

MONOGRAPHS AND RESEARCH NOTES IN MATHEMATICS

# Monomial Algebras

Second Edition



Rafael H. Villarreal



CRC Press

Taylor & Francis Group

A CHAPMAN & HALL BOOK

# Monomial Algebras

**Andreas Rosenthal**

## Monomial Algebras:

**Monomial Algebras** Rafael Villarreal, 2018-10-08 Monomial Algebras Second Edition presents algebraic combinatorial and computational methods for studying monomial algebras and their ideals including Stanley Reisner rings monomial subrings Ehrhart rings and blowup algebras It emphasizes square free monomials and the corresponding graphs clutters or hypergraphs New to the Second Edition Four new chapters that focus on the algebraic properties of blowup algebras in combinatorial optimization problems of clutters and hypergraphs Two new chapters that explore the algebraic and combinatorial properties of the edge ideal of clutters and hypergraphs Full revisions of existing chapters to provide an up to date account of the subject Bringing together several areas of pure and applied mathematics this book shows how monomial algebras are related to polyhedral geometry combinatorial optimization and combinatorics of hypergraphs It directly links the algebraic properties of monomial algebras to combinatorial structures such as simplicial complexes posets digraphs graphs and clutters and linear optimization problems *Monomial Algebras* Rafael H. Villarreal, 2026-04-03 Monomial Algebras presents algebraic combinatorial and computational methods for studying monomial algebras and their ideals including Stanley Reisner rings monomial subrings Ehrhart rings and blowup algebras It emphasizes square free monomials and the corresponding graphs clutters or hypergraphs New to the Third Edition Two full new chapters covering linear and Reed Muller type codes chapter 9 and the containment problem and the resurgence of ideals chapter 16 Extensive addition of new sections throughout the existing chapters to bring the book up to date and make it even more comprehensive A new appendix detailing software procedures for use alongside the book Bringing together several areas of pure and applied mathematics this book shows how monomial algebras are related to polyhedral geometry combinatorial optimization and combinatorics of hypergraphs It directly links the algebraic properties of monomial algebras to combinatorial structures such as simplicial complexes posets digraphs graphs and clutters and linear optimization problems Monomial Algebras Rafael Villarreal, 2000-12-05 An introduction to the methods used to study monomial algebras and their presentation ideals including Stanley Reisner rings subrings and toric varieties It emphasizes square free quadratics and effective computational methods and applies a combinatorial description of the integral closure of the corresponding monomial subring to graph theory *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 Monomial Algebras, 2nd Edition Rafael Villarreal, 2018 Monomial Algebras Second Edition presents algebraic combinatorial and computational methods for studying monomial algebras and their ideals including Stanley Reisner rings monomial subrings Ehrhart rings and blowup algebras It emphasizes square free monomials and the corresponding graphs clutters or hypergraphs New to the Second Edition Four new chapters that focus on the algebraic properties of blowup algebras in

combinatorial optimization problems of clutters and hypergraphs Two new chapters that explore the algebraic and combinatorial properties of the edge ideal of clutters and hypergraphs Full revisions of existing chapters to provide an up to date account of the subject Bringing together several areas of pure and applied mathematics this book shows how monomial algebras are related to polyhedral geometry combinatorial optimization and combinatorics of hypergraphs It directly links the algebraic properties of monomial algebras to combinatorial structures such as simplicial complexes posets digraphs graphs and clutters and linear optimization problems *Handbook of Algebra* ,2003-10-15 *Handbook of Algebra*

**Mathematical Foundations of Computer Science 2009** Rastislav Královič,Damian Niwinski,2009-08-06 This book constitutes the refereed proceedings of the 34th International Symposium on Mathematical Foundations of Computer Science MFCS 2009 held in Novy Smokovec High Tatras Slovakia in August 2009 The 56 revised full papers presented together with 7 invited lectures were carefully reviewed and selected from 148 submissions All current aspects in theoretical computer science and its mathematical foundations are addressed including algorithmic game theory algorithmic learning theory algorithms and data structures automata grammars and formal languages bioinformatics complexity computational geometry computer assisted reasoning concurrency theory cryptography and security databases and knowledge based systems formal specifications and program development foundations of computing logic in computer science mobile computing models of computation networks parallel and distributed computing quantum computing semantics and verification of programs theoretical issues in artificial intelligence

**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 Nrenberg 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

**Effective Methods in Algebraic Geometry** T. Mora,C. Traverso,2012-12-06 The symposium MEGA 90 Effective Methods in Algebraic Geometry was held in Castiglioncello Livorno Italy in April 17-21 1990 The themes we quote from the Call for papers were the following Effective methods and complexity issues in commutative algebra projective geometry real geometry algebraic number theory Algebraic geometric methods in algebraic computing Contributions in related fields computational aspects of group theory differential algebra and geometry algebraic and differential topology etc were also welcome The origin and the motivation of such a meeting that is supposed to be the first of a series deserves to be explained The subject the theory and the practice of computation in algebraic geometry and related domains from the mathematical viewpoint has been one of the themes of the symposia organized by SIGSAM the Special Interest Group for Symbolic and Algebraic Manipulation of the Association for Computing Machinery SAME Symbolic and Algebraic Manipulation in Europe and AAECC the semantics of the name is varying an average meaning is Applied Algebra and Error Correcting Codes

**(Co)homology of Monomial Algebras** Emil Sköldberg,1997 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

**Finitistic Dimension of Monomial Algebras** Hongbo Shi,2002 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

### **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

,2007 **On Finite Dimensional Algebras Isomorphic to Monomial Algebras** ,1997 Monomial Ideals

Computations and Applications Anna M. Bigatti,Philippe Gimenez,Eduardo Sáenz-de-Cabezón,2013-08-24 This work covers three important aspects of monomials ideals in the three chapters Stanley decompositions by J rgen Herzog Edge ideals by Adam Van Tuyl and Local cohomology by Josep lvarez 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 Gr bner 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

### **Wild**

**Monomial Algebras** Andreas Rosenthal,1999 **Decomposition of Monomial Algebras** Janko Böhm,David

Eisenbud,Max Joachim Nitsche,2012 Considering finite extensions  $K \subset A \subset B$  of positive affine semigroup rings over a field  $K$  we have developed in 1 an algorithm to decompose  $K \subset B$  as a direct sum of monomial ideals in  $K \subset A$  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

### Applied

Algebra, Algebraic Algorithms, and Error-correcting Codes ,1988

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