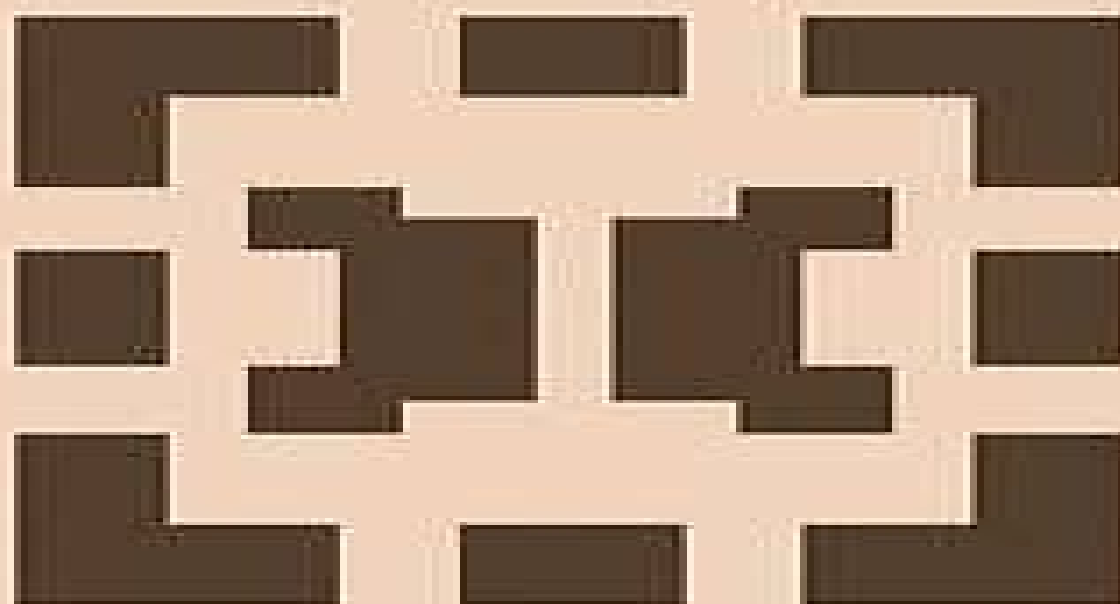


Mathematics and Its Applications

L.A. Bokut' and G.P. Kukin

**Algorithmic and
Combinatorial Algebra**



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Algorithmic And Combinatorial Algebra

Gilbert Baumslag, Charles F. III Miller



Algorithmic And Combinatorial Algebra:

Algorithmic and Combinatorial Algebra L a Bokut', G P Kukin, 1994-05-31 Algorithmic Combinatorics: Enumerative Combinatorics, Special Functions and Computer Algebra Veronika Pillwein, Carsten Schneider, 2020-09-28 The book is centered around the research areas of combinatorics special functions and computer algebra What these research fields share is that many of their outstanding results do not only have applications in Mathematics but also other disciplines such as computer science physics chemistry etc A particular charm of these areas is how they interact and influence one another For instance combinatorial or special functions techniques have motivated the development of new symbolic algorithms In particular first proofs of challenging problems in combinatorics and special functions were derived by making essential use of computer algebra This book addresses these interdisciplinary aspects Algorithmic aspects are emphasized and the corresponding software packages for concrete problem solving are introduced Readers will range from graduate students researchers to practitioners who are interested in solving concrete problems within mathematics and other research disciplines Algorithmic Algebraic Combinatorics and Gröbner Bases Mikhail Klin, Gareth A. Jones, Aleksandar Jurisic, Mikhail Muzychuk, Ilia Ponomarenko, 2009-12-24 This collection of tutorial and research papers introduces readers to diverse areas of modern pure and applied algebraic combinatorics and finite geometries There is special emphasis on algorithmic aspects and the use of the theory of Gröbner bases **Algorithmic and Experimental Methods in Algebra, Geometry, and Number Theory** Gebhard Böckle, Wolfram Decker, Gunter Malle, 2018-03-22 This book presents state of the art research and survey articles that highlight work done within the Priority Program SPP 1489 Algorithmic and Experimental Methods in Algebra Geometry and Number Theory which was established and generously supported by the German Research Foundation DFG from 2010 to 2016 The goal of the program was to substantially advance algorithmic and experimental methods in the aforementioned disciplines to combine the different methods where necessary and to apply them to central questions in theory and practice Of particular concern was the further development of freely available open source computer algebra systems and their interaction in order to create powerful new computational tools that transcend the boundaries of the individual disciplines involved The book covers a broad range of topics addressing the design and theoretical foundations implementation and the successful application of algebraic algorithms in order to solve mathematical research problems It offers a valuable resource for all researchers from graduate students through established experts who are interested in the computational aspects of algebra geometry and or number theory **Algorithms in Combinatorial Design Theory** C.J. Colbourn, M.J. Colbourn, 1985-01-01 The scope of the volume includes all algorithmic and computational aspects of research on combinatorial designs Algorithmic aspects include generation isomorphism and analysis techniques both heuristic methods used in practice and the computational complexity of these operations The scope within design theory includes all aspects of block designs Latin squares and their variants pairwise balanced designs and projective planes and

