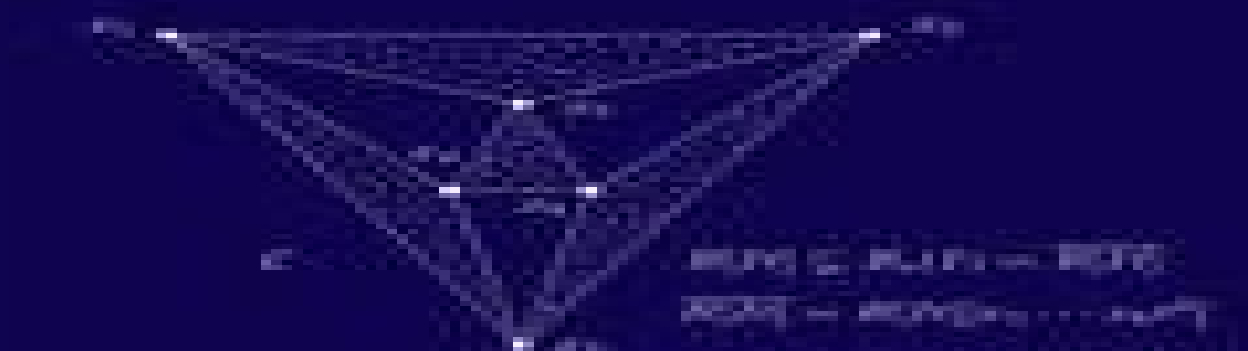


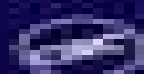
# Monomial Algebras

## Second Edition



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**Rafael H. Villarreal**

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# Monomial Algebras Monomial Algebras

**Lingjun Ying**



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Finitistic Dimension of Monomial Algebras Hongbo Shi,2002

**Wild Monomial Algebras** Andreas Rosenthal,1999

On Finite Dimensional Algebras Isomorphic to Monomial Algebras,1997

**Primitivity of Finitely Presented Monomial Algebras** Pinar Pekcagliyan,2008 We consider prime monomial algebras and we prove a special case of a conjecture of Jason P Bell and Agata Smoktunowicz We show that

a prime finitely presented monomial algebra is either primitive or satisfies a polynomial identity and has GK dimension 1 More generally we show that this result holds for automaton algebras that is monomial algebras whose set of nonzero words is recognized by a finite state machine

**Decomposition of Monomial Algebras** Janko Böhm,David Eisenbud,Max Joachim Nitsche,2012 Considering finite extensions  $K \subset A \subset K[B]$  of positive affine semigroup rings over a field  $K$  we have developed in [1] an algorithm to decompose  $K[B]$  as a direct sum of monomial ideals in  $K[A]$  By computing the regularity of homogeneous semigroup rings from the decomposition we have confirmed the Eisenbud Goto conjecture in a range of new cases not tractable by standard methods Here we first illustrate this technique and its implementation in our Macaulay2 package MonomialAlgebras by computing the decomposition and the regularity step by step for an explicit example We then focus on ring theoretic properties of simplicial semigroup rings From the characterizations given in [1] we develop and prove explicit algorithms testing properties like Buchsbaum Cohen Macaulay Gorenstein normal and seminormal all of which imply the Eisenbud Goto conjecture All algorithms are implemented in our Macaulay2 package

**Monomial Ideals, Computations and Applications** Anna M. Bigatti,Philippe Gimenez,Eduardo Sáenz-de-Cabezón,2013-08-24 This work covers three important aspects of monomial ideals in the three chapters Stanley decompositions by Jürgen Herzog Edge ideals by Adam Van Tuyl and Local cohomology by Josep Ivaréz Montaner The chapters written by top experts include computer tutorials that emphasize the computational aspects of the respective areas Monomial ideals and algebras are in a sense among the simplest structures in commutative algebra and the main objects of combinatorial commutative algebra Also they are of major importance for at least three reasons Firstly Gröbner basis theory allows us to treat certain problems on general polynomial ideals by means of monomial ideals Secondly the combinatorial structure of monomial ideals connects them to other combinatorial structures and allows us to solve problems on both sides of this correspondence using the techniques of each of the respective areas And thirdly the combinatorial nature of monomial ideals also makes them particularly well suited to the development of algorithms to work with them and then generate algorithms for more general structures

**Monomial Ideals and Their Decompositions** W. Frank Moore,Mark Rogers,Sean Sather-Wagstaff,2018-10-24 This textbook on combinatorial commutative algebra focuses on properties of monomial ideals in polynomial rings and their connections with other areas of mathematics such as combinatorics electrical engineering topology geometry and homological algebra Aimed toward advanced undergraduate students and graduate students who have taken a basic course in abstract algebra that includes polynomial rings and ideals this book serves as a core text for a course in combinatorial commutative algebra or as preparation for more advanced courses in the area The text contains over 600 exercises to provide readers with a hands on experience working with the material the exercises include computations of specific examples and proofs of general results Readers will receive a firsthand introduction to the computer algebra system Macaulay2 with tutorials and exercises for most sections of the text preparing them for significant computational work in the

area Connections to non monomial areas of abstract algebra electrical engineering combinatorics and other areas of mathematics are provided which give the reader a sense of how these ideas reach into other areas

