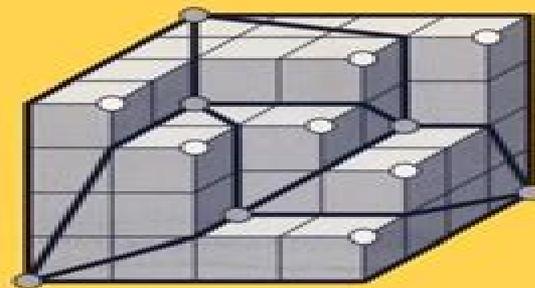# Graduate Texts in Mathematics

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Combinatorial Commutative Algebra

Springer

Combinatorial Commutative Algebra

Rafael H. Villarreal

Combinatorial Commutative Algebra:

   Combinatorial Commutative Algebra Ezra Miller,Bernd Sturmfels,2005-06-21 Recent developments are covered Contains over 100 figures and 250 exercises Includes complete proofs   *Combinatorial Commutative Algebra* Ezra Miller,Bernd Sturmfels,2008-11-01 Recent developments are covered Contains over 100 figures and 250 exercises Includes complete proofs   **Combinatorics and Commutative Algebra** Richard P. Stanley,2007-12-13 Some remarkable connections between commutative algebra and combinatorics have been discovered in recent years This book provides an overview of two of the main topics in this area The first concerns the solutions of linear equations in nonnegative integers Applications are given to the enumeration of integer stochastic matrices or magic squares the volume of polytopes combinatorial reciprocity theorems and related results The second topic deals with the face ring of a simplicial complex and includes a proof of the Upper Bound Conjecture for Spheres An introductory chapter giving background information in algebra combinatorics and topology broadens access to this material for non specialists New to this edition is a chapter surveying more recent work related to face rings focusing on applications to f vectors   **Combinatorics and Commutative Algebra** Richard Stanley,1996-03-01 Stanley represents a broad perspective with respect to two significant topics from Combinatorial Commutative Algebra 1 The theory of invariants of a torus acting linearly on a polynomial ring and 2 The face ring of a simplicial complex In this new edition the author further develops some interesting properties of face rings with application to combinatorics   **Combinatorial Aspects of Commutative Algebra** Viviana Ene,Ezra Miller,2009-11-25 This volume contains the proceedings of the Exploratory Workshop on Combinatorial Commutative Algebra and Computer Algebra which took place in Mangalia Romania on May 29 31 2008 It includes research papers and surveys reflecting some of the current trends in the development of combinatorial commutative algebra and related fields This volume focuses on the presentation of the newest research results in minimal resolutions of polynomial ideals combinatorial techniques and applications Stanley Reisner theory and Alexander duality and applications of commutative algebra and of combinatorial and computational techniques in algebraic geometry and topology Both the algebraic and combinatorial perspectives are well represented and some open problems in the above directions have been included

   Combinatorial Commutative Algebra Mathematisches Forschungsinstitut Oberwolfach,2004   **Computations and Combinatorics in Commutative Algebra** Anna M. Bigatti,Philippe Gimenez,Eduardo Sáenz-de-Cabezón,2017-03-14 Featuring up to date coverage of three topics lying at the intersection of combinatorics and commutative algebra namely Koszul algebras primary decompositions and subdivision operations in simplicial complexes this book has its focus on computations Computations and Combinatorics in Commutative Algebra has been written by experts in both theoretical and computational aspects of these three subjects and is aimed at a broad audience from experienced researchers who want to have an easy but deep review of the topics covered to postgraduate students who need a quick introduction to the techniques