related geometries Applied Algebra, Algebraic Algorithms and Error-Correcting Codes Llorenç Huguet, 1989-06-14 The present volume contains the proceedings of the AAECC 5 Conference held at Menorca Balearic Islands June 15 19 1987 The annual International AAECC Conference covers a range of topics related to Applied Algebra Error Correcting Codes Finite Algebraic Structures Computational Methods and Complexity in Algebra and Geometry For the AAECC 5 Conference 73 papers were presented Out of these thirty papers were selected for publication in the proceedings They deal with topics such as error correcting codes concerning problems of covering radius decoding methods expert systems and general results in coding theory computational algebra Gröbner basis complexity finite algebra and graphs The proceedings of the 6th conference are published as Vol 357 of the Lecture Notes in Computer Science *Algorithmic and Quantitative Real Algebraic Geometry* Saugata Basu, 2003 Algorithmic and quantitative aspects in real algebraic geometry are becoming increasingly important areas of research because of their roles in other areas of mathematics and computer science The papers in this volume collectively span several different areas of current research The articles are based on talks given at the DIMACS Workshop on Algorithmic and Quantitative Aspects of Real Algebraic Geometry Topics include deciding basic algebraic properties of real semi algebraic sets application of quantitative results in real algebraic geometry towards investigating the computational complexity of various problems algorithmic and quantitative questions in real enumerative geometry new approaches towards solving decision problems in semi algebraic geometry as well as computing algebraic certificates and applications of real algebraic geometry to concrete problems arising in robotics and computer graphics The book is intended for researchers interested in computational methods in algebra Applied Algebra, Algebraic Algorithms, and Error-correcting Codes Teo Mora, 1989-05-23 In 1988 for the first time the two international conferences AAECC 6 and ISSAC 88 International Symposium on Symbolic and Algebraic Computation see Lecture Notes in Computer Science 358 have taken place as a Joint Conference in Rome July 4 8 1988 The topics of the two conferences are in fact widely related to each other and the Joint Conference presented a good occasion for the two research communities to meet and share scientific experiences and results The proceedings of the AAECC 6 are included in this volume The main topics are Applied Algebra Theory and Application of Error Correcting Codes Cryptography Complexity Algebra Based Methods and Applications in Symbolic Computing and Computer Algebra and Algebraic Methods and Applications for Advanced Information Processing Twelve invited papers on subjects of common interest for the two conferences are divided between this volume and the succeeding Lecture Notes volume devoted to ISSAC 88 The proceedings of the 5th conference are published as Vol 356 of the Lecture Notes in Computer Science **Algebraic Combinatorics in Mathematical Chemistry Methods Algorithm** Mr. Ajeet Singh, 2018-05-22 This book integrates algebraic combinatorics with mathematical chemistry presenting algorithms and computational methods for chemical graph theory molecular structure analysis and property prediction **Combinatorial Geometry and Its Algorithmic Applications** János Pach, Micha Sharir, 2009 Based on a

lecture series given by the authors at a satellite meeting of the 2006 International Congress of Mathematicians and on many articles written by them and their collaborators this volume provides a comprehensive up to date survey of several core areas of combinatorial geometry It describes the beginnings of the subject going back to the nineteenth century if not to Euclid and explains why counting incidences and estimating the combinatorial complexity of various arrangements of geometric objects became the theoretical backbone of computational geometry in the 1980s and 1990s The combinatorial techniques outlined in this book have found applications in many areas of computer science from graph drawing through hidden surface removal and motion planning to frequency allocation in cellular networks Combinatorial Geometry and Its Algorithmic Applications is intended as a source book for professional mathematicians and computer scientists as well as for graduate students interested in combinatorics and geometry Most chapters start with an attractive simply formulated but often difficult and only partially answered mathematical question and describes the most efficient techniques developed for its solution The text includes many challenging open problems figures and an extensive bibliography BOOK JACKET

