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Edward Formanek

Polynomial Identity Rings



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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.

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 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 **Advances in Rings and Modules** Sergio R. López-Permouth, Jae Keol Park, S. Tariq Rizvi, Cosmin S. Roman, 2018-09-06 This volume dedicated to Bruno J M ller a renowned algebraist is a collection of papers that provide a snapshot of the diversity of themes and applications that interest algebraists today The papers highlight the latest progress in ring and module research and present work done on the frontiers of the topics discussed In addition selected expository articles are included to give algebraists and other mathematicians including graduate students an accessible introduction to areas that may be outside their own expertise

Rings with Polynomial Identities and Finite Dimensional Representations of Algebras Eliahu Aljadeff, A. Giambruno, Claudio Procesi, Amitai Regev, 2020 Noncommutative algebra Universal algebra Symmetric functions and matrix invariants Polynomial maps Azumaya algebras and irreducible representations Tensor symmetry Growth Shirshov s theorem 2×2 matrices Matrix identities Structure theorems Invariants and trace identities Involutions and matrices A geometric approach Spectrum and dimension The nilpotent radical Finite dimensional and affine PI algebras The relatively free algebras Identities and superalgebras The Specht problem The PI exponent Codimension growth for matrices Codimension growth for algebras satisfying a Capelli identity Amitsur Centennial Symposium Avinoam Mann, Louis H. Rowen, David J. Saltman, Aner Shalev, Lance W. Small, Uzi Vishne, 2024-05-14 This volume contains the proceedings of the Amitsur Centennial Symposium held from November 1 4 2021 virtually and at the Israel Institute for Advanced Studies IAS The Hebrew University of Jerusalem Jerusalem Israel Shimshon Amitsur was a pioneer in several branches of algebra the leading algebraist in Israel for several decades who contributed major theorems inspiring results useful observations and enlightening tricks to many areas of the field The fifteen papers included in the volume represent the broad impact of Amitsur s work on such areas as the theory of finite simple groups algebraic groups PI algebras and growth of rings quadratic forms and division algebras torsors and Severi Brauer surfaces Hopf algebras and braces invariants automorphisms and derivations *Ramsey Methods in Analysis* Spiros A. Argyros, Stevo Todorćević, 2005-05-19 This book

contains two sets of notes prepared for the Advanced Course on Real Methods in Analysis given at the Centre de Recerca Matemàtica in January 2004 as part of its year long research programme on Set Theory and its Applications. The common goal of the two sets of notes is to help young mathematicians enter a very active area of research lying on the borderline between analysis and combinatorics. The solution of the distortion problem for the Hilbert space, the unconditional basic sequence problem for Banach spaces and the Banach homogeneous space problem are samples of the most important recent advances in this area and our two sets of notes will give some account of this. But our main goal was to try to expose the general principles and methods that lie hidden behind and are most likely useful for further developments. The goal of the first set of notes is to describe a general method of building norms with desired properties, a method that is clearly relevant when testing any sort of intuition about the infinite dimensional geometry of Banach spaces. The goal of the second set of notes is to expose Ramsey theoretic methods relevant for describing the rough structure present in this sort of geometry. We would like to thank the coordinator of the Advanced Course Joan Barria and the director of the CRM Manuel Castellet for giving us this challenging but rewarding opportunity.

Part A: Saturated and Conditional Structures in Banach Spaces Spiros A. **Comptes rendus de l'Académie bulgare des sciences**, 2007 American Book Publishing Record, 2004 **Serdica Mathematical Journal**, 2004 **Proceedings**, 2005 **Mathematical Reviews**, 2005 **Annales de l'Institut Fourier**, 1949 **Das Schweizer Buch**, 2004 The Polynomial Identities and Invariants of $N \times N$ Matrices Edward Formanek, The theory of polynomial identities as a well defined field of study began with a well known 1948 article of Kaplansky. The field has since developed along two branches: the structural which investigates the properties of rings which satisfy a polynomial identity and the varietal which investigates the set of polynomials in the free ring which vanish under all specializations in a given ring. This book is based on lectures delivered during an NSF CBMS Regional Conference held at DePaul University in July 1990 at which the author was the principal lecturer. The first part of the book is concerned with polynomial identity rings. The emphasis is on those parts of the theory related to $n \times n$ matrices including the major structure theorems and the construction of certain polynomial identities and central polynomials for $n \times n$ matrices. The ring of generic matrices and its centre is described. The author then moves on to the invariants of $n \times n$ matrices beginning with the first and second fundamental theorems which are used to describe the polynomial identities satisfied by $n \times n$ matrices. One of the exceptional features of this book is the way it emphasizes the connection between polynomial identities and invariants of $n \times n$ matrices. Accessible to those with background at the level of a first year graduate course in algebra, this book gives readers an understanding of polynomial identity rings and invariant theory as well as an indication of current problems and research in these areas. *Polynomial Identities in Ring Theory* Louis Halle Rowen, 1980 **RINGS WITH POLYNOMIAL IDENTITIES AND FINITE DIMENSIONAL REPRESENTATIONS OF Algebras** Eli Aljadeff, 2020 Affine Polynomial Identity Rings and Their Generalization Amiram Braun, 1977 **Group Identities on Units and Symmetric Units of Group Rings** Gregory T

Lee, 2010-09-20 Let FG be the group ring of a group G over a field F . Write $U(FG)$ for the group of units of FG . It is an important problem to determine the conditions under which $U(FG)$ satisfies a group identity. In the mid 1990s a conjecture of Hartley was verified namely if $U(FG)$ satisfies a group identity and G is torsion then FG satisfies a polynomial identity. Necessary and sufficient conditions for $U(FG)$ to satisfy a group identity soon followed. Since the late 1990s many papers have been devoted to the study of the symmetric units that is those units u satisfying $u = u^*$ where $*$ is the involution on FG defined by sending each element of G to its inverse. The conditions under which these symmetric units satisfy a group identity have now been determined. This book presents these results for arbitrary group identities as well as the conditions under which the unit group or the set of symmetric units satisfies several particular group identities of interest.

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