The computational treatment of the material including plenty of examples and code will be useful for a wide range of professionals interested in the connections between commutative algebra and combinatorics **Geometric And Combinatorial Aspects Of Commutative Algebra** Jurgen Herzog,Gaetana Restuccia,2001-03-06 This work is based on the lectures presented at the International Conference of Commutative Algebra and Algebraic Geometry held in Messina Italy It discusses developments and advances in commutative algebra algebraic geometry and combinatorics highlighting the theory of projective schemes the geometry of curves determinantal and stable idea **Computational Commutative Algebra and Combinatorics** Takayuki Hibi,2002 This volume constitutes the proceedings of the International Conference on Computational Commutative Algebra and Combinatorics held in Osaka Japan It contains excellent survey articles and research papers on various topics related to the theme of the conference Of particular interest are two survey articles Algebraic Shifting by Gil Kalai and Generic Initial Ideals and Graded Betti Numbers by Jurgen Herzog The volume is suitable for graduate students and researchmathematicians interested in discrete mathematics Information for our distributors Published for the Mathematical Society of Japan by Kinokuniya Tokyo and distributed worldwide except in Japan by the AMS All commercial channel discounts apply Progress in Commutative Algebra 1 Christopher Francisco,Lee C. Klingler,Sean Sather-Wagstaff,Janet C. Vassilev,2012-04-26 This is the first of two volumes of a state of the art survey article collection which originates from three commutative algebra sessions at the 2009 Fall Southeastern American Mathematical Society Meeting at Florida Atlantic University The articles reach into diverse areas of commutative algebra and build a bridge between Noetherian and non Noetherian commutative algebra These volumes present current trends in two of the most active areas of commutative algebra non noetherian rings factorization ideal theory integrality and noetherian rings the local theory graded situation and interactions with combinatorics and geometry This volume contains combinatorial and homological surveys The combinatorial papers document some of the increasing focus in commutative algebra recently on the interaction between algebra and combinatorics Specifically one can use combinatorial techniques to investigate resolutions and other algebraic structures as with the papers of Fl ystad on Boij S derburg theory of Geramita Harbourne and Migliore and of Cooper on Hilbert functions of Clark on minimal poset resolutions and of Mermin on simplicial resolutions One can also utilize algebraic invariants to understand combinatorial structures like graphs hypergraphs and simplicial complexes such as in the paper of Morey and Villarreal on edge ideals Homological techniques have become indispensable tools for the study of noetherian rings These ideas have yielded amazing levels of interaction with other fields like algebraic topology via differential graded techniques as well as the foundations of homological algebra analysis via the study of D modules and combinatorics as described in the previous paragraph The homological articles the editors have included in this volume relate mostly to how homological techniques help us better understand rings and singularities both noetherian and non noetherian such as in the papers by Roberts Yao Hummel and Leuschke **Commutative Algebra and Its**

Connections to Geometry Alberto Corso,Claudia Polini,2011-10-20 This volume contains papers based on presentations given at the Pan American Advanced Studies Institute PASI on commutative algebra and its connections to geometry which was held August 3 14 2009 at the Universidade Federal de Pernambuco in Olinda Brazil The main goal of the program was to detail recent developments in commutative algebra and interactions with such areas as algebraic geometry combinatorics and computer algebra The articles in this volume concentrate on topics central to modern commutative algebra the homological conjectures problems in positive and mixed characteristic tight closure and its interaction with birational geometry integral dependence and blowup algebras equisingularity theory Hilbert functions and multiplicities combinatorial commutative algebra Grobner bases and computational algebra   **Combinatorial Aspects of Commutative Algebra and Algebraic Geometry** Gunnar Fløystad,Trygve Johnsen,Andreas Leopold Knutsen,2011-05-16 The Abel Symposium 2009 Combinatorial aspects of Commutative Algebra and Algebraic Geometry held at Voss Norway featured talks by leading researchers in the field This is the proceedings of the Symposium presenting contributions on syzygies tropical geometry Boij S derberg theory Schubert calculus and quiver varieties The volume also includes an introductory survey on binomial ideals with applications to hypergeometric series combinatorial games and chemical reactions The contributions pose interesting problems and offer up to date research on some of the most active fields of commutative algebra and algebraic geometry with a combinatorial flavour   *A Combinatorial Commutative Algebra* Irene Márquez-Corbella,Universidad de Valladolid. Departamento de Matemática Aplicada,2013   Computational Commutative Algebra and Combinatorics Takayuki Hibi,2002 This volume constitutes the proceedings of the International Conference on Computational Commutative Algebra and Combinatorics held in Osaka Japan It contains excellent survey articles and research papers on various topics related to the theme of the conference Of particular interest are two survey articles Algebraic Shifting by Gil Kalai and Generic Initial Ideals and Graded Betti Numbers by Jurgen Herzog The volume is suitable for graduate students and researchmathematicians interested in discrete mathematics Information for our distributors Published for the Mathematical Society of Japan by Kinokuniya Tokyo and distributed worldwide except in Japan by the AMS All commercial channel discounts apply   **Combinatorics and Commutative Algebra** Richard P. Stanley,1983   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, 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 <u>Monomial Algebras</u> Rafael H. 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,2026-04-14 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   *Surveys in Combinatorics 2021* Konrad K. Dabrowski,Maximilien Gadouleau,Nicholas Georgiou,Matthew Johnson,George B. Mertzios,Daniël Paulusma,2021-06-24 These nine articles provide up to date surveys of topics of contemporary interest in combinatorics

Combinatorial Commutative Algebra Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Combinatorial Commutative Algebra**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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