

CMS Books in Mathematics

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Combinatorial Methods

Free Groups, Polynomials,
and Free Algebras



Canadian Mathematical Society
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Combinatorial Methods Free Groups Polynomials Free Algebras

**Antonio Giambruno, Amitai
Regev, Mikhail Zaicev**



Combinatorial Methods Free Groups Polynomials Free Algebras:

Combinatorial Methods Vladimir Shpilrain, Alexander Mikhalev, Jie-tai Yu, 2012-11-12 This book is about three seemingly independent areas of mathematics combinatorial group theory the theory of Lie algebras and affine algebraic geometry Indeed for many years these areas were being developed fairly independently Combinatorial group theory the oldest of the three was born in the beginning of the 20th century as a branch of low dimensional topology Very soon it became an important area of mathematics with its own powerful techniques In the 1950s combinatorial group theory started to influence rather substantially the theory of Lie algebras thus combinatorial theory of Lie algebras was shaped although the origins of the theory can be traced back to the 1930s In the 1960s B Buchberger introduced what is now known as Gröbner bases This marked the beginning of a new combinatorial era in commutative algebra It is not very likely that Buchberger was directly influenced by ideas from combinatorial group theory but his famous algorithm bears resemblance to Nielsen's method although in a more sophisticated form [Polynomial Identities And Combinatorial Methods](#) Antonio

Giambruno, Amitai Regev, Mikhail Zaicev, 2003-05-20 *Polynomial Identities and Combinatorial Methods* presents a wide range of perspectives on topics ranging from ring theory and combinatorics to invariant theory and associative algebras It covers recent breakthroughs and strategies impacting research on polynomial identities and identifies new concepts in algebraic combinatorics invariant and representation theory and Lie algebras and superalgebras for novel studies in the field It presents intensive discussions on various methods and techniques relating the theory of polynomial identities to other branches of algebraic study and includes discussions on Hopf algebras and quantum polynomials free algebras and Scheier varieties [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 2017 in Birmingham** C. M. Campbell, C. W. Parker, M. R. Quick, E. F. Robertson, C. M. Roney-Dougal, 2019-04-11 This volume arises from the 2017 edition of the long running Groups St Andrews conference series and consists of expository papers from leading researchers in all areas of group theory It provides a snapshot of the state of the art in the field and it will be a valuable resource for researchers and graduate students **Bimonoids for Hyperplane**

Arrangements Marcelo Aguiar, Swapneel Mahajan, 2020-03-19 The goal of this monograph is to develop Hopf theory in a new setting which features centrally a real hyperplane arrangement The new theory is parallel to the classical theory of connected Hopf algebras and relates to it when specialized to the braid arrangement Joyal's theory of combinatorial species ideas from Tits theory of buildings and Rota's work on incidence algebras inspire and find a common expression in this theory The authors introduce notions of monoid comonoid bimonoid and Lie monoid relative to a fixed hyperplane arrangement They also construct universal bimonoids by using generalizations of the classical notions of shuffle and quasishuffle and establish the Borel Hopf Poincaré Birkhoff Witt and Cartier Milnor Moore theorems in this setting This

monograph opens a vast new area of research It will be of interest to students and researchers working in the areas of hyperplane arrangements semigroup theory Hopf algebras algebraic Lie theory operads and category theory **Free Ideal Rings and Localization in General Rings** P. M. Cohn,2006-06-08 Proving that a polynomial ring in one variable over a field is a principal ideal domain can be done by means of the Euclidean algorithm but this does not extend to more variables However if the variables are not allowed to commute giving a free associative algebra then there is a generalization the weak algorithm which can be used to prove that all one sided ideals are free This book presents the theory of free ideal rings fir in detail Particular emphasis is placed on rings with a weak algorithm exemplified by free associative algebras There is also a full account of localization which is treated for general rings but the features arising in fir are given special attention Each section has a number of exercises including some open problems and each chapter ends in a historical note *Affine Algebraic Geometry* Jaime Gutierrez,Vladimir Shpilrain,Jie-Tai Yu,2005 A Special Session on affine and algebraic geometry took place at the first joint meeting between the American Mathematical Society AMS and the Real Sociedad Matematica Espanola RSME held in Seville Spain This volume contains articles by participating speakers at the Session The book contains research and survey papers discussing recent progress on the Jacobian Conjecture and affine algebraic geometry and includes a large collection of open problems It is suitable for graduate students and research mathematicians interested in algebraic geometry *Mathematical Reviews* ,2004 *Free and Moving Boundaries* Roland Glowinski,2007-06-06 Addressing algebraic problems found in biomathematics and energy Free and Moving Boundaries Analysis Simulation and Control discusses moving boundary and boundary control in systems described by partial differential equations PDEs With contributions from international experts the book emphasizes numerical and theoretical control of mo Profinite Graphs and Groups Luis Ribes,2017-08-23 This book offers a detailed introduction to graph theoretic methods in profinite groups and applications to abstract groups It is the first to provide a comprehensive treatment of the subject The author begins by carefully developing relevant notions in topology profinite groups and homology including free products of profinite groups cohomological methods in profinite groups and fixed points of automorphisms of free pro p groups The final part of the book is dedicated to applications of the profinite theory to abstract groups with sections on finitely generated subgroups of free groups separability conditions in free and amalgamated products and algorithms in free groups and finite monoids Profinite Graphs and Groups will appeal to students and researchers interested in profinite groups geometric group theory graphs and connections with the theory of formal languages A complete reference on the subject the book includes historical and bibliographical notes as well as a discussion of open questions and suggestions for further reading **Combinatorial Methods in Topology and Algebraic Geometry** John R. Harper,Richard Mandelbaum,1985 This collection marks the recent resurgence of interest in combinatorial methods resulting from their deep and diverse applications both in topology and algebraic geometry Nearly thirty mathematicians met at the University of Rochester in 1982 to survey several of the

