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Edward Formanek
**THE POLYNOMIAL IDENTITIES
AND INVARIANTS
OF $n \times n$ MATRICES**



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Polynomial Identities And Invariants Of $N \times N$ Matrices

**Shimshon A. Amitsur, David J.
Saltman, George B. Seligman**



Polynomial Identities And Invariants Of $n \times n$ Matrices:

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 $n \times n$ 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

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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

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.

Representations of Finite Dimensional Algebras and Related Topics in Lie Theory and Geometry

Vlastimil Dlab, Claus Michael Ringel, These proceedings are from the Tenth International Conference on Representations of Algebras and Related Topics ICRA X held at The Fields Institute. In addition to the traditional instructional workshop preceding the conference, there were also workshops on Commutative Algebra, Algebraic Geometry and Representation Theory, Finite Dimensional Algebras, Algebraic Groups and Lie Theory, and Quantum Groups and Hall Algebras. These workshops reflect the latest developments and the increasing interest in areas that are closely related to the representation theory of finite dimensional associative algebras. Although these workshops were organized separately, their topics are strongly interrelated. The workshop on Commutative Algebra, Algebraic Geometry and Representation Theory surveyed various recently established connections such as those pertaining to the classification of vector bundles or Cohen-Macaulay modules over Noetherian rings, coherent sheaves on curves or ideals in Weyl algebras. In addition, methods from algebraic geometry or commutative algebra relating to quiver representations and varieties of modules were presented. The workshop on Finite Dimensional Algebras, Algebraic Groups and Lie Theory surveyed developments in finite dimensional algebras and infinite dimensional Lie theory, especially as the two areas interact and may have future interactions. The workshop on Quantum Groups and Hall Algebras dealt with the different approaches of using the representation theory of quivers and species in order to construct quantum groups working either over finite fields or over the complex numbers. In particular, these proceedings contain a quite detailed outline of the use of perverse sheaves in order to obtain canonical bases. The book is recommended for graduate students and researchers in algebra and geometry.

Invariant Theory Sebastian S.

Koh, 2006-11-15 This volume of expository papers is the outgrowth of a conference in combinatorics and invariant theory. In recent years, newly developed techniques from algebraic geometry and combinatorics have been applied with great success to some of the outstanding problems of invariant theory, moving it back to the forefront of mathematical research once again. This collection of papers centers on constructive aspects of invariant theory and opens with an introduction to the subject by F. Grosshans. Its purpose is to make the current research more accessible to mathematicians in related fields.

Algebraists' Homage: Papers in Ring Theory and Related Topics Shimshon A. Amitsur, David J. Saltman, George B.

Seligman, 1982 *Notices of the American Mathematical Society* American Mathematical Society, 1991 *Graduate*

Algebra: Noncommutative View Louis Halle Rowen, 2008 This book is an expanded text for a graduate course in commutative

algebra focusing on the algebraic underpinnings of algebraic geometry and of number theory Accordingly the theory of affine algebras is featured treated both directly and via the theory of Noetherian and Artinian modules and the theory of graded algebras is included to provide the foundation for projective varieties Major topics include the theory of modules over a principal ideal domain and its applications to matrix theory including the Jordan decomposition the Galois theory of field extensions transcendence degree the prime spectrum of an algebra localization and the classical theory of Noetherian and Artinian rings Later chapters include some algebraic theory of elliptic curves featuring the Mordell Weil theorem and valuation theory including local fields One feature of the book is an extension of the text through a series of appendices This permits the inclusion of more advanced material such as transcendental field extensions the discriminant and resultant the theory of Dedekind domains and basic theorems of rings of algebraic integers An extended appendix on derivations includes the Jacobian conjecture and Makar Limanov's theory of locally nilpotent derivations Gröbner bases can be found in another appendix Exercises provide a further extension of the text The book can be used both as a textbook and as a reference source

The Concise Handbook of Algebra Aleksandr Vasil'evich Mikhalev, 2002 Provides a succinct but thorough treatment of algebra In a collection that spans about 150 sections organized in 9 chapters algebraists are provided with a standard knowledge set for their areas of expertise *Trends in Ring Theory* Vlastimil Dlab, László Márki, 1998 The Ring Theory Conference held at the University of Miskolc Hungary successfully accomplished its two goals to reflect contemporary trends in the subject area and to offer a meeting place for a large number of Eastern European algebraists and their colleagues from around the world Particular emphasis was placed on recent developments in the following four areas representation theory group algebras PI algebras and general ring theory This book presents 13 of the invited lectures Ring Theory V2, 1988-07-01 *Ring Theory V2* *Lie Groups and Lie Algebras: E. B. Dynkin's Seminar* Semen Grigor'evich Gindikin, Ernest Borisovich Vinberg, 1995 In celebration of E B Dynkin's 70th birthday this book presents current papers by those who participated in Dynkin's seminar on Lie groups and Lie algebras in the late 1950s and early 1960s Dynkin had a major influence not only on mathematics but also on the students who attended his seminar many of whom are today's leading mathematicians in Russia and in the U S Dynkin's contributions to the theory of Lie groups is well known and the survey paper by Karpelevich Onishchik and Vinberg allows readers to gain a deeper understanding of this work Features several aspects of modern developo **Mathematical Reviews**, 2008 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 *Accurate and Efficient*

Computations with Structured Matrices Plamen Stefanov Koev, 2002 *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

Report PM, 1994 **The Cumulative Book Index**, 1992 A world list of books in the English language **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society, 1987

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