

ALGEBRAIC COMBINATORICS ON WORDS

M. Lothaire

Algebraic Combinatorics On Words Algebraic Combinatorics On Words

**Juhani Karhumäki, Arto Lepistö, Luca
Zamboni**



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Combinatorics on Words M. Lothaire, 1997-05-29 Combinatorics on words or finite sequences is a field which grew simultaneously within disparate branches of mathematics such as group theory and probability It has grown into an independent theory finding substantial applications in computer science automata theory and linguistics This volume is the first to present a thorough treatment of this theory All of the main results and techniques are covered The presentation is accessible to undergraduate and graduate level students in mathematics and computer science as well as to specialists in all branches of applied mathematics *Algebraic Combinatorics on Words* M. Lothaire, 2002-04-18 Comprehensive 2002 introduction to combinatorics on words for mathematicians and theoretical computer scientists *Algebraic Combinatorics on Words* M. Lothaire, 2002 *Algebraic Combinatorics and Computer Science* H. Crapo, D. Senato, 2012-12-06 This book dedicated to the memory of Gian Carlo Rota is the result of a collaborative effort by his friends students and admirers Rota was one of the great thinkers of our times innovator in both mathematics and phenomenology I feel moved yet touched by a sense of sadness in presenting this volume of work despite the fear that I may be unworthy of the task that befalls me Rota both the scientist and the man was marked by a generosity that knew no bounds His ideas opened wide the horizons of fields of research permitting an astonishing number of students from all over the globe to become enthusiastically involved The contagious energy with which he demonstrated his tremendous mental capacity always proved fresh and inspiring Beyond his renown as gifted scientist what was particularly striking in Gian Carlo Rota was his ability to appreciate the diverse intellectual capacities of those before him and to adapt his communications accordingly This human sense complemented by his acute appreciation of the importance of the individual acted as a catalyst in bringing forth the very best in each one of his students Whosoever was fortunate enough to enjoy Gian Carlo Rota's longstanding friendship was most enriched by the experience both mathematically and philosophically and had occasion to appreciate son cote de bon vivant The book opens with a heartfelt piece by Henry Crapo in which he meticulously pieces together what Gian Carlo Rota's untimely demise has bequeathed to science *Algebraic Combinatorics and Coinvariant Spaces* Francois Bergeron, 2009-07-06 Written for graduate students in mathematics or non specialist mathematicians who wish to learn the basics about some of the most important current research in the field this book provides an intensive yet accessible introduction to the subject of algebraic combinatorics After recalling basic notions of combinatorics representation theory and **Formal Power Series and Algebraic Combinatorics (Series Formelles et Combinatoire Algebrique)**, 1994 Louis J. Billera, 1996 Because of the interplay among many fields of mathematics and science algebraic combinatorics is an area in which a wide variety of ideas and methods come together The papers in this volume reflect the most interesting aspects of this rich interaction and will be of interest to researchers in discrete mathematics and combinatorial systems *Lectures in Algebraic Combinatorics* Adriano M. Garsia, Ömer Eğecioğlu, 2020-10-06 Capturing Adriano Garsia's unique perspective on essential topics in

algebraic combinatorics this book consists of selected classic notes on a number of topics based on lectures held at the University of California San Diego over the past few decades The topics presented share a common theme of describing interesting interplays between algebraic topics such as representation theory and elegant structures which are sometimes thought of as being outside the purview of classical combinatorics The lectures reflect Garsia's inimitable narrative style and his exceptional expository ability The preface presents the historical viewpoint as well as Garsia's personal insights into the subject matter The lectures then start with a clear treatment of Alfred Young's construction of the irreducible representations of the symmetric group seminormal representations and Morphy elements This is followed by an elegant application of $SL(2)$ representations to algebraic combinatorics The last two lectures are on heaps continued fractions and orthogonal polynomials with applications and finally there is an exposition on the theory of finite fields The book is aimed at graduate students and researchers in the field

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

Algebraic Combinatorics and Applications Anton Betten, Axel Kohnert, Reinhard Laue, Alfred Wassermann, 2013-11-09 Proceedings of a high level conference on discrete mathematics focusing on group actions in the areas of pure mathematics applied mathematics computer science physics and chemistry A useful tool for researchers and graduate students in discrete mathematics and theoretical computer science

Combinatorics on Words Juhani Karhumäki, Arto Lepistö, Luca Zamboni, 2013-08-15 This book constitutes the refereed proceedings of the 9th International Conference on Combinatorics on Words WORDS 2013 held in Turku Finland in September 2013 under the auspices of the EATCS The 20 revised full papers presented were carefully reviewed and selected from 43 initial submissions The central topic of the conference is combinatorics on words i.e. the study of finite and infinite sequence of symbols from varying points of view including their combinatorial algebraic and algorithmic aspects as well as their applications