areas where combinatorial methods are proving especially fruitful topology and combinatorial group theory knot theory 3 manifolds homotopy theory and infinite dimensional topology and four manifolds and algebraic surfaces This material is accessible to advanced graduate students with a general course in algebraic topology along with some work in combinatorial group theory and geometric topology as well as to established mathematicians with interests in these areas For both student and professional mathematicians the book provides practical suggestions for research directions still to be explored as well as the aesthetic pleasures of seeing the interplay between algebra and topology which is characteristic of this field In several areas the book contains the first general exposition published on the subject In topology for example the editors have included M Cohen W Metzler and K Sauerman s article on Collapses of K times I and group presentations and Metzler s On the Andrews Curtis Conjecture and related problems In addition J M Montesino has provided summary articles on both 3 and 4 manifolds

Comptes rendus de l'Académie bulgare des sciences, 2009 **Newsletter** New Zealand Mathematical Society, 2004 *American Book Publishing Record*, 2004 *Algorithmic and Combinatorial Algebra* L.A. Bokut', G.P. Kukin, 2012-12-06

Even three decades ago the words combinatorial algebra contrasting for instance the words combinatorial topology were not a common designation for some branch of mathematics The collocation combinatorial group theory seems to appear first as the title of the book by A Karras W Magnus and D Solitar 182 and later on it served as the title of the book by R C Lyndon and P Schupp 247 Nowadays specialists do not question the existence of combinatorial algebra as a special algebraic activity The activity is distinguished not only by its objects of research that are effectively given to some extent but also by its methods effective to some extent To be more exact we could approximately define the term combinatorial algebra for the purposes of this book as follows So we call a part of algebra dealing with groups semi groups associative algebras Lie algebras and other algebraic systems which are given by generators and defining relations in the first and particular place free groups semigroups algebras etc j a part in which we study universal constructions viz free products LINN extensions etc j and finally a part where specific methods such as the Composition Method in other words the Diamond Lemma see 49 are applied Surely the above explanation is far from covering the full scope of the term compare the prefaces to the books mentioned above

Aspects of Mathematics Ngaiming Mok, 2001 *Free Algebras and PI-algebras* Vesselin S. Drensky, 2000 The book is devoted to the combinatorial theory of polynomial algebras free associative and free Lie algebras and algebras with polynomial identities It also examines the structure of automorphism groups of free and relatively free algebras It is based on graduate courses and short cycles of lectures presented by the author at several universities and its goal is to involve the reader as soon as possible in the research area to make him or her able to read books and papers on the considered topics It contains both classical and contemporary results and methods A specific feature of the book is that it includes as its inseparable part more than 250 exercises and examples with detailed hints 50 % of the numbered statements some of them treating serious mathematical results The exposition is accessible for graduate and advanced undergraduate

students with standard background on linear algebra and some elements of ring theory and group theory The professional mathematician working in the field of algebra and other related topics also will find the book useful for his or her research and teaching

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St. Petersburg Mathematical Journal ,2002 **Algebra Colloquium** ,2008 **Semigroups, Formal Languages and Groups** J.B. Fountain,1995-05-31 Semigroups Formal Languages and Groups contains articles that provide introductory accounts of recent research in rational languages and their connections with finite semigroups including the celebrated BG PG theorem infinite languages free profinite monoids and their applications to pseudovarieties parallel complexity classes related to automata semigroups and logic algebraic monoids geometric methods in semigroup presentations automatic groups and groups acting on Lambda trees There is also an extensive survey of algorithmic problems in groups semigroups and inverse monoids In addition the book includes hitherto unpublished research on monoids of Lie type and their representations free actions of groups on Lambda trees and an extension to arbitrary semigroups of the famous Krohn Rhodes theorem

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