

**Free Resolutions  
in Commutative  
Algebra and  
Algebraic Geometry**  
*Sundance 90*

Edited by  
**David Eisenbud**  
**Craig Huneke**



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# Free Resolutions In Commutative Algebra And Algebraic Geometry

**David Eisenbud, Irena Peeva**



## **Free Resolutions In Commutative Algebra And Algebraic Geometry:**

**Free Resolutions in Commutative Algebra and Algebraic Geometry** David Eisenbud, Craig Huneke, 2023-05-31 The selected contributions in this volume originated at the Sundance conference which was devoted to discussions of current work in the area of free resolutions The papers include new research not otherwise published and expositions that develop current problems likely to influence future developments in the field

**Free Resolutions in Commutative Algebra and Algebraic Geometry**, 2023 The selected contributions in this volume originated at the Sundance conference which was devoted to discussions of current work in the area of free resolutions The papers include new research not otherwise published and expositions that develop current problems likely to influence future developments in the field

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

**Commutative Algebra** Irena Peeva, 2022-02-18 This contributed volume is a follow up to the 2013 volume of the same title published in honor of noted Algebraist David Eisenbud's 65th birthday It brings together the highest quality expository papers written by leaders and talented junior mathematicians in the field of Commutative Algebra Contributions cover a very wide range of topics including core areas in Commutative Algebra and also relations to Algebraic Geometry Category Theory Combinatorics Computational Algebra Homological Algebra Hyperplane Arrangements and Non commutative Algebra The book aims to showcase the area and aid junior mathematicians and researchers who are new to the field in broadening their background and gaining a deeper understanding of the current research in this area Exciting developments are surveyed and many open problems are discussed with the aspiration to inspire the readers and foster further research

*Minimal Free Resolutions over Complete Intersections* David Eisenbud, Irena Peeva, 2016-03-08 This book introduces a theory of higher matrix factorizations for regular sequences and uses it to describe the minimal free resolutions of high syzygy modules over complete intersections Such resolutions have

attracted attention ever since the elegant construction of the minimal free resolution of the residue field by Tate in 1957 The theory extends the theory of matrix factorizations of a non zero divisor initiated by Eisenbud in 1980 which yields a description of the eventual structure of minimal free resolutions over a hypersurface ring Matrix factorizations have had many other uses in a wide range of mathematical fields from singularity theory to mathematical physics Surveys on Recent Developments in Algebraic Geometry Izzet Coskun, Tommaso de Fernex, Angela Gibney, 2017-07-12 The algebraic geometry community has a tradition of running a summer research institute every ten years During these influential meetings a large number of mathematicians from around the world convene to overview the developments of the past decade and to outline the most fundamental and far reaching problems for the next The meeting is preceded by a Bootcamp aimed at graduate students and young researchers This volume collects ten surveys that grew out of the Bootcamp held July 6 10 2015 at University of Utah Salt Lake City Utah These papers give succinct and thorough introductions to some of the most important and exciting developments in algebraic geometry in the last decade Included are descriptions of the striking advances in the Minimal Model Program moduli spaces derived categories Bridgeland stability motivic homotopy theory methods in characteristic and Hodge theory Surveys contain many examples exercises and open problems which will make this volume an invaluable and enduring resource for researchers looking for new directions **Commutative Algebra with a View Toward Algebraic Geometry** David Eisenbud, 1989 *Commutative Algebra* Alberto Corso, Philippe Gimenez, Maria Vaz Pinto, Santiago Zarzuela, 2005-08-15 Packed with contributions from international experts *Commutative Algebra Geometric Homological Combinatorial and Computational Aspects* features new research results that borrow methods from neighboring fields such as combinatorics homological algebra polyhedral geometry symbolic computation and topology This book consists of articles pres *Six Lectures on Commutative Algebra* J. Elias, J. M. Giral, Rosa M. Miró-Roig, Santiago Zarzuela, 2010-03-17 Interest in commutative algebra has surged over the past decades In order to survey and highlight recent developments in this rapidly expanding field the Centre de Recerca Matematica in Bellaterra organized a ten days Summer School on Commutative Algebra in 1996 Lectures were presented by six high level specialists L Avramov Purdue M K Green UCLA C Huneke Purdue P Schenzel Halle G Valla Genova and W V Vasconcelos Rutgers providing a fresh and extensive account of the results techniques and problems of some of the most active areas of research The present volume is a synthesis of the lectures given by these authors Research workers as well as graduate students in commutative algebra and nearby areas will find a useful overview of the field and recent developments in it Reviews All six articles are at a very high level they provide a thorough survey of results and methods in their subject areas illustrated with algebraic or geometric examples *Acta Scientiarum Mathematicarum* Avramov lecture it contains all the major results on infinite free resolutions it explains carefully all the different techniques that apply it provides complete proofs This will be extremely helpful for the novice as well as the experienced Mathematical reviews Huneke lecture The topic is tight closure a theory developed by M

Hochster and the author which has in a short time proved to be a useful and powerful tool The paper is extremely well organized written and motivated Zentralblatt MATH Schenzel lecture this paper is an excellent introduction to applications of local cohomology Zentralblatt MATH Valla lecture since he is an acknowledged expert on Hilbert functions and since his interest has been so broad he has done a superb job in giving the readers a lively picture of the theory Mathematical reviews Vasconcelos lecture This is a very useful survey on invariants of modules over noetherian rings relations between them and how to compute them Zentralblatt MATH      **Combinatorial Commutative Algebra** Ezra Miller, Bernd

