Applications Jordi Guàrdia, Nicușor Minculete, Diana Savin, Montserrat Vela, Abdelkader Zekhnini, 2024-05-27 This contributed volume presents recent advances as well as new directions in number theory and its applications Algebraic and analytic number theory are the main focus with chapters showing how these areas are rapidly evolving By gathering authors from over seven countries readers will gain an international perspective on the current state of research as well as potential avenues to explore Specific topics covered include Algebraic Number Theory Elliptic curves and Cryptography Hopf Galois theory Analytic and elementary number theory and applications New Frontiers in Number Theory and Applications will appeal to researchers interested in gaining a global view of current research in number theory

Algebraic Number Theory Richard A. Mollin, 2011-01-05 Bringing the material up to date to reflect modern applications this second edition has been completely

rewritten and reorganized to incorporate a new style methodology and presentation It offers a more complete and involved treatment of Galois theory a more comprehensive section on Pollard s cubic factoring algorithm and more detailed explanations of proofs to provide a sound understanding of challenging material This edition also studies binary quadratic forms and compares the ideal and form class groups The text includes convenient cross referencing a comprehensive index and numerous exercises and applications

Graph Polynomials Yongtang Shi,Matthias Dehmer,Xueliang Li,Ivan Gutman,2016-11-25 This book covers both theoretical and practical results for graph polynomials Graph polynomials have been developed for measuring combinatorial graph invariants and for characterizing graphs Various problems in pure and applied graph theory or discrete mathematics can be treated and solved efficiently by using graph polynomials Graph polynomials have been proven useful areas such as discrete mathematics engineering information sciences mathematical chemistry and related disciplines

Introduction to Combinatorics Walter D. Wallis,John C. George,2016-12-12 What Is Combinatorics Anyway Broadly speaking combinatorics is the branch of mathematics dealing with different ways of selecting objects from a set or arranging objects It tries to answer two major kinds of questions namely counting questions how many ways can a selection or arrangement be chosen with a particular set of properties and structural questions does there exist a selection or arrangement of objects with a particular set of properties The authors have presented a text for students at all levels of preparation For some this will be the first course where the students see several real proofs Others will have a good background in linear algebra will have completed the calculus stream and will have started abstract algebra The text starts by briefly discussing several examples of typical combinatorial problems to give the reader a better idea of what the subject covers The next chapters explore enumerative ideas and also probability It then moves on to enumerative functions and the relations between them and generating functions and recurrences Important families of functions or numbers and then theorems are presented Brief introductions to computer algebra and group theory come next Structures of particular interest in combinatorics posets graphs codes Latin squares and experimental designs follow The authors conclude with further discussion of the interaction between linear algebra and combinatorics Features Two new chapters on probability and posets Numerous new illustrations exercises and problems More examples on current technology use A thorough focus on accuracy Three appendices sets induction and proof techniques vectors and matrices and biographies with historical notes Flexible use of MapleTM and MathematicaTM

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