***Monomial Ideals*** Jürgen Herzog, Takayuki Hibi, 2010-09-28 This book demonstrates current trends in research on combinatorial and computational commutative algebra with a primary emphasis on topics related to monomial ideals Providing a useful and quick introduction to areas of research spanning these fields *Monomial Ideals* is split into three parts Part I offers a quick introduction to the modern theory of Gröbner bases as well as the detailed study of generic initial ideals Part II supplies Hilbert functions and resolutions and some of the combinatorics related to monomial ideals including the Kruskal Katona theorem and algebraic aspects of Alexander duality Part III discusses combinatorial applications of monomial ideals providing a valuable overview of some of the central trends in algebraic combinatorics Main subjects include edge ideals of finite graphs powers of ideals algebraic shifting theory and an introduction to discrete polymatroids Theory is complemented by a number of examples and exercises throughout bringing the reader to a deeper understanding of concepts explored within the text Self contained and concise this book will appeal to a wide range of readers including PhD students on advanced courses experienced researchers and combinatorialists and non specialists with a basic knowledge of commutative algebra Since their first meeting in 1985 Jürgen Herzog Universität Duisburg Essen Germany and Takayuki Hibi Osaka University Japan have worked together on a number of research projects of which recent results are presented in this monograph

**(Co)homology of Monomial Algebras** Emil Sköldberg, 1997 *Covering Monomial Algebras* Rainer Nöthen, 1998

**Homological Dimensions of Monomial Algebras** Claude Cibils, 1991

**Generalizations of Quasi-hereditary Rings and Monomial Algebras** Darren D. Wick, 1995

**Path Algebras and Monomial Algebras of Finite GK-dimension as Noncommutative Homogeneous Coordinate Rings** Cody Holdaway, 2015 This thesis sets out to understand the categories  $\text{QGr } A$  where  $A$  is either a monomial algebra or a path algebra of finite Gelfand Kirillov dimension The principle questions are 1 What is the structure of the point modules up to isomorphism in  $\text{QGr } A$  2 Given two such algebras  $A$  and  $A'$  when is  $\text{QGr } A$  equivalent to  $\text{QGr } A'$  These two questions turn out to be intimately related It is shown that up to isomorphism in  $\text{QGr } A$  there are only finitely many point modules and these give all the simple objects in the category Then a finite quiver  $E_A$  which can be constructed from the algebra  $A$  rather simply is associated to the category  $\text{QGr } A$  The vertices of  $E_A$  are in bijection with the point modules and the arrows are determined by the extensions between point modules Lastly it is shown that  $\text{QGr } A$  is equivalent to  $\text{QGr } A'$  if and only if  $E_A \cong E_{A'}$

*Semigroup Algebras* Okninski, 2020-08-26 Gathers and unifies the results of the theory of noncommutative semigroup rings primarily drawing on the literature of the last 10 years and including several new results Okninski Warsaw U Poland restricts coverage to the ring theoretical properties for which a systematic treatment is current

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**Computational Methods for Representations of Groups and Algebras** P. Dräxler, G. Michler, C.M. Ringel, 2012-12-06 This book presents material from 3 survey lectures and 14 additional invited lectures given at the Euroconference Computational Methods for Representations of Groups and Algebras held at Essen University in April 1997 The purpose of this meeting was to provide a survey of general theoretical and computational methods and recent advances in the representation theory of groups and algebras The foundations of these research areas were laid in survey articles by P Dräxler and R Nienberg on Classification problems in the representation theory of finite dimensional algebras R A Wilson on Construction of finite matrix groups and E Green on Noncommutative Gröbner bases and projective resolutions Furthermore new applications of the computational methods in linear algebra to the revision of the classification of finite simple sporadic groups are presented Computational tools including high performance computations on supercomputers have become increasingly important for classification problems They are also inevitable for the construction of projective resolutions of finitely generated modules over finite dimensional algebras and the study of group cohomology and rings of invariants A major part of this book is devoted to a survey of algorithms for computing special examples in the study of Grothendieck groups quadratic forms and derived categories of finite dimensional algebras Open questions on Lie algebras Bruhat orders Coxeter groups and Kazhdan Lusztig polynomials are investigated with the aid of computer programs The contents of this book provide an overview on the present state of the art Therefore it will be very useful for graduate students and researchers in mathematics computer science and physics

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## **Table of Contents Monomial Algebras Monomial Algebras**

1. Understanding the eBook Monomial Algebras Monomial Algebras
  - The Rise of Digital Reading Monomial Algebras Monomial Algebras
  - Advantages of eBooks Over Traditional Books
2. Identifying Monomial Algebras Monomial Algebras
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Monomial Algebras Monomial Algebras
  - User-Friendly Interface
4. Exploring eBook Recommendations from Monomial Algebras Monomial Algebras
  - Personalized Recommendations
  - Monomial Algebras Monomial Algebras User Reviews and Ratings
  - Monomial Algebras Monomial Algebras and Bestseller Lists
5. Accessing Monomial Algebras Monomial Algebras Free and Paid eBooks

- Monomial Algebras Monomial Algebras Public Domain eBooks
  - Monomial Algebras Monomial Algebras eBook Subscription Services
  - Monomial Algebras Monomial Algebras Budget-Friendly Options
6. Navigating Monomial Algebras Monomial Algebras eBook Formats
    - ePub, PDF, MOBI, and More
    - Monomial Algebras Monomial Algebras Compatibility with Devices
    - Monomial Algebras Monomial Algebras Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Monomial Algebras Monomial Algebras
    - Highlighting and Note-Taking Monomial Algebras Monomial Algebras
    - Interactive Elements Monomial Algebras Monomial Algebras
  8. Staying Engaged with Monomial Algebras Monomial Algebras
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Monomial Algebras Monomial Algebras
  9. Balancing eBooks and Physical Books Monomial Algebras Monomial Algebras
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Monomial Algebras Monomial Algebras
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Monomial Algebras Monomial Algebras
    - Setting Reading Goals Monomial Algebras Monomial Algebras
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Monomial Algebras Monomial Algebras
    - Fact-Checking eBook Content of Monomial Algebras Monomial Algebras
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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