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

Isomorphisms, Symmetry and Computations in Algebraic Graph Theory Gareth A. Jones, Ilia Ponomarenko, Jozef Širáň, 2020-01-10 This book consists of a selection of peer reviewed contributions to the Workshop on Algebraic Graph Theory that took place in Pilsen Czech Republic in October 2016 Primarily intended for early career researchers it presents eight self contained articles on a selection of topics within algebraic combinatorics ranging from association schemes to symmetries of graphs and isomorphism testing Algebraic combinatorics is a compelling mathematical discipline based on the powerful interplay of algebraic and combinatorial methods Algebraic interpretation of combinatorial structures such as symmetry or regularity has often led to enlightening discoveries and powerful results while discrete and combinatorial structures have given rise to new algebraic structures that have found valuable applications In addition to these original research contributions the reader will find a survey linking numerous threads in algebraic combinatorics and an extensive tutorial showcasing the universality of algebraic methods in the study of combinatorial structures

An Algorithmic Theory of Numbers, Graphs and Convexity Laszlo Lovasz, 1987-01-01 Studies two algorithms in detail the ellipsoid method and the simultaneous diophantine approximation method

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Combinatorial Algorithms Henning Fernau,Binhai Zhu,2025-08-19 This book constitutes the refereed proceedings of the 36th International Workshop on Combinatorial Algorithms IWOCA 2025 held in Bozeman MT USA during July 21 24 2025 The 32 full papers and two abstracts of invited talks included in this book were carefully reviewed and selected from 71 submissions The IWOCA conference series has provided an annual forum for researchers who design algorithms to address the myriad combinatorial problems underlying computer applications in science engineering and business

Combinatorial Algorithms Costas S. Iliopoulos,William F. Smyth,2011-03-16 This book constitutes the thoroughly referred post proceedings of the 21st International Workshop on Combinatorial Algorithms IWOCA 2010 held in London UK in July 2010 The 31 revised full papers presented together with extended abstracts of 8 poster presentations were carefully reviewed and selected from a total of 85 submissions A broad variety of combinatorial graph algorithms for the computations of various graph features are presented also algorithms for network computation approximation computational geometry games and search are presented and complexity aspects of such algorithms are discussed

Algorithmic Combinatorics on Partial Words Francine Blanchet-Sadri,2007-11-19 The discrete mathematics and theoretical computer science communities have recently witnessed explosive growth in the area of algorithmic combinatorics on words The next generation of research on combinatorics of partial words promises to have a substantial impact on molecular biology nanotechnology data communication and DNA computing Delving

The Multivariate Algorithmic Revolution and Beyond Hans L. Bodlaender,Rodney Downey,Fedor V. Fomin,Dániel Marx,2012-06-16 Parameterized complexity is currently a thriving field in complexity theory and algorithm design A significant part of the success of the field can be attributed to Michael R Fellows This Festschrift has been published in honor of Mike Fellows on the occasion of his 60th birthday It contains 20 papers that showcase the important scientific contributions of this remarkable man describes the history of the field of parameterized complexity and also reflects on other parts of Mike Fellows s unique and broad range of interests including his work on the popularization of discrete mathematics for young children The volume contains several surveys that introduce the reader to the field of parameterized complexity and discuss important notions results and developments in this field

Combinatorial Algorithms W. F. Symth,Subramanian Arumugam,2012-12-22 This book constitutes the thoroughly referred post workshop proceedings of the 23rd International Workshop on Combinatorial Algorithms IWOCA 2012 held in Krishnankoil Tamil Nadu India in July 2012 The 32 revised full papers presented were carefully reviewed and selected from a total of 88 submissions The papers are organized in topical

sections in algorithms and data Structures applications including Bioinformatics Networking etc combinatorics of words and strings combinatorial optimization combinatorial enumeration decompositions and combinatorial designs complexity theory structural and computational computational biology and graph theory and combinatorics submissions *Combinatorial Problems and Exercises* László Lovász, 1979 The main purpose of this book is to provide help in learning existing techniques in combinatorics The most effective way of learning such techniques is to solve exercises and problems This book presents all the material in the form of problems and series of problems apart from some general comments at the beginning of each chapter In the second part a hint is given for each exercise which contains the main idea necessary for the solution but allows the reader to practice the techniques by completing the proof In the third part a full solution is provided for each problem This book will be useful to those students who intend to start research in graph theory combinatorics or their applications and for those researchers who feel that combinatorial techniques might help them with their work in other branches of mathematics computer science management science electrical engineering and so on For background only the elements of linear algebra group theory probability and calculus are needed

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