Sturmfels, 2004-12-21 Recent developments are covered Contains over 100 figures and 250 exercises Includes complete proofs      *Commutative Algebra Methods for Coding Theory* Ștefan Ovidiu I. Tohăneanu, 2024-07-01 This book aims to be a comprehensive treatise on the interactions between Coding Theory and Commutative Algebra With the help of a multitude of examples it expands and systematizes the known and versatile commutative algebraic framework used since the early 90 s to study linear codes The book provides the necessary background for the reader to advance with similar research on coding theory topics from commutative algebraic perspectives      **Women in Commutative Algebra** Claudia Miller, Janet Striuli, Emily E. Witt, 2022-03-18 This volume features contributions from the Women in Commutative Algebra WICA workshop held at the Banff International Research Station BIRS from October 20 25 2019 run by the Pacific Institute of Mathematical Sciences PIMS The purpose of this meeting was for groups of mathematicians to work on joint research projects in the mathematical field of Commutative Algebra and continue these projects together long distance after its close The chapters include both direct results and surveys with contributions from research groups and individual authors The WICA conference was the first of its kind in the large and vibrant area of Commutative Algebra and this volume is intended to showcase its important results and to encourage further collaboration among marginalized practitioners in the field It will be of interest to a wide range of researchers from PhD students to senior experts      **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

**Combinatorial Algebraic Geometry** Aldo Conca,Sandra Di Rocco,Jan Draisma,June Huh,Bernd Sturmfels,Filippo Viviani,2014-05-15 Combinatorics and Algebraic Geometry have enjoyed a fruitful interplay since the nineteenth century Classical interactions include invariant theory theta functions and enumerative geometry The aim of this volume is to introduce recent developments in combinatorial algebraic geometry and to approach algebraic geometry with a view towards applications such as tensor calculus and algebraic statistics A common theme is the study of algebraic varieties endowed with a rich combinatorial structure Relevant techniques include polyhedral geometry free resolutions multilinear algebra projective duality and compactifications

**A Singular Introduction to Commutative Algebra** Gert-Martin Greuel,Gerhard Pfister,2012-12-06 In theory there is no difference between theory and practice In practice there is Yogi Berra A SINGULAR Introduction to Commutative Algebra offers a rigorous introduction to commutative algebra and at the same time provides algorithms and computational practice In this book we do not separate the theoretical and the computational part Coincidentally as new concepts are introduced it is consequently shown by means of concrete examples and general procedures how these concepts are handled by a computer We believe that this combination of theory and practice will provide not only a fast way to enter a rather abstract field but also a better understanding of the theory showing concurrently how the theory can be applied We exemplify the computational part by using the computer algebra system SINGULAR a system for polynomial computations which was developed in order to support mathematical research in commutative algebra algebraic geometry and singularity theory As the restriction to a specific system is necessary for such an exposition the book should be useful also for users of other systems such as Macaulay2 and CoCoA with similar goals Indeed once the algorithms and the method of their application in one system is known it is usually not difficult to transfer them to another system

Computer Algebra in Scientific Computing Andreas Weber,2019-11-04 Although scientific computing is very often associated with numeric computations the use of computer algebra methods in scientific computing has obtained considerable attention in the last two decades Computer algebra methods are especially suitable for parametric analysis of the key properties of systems arising in scientific computing The expression based computational answers generally provided by these methods are very appealing as they directly relate properties to parameters and speed up testing

and tuning of mathematical models through all their possible behaviors This book contains 8 original research articles dealing with a broad range of topics ranging from algorithms data structures and implementation techniques for high performance sparse multivariate polynomial arithmetic over the integers and rational numbers over methods for certifying the isolated zeros of polynomial systems to computer algebra problems in quantum computing     *Computational Methods in Commutative Algebra and Algebraic Geometry* Wolmer V. Vasconcelos, David Eisenbud, 1998 This ACM volume in computational algebra deals with methods and techniques to tackle problems that can be represented by data structures which are essentially matrices with polynomial entries mediated by the disciplines of commutative algebra and algebraic geometry It relates discoveries by a growing interdisciplinary group of researchers in the past decade It highlights the use of advanced techniques to bring down the cost of computation The book includes concrete algorithms written in MACAULAY It is intended for advanced students and researchers with interests both in algebra and computation Many parts of it can be read by anyone with a basic abstract algebra course     *Threading Homology Through Algebra* G. Boffi, David Buchsbaum, 2006-06-29 Aimed at graduate students and researchers in mathematics this book takes homological themes such as Koszul complexes and their generalizations and shows how these can be used to clarify certain problems in selected parts of algebra as well as their success in solving a number of them     **Proceedings Of The International Congress Of Mathematicians 2010 (Icm 2010) (In 4 Volumes) - Vol. I: Plenary Lectures And Ceremonies, Vols. Ii-iv: Invited Lectures** Rajendra Bhatia, Arup Pal, G Rangarajan, V Srinivas, M Vanninathan, 2011-06-06 ICM 2010 proceedings comprises a four volume set containing articles based on plenary lectures and invited section lectures the Abel and Noether lectures as well as contributions based on lectures delivered by the recipients of the Fields Medal the Nevanlinna and Chern Prizes The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress

*Syzygies and Hilbert Functions* Irena Peeva, 2007-03-20 Hilbert functions and resolutions are both central objects in commutative algebra and fruitful tools in the fields of algebraic geometry combinatorics commutative algebra and computational algebra Spurred by recent research in this area *Syzygies and Hilbert Functions* explores fresh developments in the field as well as fundamental concepts

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banquet disguised as robbers where they will murder duncan and malcolm

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