

Algebraic Geometry and Commutative Algebra

Linsen Chou



Commutative Algebra Algebraic Geometry

Michael Seilmaier



Commutative Algebra Algebraic Geometry:

Introduction to Commutative Algebra and Algebraic Geometry Ernst Kunz, 2012-11-06 Originally published in 1985 this classic textbook is an English translation of *Einführung in die kommutative Algebra und algebraische Geometrie* As part of the Modern Birkhäuser Classics series the publisher is proud to make *Introduction to Commutative Algebra and Algebraic Geometry* available to a wider audience Aimed at students who have taken a basic course in algebra the goal of the text is to present important results concerning the representation of algebraic varieties as intersections of the least possible number of hypersurfaces and a closely related problem with the most economical generation of ideals in Noetherian rings Along the way one encounters many basic concepts of commutative algebra and algebraic geometry and proves many facts which can then serve as a basic stock for a deeper study of these subjects [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 Gröbner 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

Algebraic K-Theory, Commutative Algebra, and Algebraic Geometry R. Keith Dennis, 1992 In the mid 1960s several Italian mathematicians began to study the connections between classical arguments in commutative algebra and algebraic geometry and the contemporaneous development of algebraic K theory in the US These connections were exemplified by the work of Andreotti Bombieri Salmon and Traverso on seminormality and by Bass Murthy on the Picard groups of polynomial rings Interactions proceeded far beyond this initial point to encompass Chow groups of singular varieties complete intersections and applications of K theory to arithmetic and real geometry This volume contains the proceedings from a US Italy Joint Summer Seminar which focused on this circle of ideas The conference held in June 1989 in Santa Margherita Ligure Italy was supported jointly by the Consiglio Nazionale delle Ricerche and the National Science Foundation The book contains contributions from some of the leading experts in this area **Algebraic Geometry and Commutative Algebra** [Computational Methods in Commutative Algebra and Algebraic Geometry](#)

Wolmer Vasconcelos,2004-05-18 This ACM volume deals with tackling 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 The discoveries stem from an interdisciplinary branch of research which has been growing steadily over the past decade The author covers a wide range from showing how to obtain deep heuristics in a computation of a ring a module or a morphism to developing means of solving nonlinear systems of equations highlighting the use of advanced techniques to bring down the cost of computation Although intended for advanced students and researchers with interests both in algebra and computation many parts may be read by anyone with a basic abstract algebra course Algebraic Geometry and Commutative Algebra Siegfried Bosch,2022-04-22 Algebraic Geometry is a fascinating branch of Mathematics that combines methods from both Algebra and Geometry It transcends the limited scope of pure Algebra by means of geometric construction principles Putting forward this idea Grothendieck revolutionized Algebraic Geometry in the late 1950s by inventing schemes Schemes now also play an important role in Algebraic Number Theory a field that used to be far away from Geometry The new point of view paved the way for spectacular progress such as the proof of Fermat s Last Theorem by Wiles and Taylor This book explains the scheme theoretic approach to Algebraic Geometry for non experts while more advanced readers can use it to broaden their view on the subject A separate part presents the necessary prerequisites from Commutative Algebra thereby providing an accessible and self contained introduction to advanced Algebraic Geometry Every chapter of the book is preceded by a motivating introduction with an informal discussion of its contents and background Typical examples and an abundance of exercises illustrate each section Therefore the book is an excellent companion for self studying or for complementing skills that have already been acquired It can just as well serve as a convenient source for reading course material and in any case as supplementary literature The present edition is a critical revision of the earlier text **Introduction to Commutative Algebra and Algebraic Geometry** Ernst Kunz,1984 It has been estimated that at the present stage of our knowledge one could give a 200 semester course on commutative algebra and algebraic geometry without ever repeating himself So any introduction to this subject must be highly selective I first want to indicate what point of view guided the selection of material for this book This introduction arose from lectures for students who had taken a basic course in algebra and could therefore be presumed to have a knowledge of linear algebra ring and field theory and Galois theory The present text shouldn t require much more In the lectures and in this text I have undertaken with the fewest possible auxiliary means to lead up to some recent results of commutative algebra and algebraic geometry concerning the representation of algebraic varieties as in tersections of the least possible number of hypersurfaces and a closely related problem with the most economical generation of ideals in Noetherian rings The question of the equations needed to describe an algebraic variety was addressed by Kronecker in 1882 In the 1940s it was chiefly Perron who was interested in this question his discussions with Severi made the problem known and contributed to sharpening the relevant concepts Thanks

to the general progress of commutative algebra many beautiful results in this circle of questions have been obtained mainly after the solution of Serre's problem on projective modules. Because of their relatively elementary character they are especially suitable for an introduction to commutative algebra.

Commutative Algebra and Noncommutative Algebraic Geometry David Eisenbud, 2015 *Introduction To Algebraic Geometry And Commutative Algebra* Dilip P Patil, Uwe Storch, 2010-03-31 This introductory textbook for a graduate course in pure mathematics provides a gateway into the two difficult fields of algebraic geometry and commutative algebra. Algebraic geometry supported fundamentally by commutative algebra is a cornerstone of pure mathematics. Along the lines developed by Grothendieck this book delves into the rich interplay between algebraic geometry and commutative algebra. A selection is made from the wealth of material in the discipline along with concise yet clear definitions and synopses.

Commutative Algebra and Algebraic Geometry Freddy Van Oystaeyen, 1999-03-31 Contains contributions by over 25 leading international mathematicians in the areas of commutative algebra and algebraic geometry. The text presents developments and results based on and inspired by the work of Mario Fiorentini. It covers topics ranging from almost numerical invariants of algebraic curves to deformation of projective schemes.