Combinatorics, Words and Symbolic Dynamics Valérie Berthé, Michel Rigo, 2016-02-26 Surveys trends arising from the applications and interactions between combinatorics symbolic dynamics and theoretical computer science

Formal Power Series and Algebraic Combinatorics Daniel Krob, Alexander A. Mikhalev, Alexander V. Mikhalev, 2013-03-09 This book contains the extended abstracts presented at the 12th International Conference on Power Series and Algebraic Combinatorics FPSAC 00 that took place at Moscow State University June 26-30 2000 These proceedings cover the most recent trends in algebraic and bijective combinatorics including classical combinatorics combinatorial computer algebra combinatorial identities combinatorics of classical groups Lie algebra and quantum groups enumeration symmetric functions young tableaux etc

Algebraic Informatics Symeon Bozapalidis, George Rahonis, 2007-12-06 This book constitutes the refereed proceedings of the Second International

Conference on Algebraic Informatics CAI 2007 held in Thessaloniki Greece in May 2007 The papers cover topics such as algebraic semantics on graphs and trees formal power series syntactic objects algebraic picture processing infinite computation acceptors and transducers for strings trees graphs arrays etc and decision problems **Combinatorics on Words** Robert Mercas,Daniel Reidenbach,2019-09-02 This book constitutes the refereed proceedings of the 12th International Conference on Combinatorics on Words WORDS 2019 held in Loughborough UK in September 2019 The 21 revised full papers presented in this book together with 5 invited talks were carefully reviewed and selected from 34 submissions WORDS is the main conference series devoted to the mathematical theory of words In particular the combinatorial algebraic and algorithmic aspects of words are emphasized Motivations may also come from other domains such as theoretical computer science bioinformatics digital geometry symbolic dynamics numeration systems text processing number theory etc *Applied Combinatorics on Words* M. Lothaire,2005-07-11 Publisher Description Combinatorics on Words Florin Manea,Dirk Nowotka,2015-08-26 This book constitutes the refereed proceedings of the 10th International Conference on Combinatorics on Words WORDS 2015 held in Kiel Germany in September 2015 under the auspices of the EATCS The 14 revised full papers presented were carefully reviewed and selected from 22 submissions The main object in the contributions are words finite or infinite sequences of symbols over a finite alphabet The papers reflect both theoretical contributions related to combinatorial algebraic and algorithmic aspects of words as well as to contributions presenting applications of the theory of words in other field of computer science linguistics biology bioinformatics or physics

Combinatorics on Words Anna Frid,Robert Mercas,2023-05-30 This book constitutes the refereed proceedings of the 14th International Conference on Combinatorics on Words WORDS 2023 held in Ume Sweden during June 12 16 2023 The 19 contributed papers presented in this book were carefully reviewed and selected from 28 submissions In addition the volume also contains 3 invited papers WORDS is the main conference series devoted to combinatorics on words This area is connected to several topics from computer science and mathematics including string algorithms automated proofs discrete dynamics number theory and of course classical combinatorics 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 **Combinatorics on Words** Srečko Brlek,Francesco Dolce,Christophe Reutenauer,Élise Vandomme,2017-08-21 This book constitutes the refereed proceedings of the 11th International Conference on Combinatorics on Words WORDS 2017 held in Montr al QC Canada in September 2017 The 21 revised full papers presented together with 5invoted talks were carefully reviewed and selected from 26 submissions Discrete geometry plays an expanding role in the fields of shape modeling image synthesis and image analysis It deals with topological and geometrical

definitions of digitized objects or digitized images and provides both a theoretical and computational framework for computer imaging

Recent Trends in Algebraic Combinatorics Hélène Barcelo, Gizem Karaali, Rosa Orellana, 2019-01-21 This edited volume features a curated selection of research in algebraic combinatorics that explores the boundaries of current knowledge in the field Focusing on topics experiencing broad interest and rapid growth invited contributors offer survey articles on representation theory symmetric functions invariant theory and the combinatorics of Young tableaux The volume also addresses subjects at the intersection of algebra combinatorics and geometry including the study of polytopes lattice points hyperplane arrangements crystal graphs and Grassmannians All surveys are written at an introductory level that emphasizes recent developments and open problems An interactive tutorial on Schubert Calculus emphasizes the geometric and topological aspects of the topic and is suitable for combinatorialists as well as geometrically minded researchers seeking to gain familiarity with relevant combinatorial tools Featured authors include prominent women in the field known for their exceptional writing of deep mathematics in an accessible manner Each article in this volume was reviewed independently by two referees The volume is suitable for graduate students and researchers interested in algebraic combinatorics

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