Rings with Polynomial Identities and Finite Dimensional Representations of Algebras

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Rings With Polynomial Identities

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Rings With Polynomial Identities:

   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 A is a polynomial in noncommutative variables that vanishes under any evaluation in A 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   *On Rings with Polynomial Identities* Claudio Procesi,1966   Rings with Polynomial Identities Claudio Procesi,1973   *Rings with Polynomial Identities* Bruno J. Müller,1977   *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 xy yx z z xy yx 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   **Polynomial Identities in Ring Theory** ,1980-07-24 Polynomial Identities in Ring Theory   *The Polynomial Identities and Invariants of $n \times n$ Matrices* Edward Formanek,1991 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 x n matrices including the major structure theorems and the construction of certain polynomials identities and central polynomials for n x n matrices The ring of generic matrices and its centre is described The author then moves on to the invariants of n x n matrices beginning with the first and second fundamental theorems which are used to describe the polynomial identities satisfied by n x n matrices One of the exceptional features of this book is the way it emphasizes the connection between polynomial identities and invariants of n x 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 **Rings with Polynomial Identities** Bruno J. Mueller,1975 **Ring Theory V2** ,1988-07-01 Ring Theory V2 Noetherian Rings and Rings with Polynomial Identities ,1979 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 **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 x 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 **Lectures on Quotient Rings and Rings with Polynomial Identities** A. W. Goldie,Wolfgang Hamernik,1974 Prime Rings with Polynomial Identities Ney Borba,1972 **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 identites 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 **Rings with Generalized Identities** Konstant I. Beidar,Wallace S. Martindale,Alexander V. Mikhalev,1995-11-17 Discusses the latest results concerning the area of noncommutative ring theory known as the theory of generalized identities GIs detailing Kharchenko s results on GIs in prime rings Chuang s extension to antiautomorphisms and the use of the Beidar Mikhalev theory of orthogonal completion in the semiprime case Provides novel proofs of existing results *Ring Theory, 83* Louis H. Rowen,2012-12-02 This is an abridged edition of the author s previous two volume work Ring Theory which concentrates on essential material for a general ring theory course while ommitting much of the material intended for ring theory specialists It has been praised by reviewers As a textbook for graduate students Ring Theory joins the best The experts will find several attractive and pleasant features in Ring Theory The most noteworthy is the inclusion usually in supplements and appendices of many useful constructions which are hard to locate outside of the original sources The audience of nonexperts mathematicians whose speciality is not ring theory will find Ring Theory ideally suited to their needs They as well as students will be well served by the many examples of rings and the glossary of major results NOTICES OF THE AMS **Lectures on Algebraic Quantum Groups** John C Brown,Ken R. Goodearl,2002-04-01 This book consists of an expanded set of lectures on algebraic aspects of quantum groups It particularly concentrates on quantized coordinate rings of algebraic groups and spaces and on quantized enveloping algebras of semisimple Lie algebras Large parts of the material are developed in full textbook style featuring many examples and numerous exercises other portions are discussed with sketches of proofs while still other material is quoted without proof *First International Tainan-Moscow Algebra Workshop* Y. Fong,U. Knauer,A. V. Mikhalev,2016-11-21 No detailed description available for First International Tainan Moscow Algebra Workshop *Model Theoretic Algebra With Particular Emphasis on Fields, Rings, Modules* Christian.U Jensen,2022-03-10 This volume highlights the links between model theory and algebra The work contains a definitive account of algebraically compact modules a topic of central importance for both module and model theory Using concrete examples particular emphasis is given to model theoretic concepts such as axiomizability Pure mathematicians especially algebraists ring theorists logicians model theorists and representation theorists should find this an absorbing and stimulating book

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