Undergraduate Commutative Algebra Miles Reid, 1995-11-30 Commutative algebra is at the crossroads of algebra, number theory and algebraic geometry. This textbook is affordable and clearly illustrated and is intended for advanced undergraduate or beginning graduate students with some previous experience of rings and fields. Alongside standard algebraic notions such as generators of modules and the ascending chain condition the book develops in detail the geometric view of a commutative ring as the ring of functions on a space. The starting point is the Nullstellensatz which provides a close link between the geometry of a variety V and the algebra of its coordinate ring $A_k(V)$. However many of the geometric ideas arising from varieties apply also to fairly general rings. The final chapter relates the material of the book to more advanced topics in commutative algebra and algebraic geometry. It includes an account of some famous pathological examples of Akizuki and Nagata and a brief but thought provoking essay on the changing position of abstract algebra in today's world.

Commutative Algebra and Noncommutative Algebraic Geometry David Eisenbud, Srikanth B. Iyengar, Anurag K. Singh, J. Toby Stafford, Michel Van den Bergh, 2015-11-19 This book surveys fundamental current topics in these two areas of research emphasising the lively interaction between them. Volume 2 focuses on the most recent research.

Algebraic Geometry and Commutative Algebra Hiroaki Hijikata, Heisuke Hironaka, Masaki Maruyama, 2014-05-10 *Algebraic Geometry and Commutative Algebra in Honor of Masayoshi Nagata* presents a collection of papers on algebraic geometry and commutative algebra in honor of Masayoshi Nagata for his significant contributions to commutative algebra. Topics covered range from power series rings and rings of invariants of finite linear groups to the convolution algebra of distributions on totally disconnected locally compact groups. The discussion begins with a description of several formulas for enumerating certain types of objects which may be tabular arrangements of integers called Young tableaux or some types of

monomials The next chapter explains how to establish these enumerative formulas with emphasis on the role played by transformations of determinantal polynomials and recurrence relations satisfied by them The book then turns to several applications of the enumerative formulas and universal identity including including enumerative proofs of the straightening law of Doubilet Rota Stein and computations of Hilbert functions of polynomial ideals of certain determinantal loci Invariant differentials and quaternion extensions are also examined along with the moduli of Todorov surfaces and the classification problem of embedded lines in characteristic p This monograph will be a useful resource for practitioners and researchers in algebra and geometry

Commutative Algebra, Algebraic Geometry, and Computational Methods David

Eisenbud,1999-07 This volume contains papers presented at the International Conference on Commutative Algebra Algebraic geometry and Computational methods held in Hanoi in 1996 as well as papers written subsequently It features both expository articles as well as research papers on a range of currently active areas in commutative algebra algebraic geometry particularly surveys on intersection theory and combinatorics In addition a special feature is a section on the life and work of Wolfgang Vogel who was an organiser of the conference

Commutative Algebra and Algebraic Geometry

Sudhir Ghorpade,Hema Srinivasan,Jugal Verma,2005 The first Joint AMS India Mathematics Meeting was held in Bangalore India This book presents articles written by speakers from a special session on commutative algebra and algebraic geometry Included are contributions from some leading researchers around the world in this subject area The volume contains new and original research papers and survey articles suitable for graduate students and researchers interested in commutative algebra and algebraic geometry

Commutative Algebra and Its Connections to Geometry Alberto Corso,Claudia

Polini,2011 Commutative Algebra and its Interactions to Algebraic Geometry Nguyen Tu CUONG,Le Tuan HOA,Ngo Viet TRUNG,2018-08-02 This book presents four lectures on recent research in commutative algebra and its applications to algebraic geometry Aimed at researchers and graduate students with an advanced background in algebra these lectures were given during the Commutative Algebra program held at the Vietnam Institute of Advanced Study in Mathematics in the winter semester 2013 2014 The first lecture is on Weyl algebras certain rings of differential operators and their D modules relating non commutative and commutative algebra to algebraic geometry and analysis in a very appealing way The second lecture concerns local systems their homological origin and applications to the classification of Artinian Gorenstein rings and the computation of their invariants The third lecture is on the representation type of projective varieties and the classification of arithmetically Cohen Macaulay bundles and Ulrich bundles Related topics such as moduli spaces of sheaves liaison theory minimal resolutions and Hilbert schemes of points are also covered The last lecture addresses a classical problem how many equations are needed to define an algebraic variety set theoretically It systematically covers and improves recent results for the case of toric varieties

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

Commutative Algebra and Noncommutative Algebraic Geometry David Eisenbud, Srikanth B. Iyengar, Anurag K. Singh, J. Toby Stafford, Michel Van den Bergh, 2015-11-19 This book surveys fundamental current topics in these two areas of research emphasising the lively interaction between them Volume 1 contains expository papers ideal for those entering the field *Approximate Commutative Algebra* Lorenzo Robbiano, John Abbott, 2009-09-18 Approximate Commutative Algebra is an emerging field of research which endeavours to bridge the gap between traditional exact Computational Commutative Algebra and approximate numerical computation The last 50 years have seen enormous progress in the realm of exact Computational Commutative Algebra and given the importance of polynomials in scientific modelling it is very natural to want to extend these ideas to handle approximate empirical data deriving from physical measurements of phenomena in the real world In this volume nine contributions from established researchers describe various approaches to tackling a variety of problems arising in Approximate Commutative Algebra

The Enigmatic Realm of **Commutative Algebra Algebraic Geometry**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Commutative Algebra Algebraic Geometry** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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