

# Graduate Texts in Mathematics

**David Eisenbud**

**Commutative  
Algebra with a View  
Toward Algebraic  
Geometry**



**Springer-Verlag**

# Commutative Algebra With A View Toward Algebraic Geometry Graduate Texts In Mathematics Vol 15

**JA Banks**



## **Commutative Algebra With A View Toward Algebraic Geometry Graduate Texts In Mathematics Vol 15:**

**Commutative Algebra** David Eisenbud, 2013-12-01 Commutative Algebra is best understood with knowledge of the geometric ideas that have played a great role in its formation in short with a view towards algebraic geometry The author presents a comprehensive view of commutative algebra from basics such as localization and primary decomposition through dimension theory differentials homological methods free resolutions and duality emphasizing the origins of the ideas and their connections with other parts of mathematics Many exercises illustrate and sharpen the theory and extended exercises give the reader an active part in complementing the material presented in the text One novel feature is a chapter devoted to a quick but thorough treatment of Grobner basis theory and the constructive methods in commutative algebra and algebraic geometry that flow from it Applications of the theory and even suggestions for computer algebra projects are included This book will appeal to readers from beginners to advanced students of commutative algebra or algebraic geometry To help beginners the essential ideals from algebraic geometry are treated from scratch Appendices on homological algebra multilinear algebra and several other useful topics help to make the book relatively self contained Novel results and presentations are scattered throughout the text

*The Numerical Solution of Systems of Polynomials Arising in Engineering and Science* Andrew John Sommese, Charles Weldon Wampler (II.), 2005 Written by the founders of the new and expanding field of numerical algebraic geometry this is the first book that uses an algebraic geometric approach to the numerical solution of polynomial systems and also the first one to treat numerical methods for finding positive dimensional solution sets The text covers the full theory from methods developed for isolated solutions in the 1980 s to the most recent research on positive dimensional sets

**Topics in Hyperplane Arrangements, Polytopes and Box-Splines** Corrado De Concini, Claudio Procesi, 2010-08-30 Topics in Hyperplane Arrangements Polytopes and Box Splines brings together many areas of research that focus on methods to compute the number of integral points in suitable families or variable polytopes The topics introduced expand upon differential and difference equations approximation theory cohomology and module theory This book written by two distinguished authors engages a broad audience by proving the a strong foundation This book may be used in the classroom setting as well as a reference for researchers

*Sum of Squares: Theory and Applications* Pablo A. Parrilo, Rekha R. Thomas, 2020 This volume is based on lectures delivered at the 2019 AMS Short Course Sum of Squares Theory and Applications held January 14 15 2019 in Baltimore Maryland This book provides a concise state of the art overview of the theory and applications of polynomials that are sums of squares This is an exciting and timely topic with rich connections to many areas of mathematics including polynomial and semidefinite optimization real and convex algebraic geometry and theoretical computer science The six chapters introduce and survey recent developments in this area specific topics include the algebraic and geometric aspects of sums of squares and spectrahedra lifted representations of convex sets and the algorithmic and computational implications of viewing sums of squares as a meta algorithm The book also showcases

practical applications of the techniques across a variety of areas including control theory statistics finance and machine learning

Solving Systems of Polynomial Equations Bernd Sturmfels, 2002 Bridging a number of mathematical disciplines and exposing many facets of systems of polynomial equations Bernd Sturmfels's study covers a wide spectrum of mathematical techniques and algorithms both symbolic and numerical

**Theories of Dimension from Ancient to Modern Times** Dale Martin Johnson, 2025-12-02 This book provides a history and analysis of the ideas problems concepts and theories of dimension from ancient to modern times It focuses primarily on topological and to a lesser extent measure theoretic approaches It offers a detailed account of the contributions of key mathematicians who shaped dimension theory including Bernard Bolzano Bernhard Riemann Georg Cantor Richard Dedekind Henri Poincaré L. E. J. Brouwer Paul Urysohn Karl Menger Witold Hurewicz Paul Alexandroff and Felix Hausdorff The book examines the twists and turns in the development of the subject including its controversies and explores the philosophical aspects of its history As the first in depth historical study of dimension theory it serves as a reference for historians and philosophers of mathematics It also provides general historical background for students and researchers with broader mathematical interests

*Applied Algebra, Algebraic Algorithms, and Error-correcting Codes*, 1999

*Linear Time-Invariant Systems, Behaviors and Modules* Ulrich Oberst, Martin Scheicher, Ingrid Scheicher, 2020-06-27 This book comprehensively examines various significant aspects of linear time invariant systems theory both for continuous time and discrete time Using a number of new mathematical methods it provides complete and exact proofs of all the systems theoretic and electrical engineering results as well as important results and algorithms demonstrated with nontrivial computer examples The book is intended for readers who have completed the first two years of a university mathematics course All further mathematical results required are proven in the book

**The American Mathematical Monthly**, 2008

**Rendiconti Del Seminario Matematico Della Università Di Padova** Università di Padova. Seminario matematico, 2011

Associated and Attached Primes Over Noncommutative Rings Scott Arthur Annin, 2002

*Constructive Algebra and Systems Theory* Michiel Hazewinkel, Bernard Hanzon, 2006

**Constructive Algebra and Systems Theory**, 1951

**Bulletin of the American Mathematical Society**, 1996

**Quaestiones Mathematicae**, 2005

Journal of Algebraic Combinatorics, 2000

**Annales Scientifiques de L'École Normale Supérieure**, 2007

**Annales scientifiques de l'École normale supérieure** École normale supérieure (France), 2007

Hokkaido Mathematical Journal, 2015

Numerical Analysis and Applied Mathematics Theodore E. Simos, George Psihoyios, C. Tsitouras, 2007-09-14 This volume contains peer reviewed papers presented at the International Conference on Numerical Analysis and Applied Mathematics 2007 ICNAAM 2007 This conference brought together leading scientists of the international Numerical and Applied Mathematics community More than 350 papers were submitted to be considered for presentation at ICNAAM 2007 From these submissions 189 papers were selected after an international peer review by at least two independent reviewers

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