

volume 235

A Dordrecht Series of Lecture Notes in Pure and Applied Mathematics

Polynomial Identities and Combinatorial Methods

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Polynomial Identities And Combinatorial Methods:

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 Scheiderer varieties. *Polynomial Identities and Asymptotic Methods* A. Giambruno, Mikhail Zaicev, 2005. This book gives a state of the art approach to the study of polynomial identities satisfied by a given algebra by combining methods of ring theory, combinatorics and representation theory of groups with analysis. The idea of applying analytical methods to the theory of polynomial identities appeared in the early 1970s and this approach has become one of the most powerful tools of the theory. A PI algebra is any algebra satisfying at least one nontrivial polynomial identity. This includes the polynomial rings in one or several variables, the Grassmann algebra, finite dimensional algebras and many other algebras occurring naturally in mathematics. The core of the book is the proof that the sequence of co-dimensions of any PI algebra has integral exponential growth, the PI exponent of the algebra. Later chapters further apply these results to subjects such as a characterization of varieties of algebras having polynomial growth and a classification of varieties that are minimal for a given exponent. **Computational Aspects of Polynomial Identities** Alexei Kanel-Belov, Yakov Karasik, Louis Halle Rowen, 2015-10-22. Computational Aspects of Polynomial Identities Volume I: Kemer's Theorems. 2nd Edition presents the underlying ideas in recent polynomial identity (PI) theory and demonstrates the validity of the proofs of PI theorems. This edition gives all the details involved in Kemer's proof of Specht's conjecture for affine PI algebras in characteristic 0. **Virtual Topology and Functor Geometry** Fred Van Oystaeyen, 2007-11-15. Intrinsically noncommutative spaces today are considered from the perspective of several branches of modern physics including quantum gravity, string theory and statistical physics. From this point of view it is ideal to devise a concept of space and its geometry that is fundamentally noncommutative. Providing a clear introduction to noncommutative Syzygies and Hilbert Functions Irena Peeva, 2007-03-20. Hilbert functions and resolutions are both central objects in commutative algebra and fruitful tools in the fields of algebraic geometry, combinatorics, commutative algebra and computational algebra. Spurred by recent research in this area, *Syzygies and Hilbert Functions* explores fresh developments in the field as well as fundamental concepts. Factoring Groups into Subsets Sandor Szabo, Arthur D. Sands, 2009-01-21. Decomposing an abelian group into a direct sum of its subsets leads to results that can be applied to a variety of areas such as number theory, geometry of tilings, coding theory, cryptography, graph theory and Fourier analysis. Focusing mainly on cyclic groups, *Factoring Groups into Subsets*

explores the factorization theory of abelian groups Th *Polynomial Identities in Algebras* Onofrio Mario Di Vincenzo, Antonio Giambruno, 2021-03-22 This volume contains the talks given at the INDAM workshop entitled Polynomial identities in algebras held in Rome in September 2019 The purpose of the book is to present the current state of the art in the theory of PI algebras The review of the classical results in the last few years has pointed out new perspectives for the development of the theory In particular the contributions emphasize on the computational and combinatorial aspects of the theory its connection with invariant theory representation theory growth problems It is addressed to researchers in the field

Polynomial Identity Rings Vesselin Drensky, Edward Formanek, 2012-12-06 A ring R satisfies a polynomial identity if there is a polynomial f in noncommuting variables which vanishes under substitutions from R For example commutative rings satisfy the polynomial $f(x, y) = xy - yx$ and exterior algebras satisfy the polynomial $f(x, y, z) = xyz - xzy - yxz + yzx + zxy - zyx$ Satisfying a polynomial identity is often regarded as a generalization of commutativity These lecture notes treat polynomial identity rings from both the combinatorial and structural points of view The former studies the ideal of polynomial identities satisfied by a ring R The latter studies the properties of rings which satisfy a polynomial identity The greater part of recent research in polynomial identity rings is about combinatorial questions and the combinatorial part of the lecture notes gives an up to date account of recent research On the other hand the main structural results have been known for some time and the emphasis there is on a presentation accessible to newcomers to the subject The intended audience is graduate students in algebra and researchers in algebra combinatorics and invariant theory

Rings with Polynomial Identities and Finite Dimensional Representations of Algebras Eli Aljadeff, Antonio Giambruno, Claudio Procesi, Amitai Regev, 2020-12-14 A polynomial identity for an algebra or a ring A is a polynomial in noncommutative variables that vanishes under any evaluation in A An algebra satisfying a nontrivial polynomial identity is called a PI algebra and this is the main object of study in this book which can be used by graduate students and researchers alike The book is divided into four parts Part 1 contains foundational material on representation theory and noncommutative algebra In addition to setting the stage for the rest of the book this part can be used for an introductory course in noncommutative algebra An expert reader may use Part 1 as reference and start with the main topics in the remaining parts Part 2 discusses the combinatorial aspects of the theory the growth theorem and Shirshov's bases Here methods of representation theory of the symmetric group play a major role Part 3 contains the main body of structure theorems for PI algebras theorems of Kaplansky and Posner the theory of central polynomials M Artin's theorem on Azumaya algebras and the geometric part on the variety of semisimple representations including the foundations of the theory of Cayley Hamilton algebras Part 4 is devoted first to the proof of the theorem of Razmyslov Kemer and Braun on the nilpotency of the nil radical for finitely generated PI algebras over Noetherian rings then to the theory of Kemer and the Specht problem Finally the authors discuss PI exponent and codimension growth This part uses some nontrivial analytic tools coming from probability theory The appendix presents the counterexamples of Golod and

Shafarevich to the Burnside problem Noncommutative Algebra and Geometry Corrado De Concini, 2005-09-01 A valuable addition to the Lecture Notes in Pure and Applied Mathematics series this reference results from a conference held in St Petersburg Russia in honor of Dr Z Borevich This volume is mainly devoted to the contributions related to the European Science Foundation workshop organized under the framework of noncommutative geometry and i

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