

# Algebraic Geometry and Commutative Algebra

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*Linsen Chou*



# Algebraic Geometry And Commutative Algebra

**David Eisenbud**



## **Algebraic Geometry And Commutative Algebra:**

*Algebraic Geometry and Commutative Algebra* Siegfried Bosch, 2012-11-15 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. Moreover, Grothendieck's schemes, invented in the late 1950s, allowed the application of algebraic geometric methods in fields that formerly seemed to be far away from geometry, like algebraic number theory. The new techniques paved the way to spectacular progress, such as the proof of Fermat's Last Theorem by Wiles and Taylor. The scheme-theoretic approach to algebraic geometry is explained for non-experts. More advanced readers can use the book to broaden their view on the subject. A separate part deals with the necessary prerequisites from commutative algebra. On a whole, the book provides a very accessible and self-contained introduction to algebraic geometry up to a quite advanced level. Every chapter of the book is preceded by a motivating introduction with an informal discussion of the contents. Typical examples and an abundance of exercises illustrate each section. This way, the book is an excellent solution for learning by yourself or for complementing knowledge that is already present. It can equally be used as a convenient source for courses and seminars or as supplemental literature.

*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.

**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.

**Algebraic Geometry and Commutative Algebra** Siegfried Bosch, 2022 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.

*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.

**Algebraic Geometry and Commutative Algebra** 田村・田村, 田村・田村, 1988      **Algebraic Geometry and Commutative Algebra** Hiroaki Hironaka, 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

**Algebraic K-Theory, Commutative Algebra, and Algebraic Geometry** R. Keith Dennis, 1992 In the mid 1960 s 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

Computational Algebraic Geometry and Commutative Algebra David Eisenbud, Lorenzo Robbiano, 1993 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* Hiroaki Hijkata, 1988

**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

**Ideals, Varieties, and Algorithms** David Cox, John Little, DONAL OSHEA, 2013-03-09 Algebraic Geometry is the study of systems of polynomial equations in one or more variables asking such questions as Does the system have finitely many solutions and if so how can one find them And if there are infinitely many solutions how can they be described and manipulated The solutions of a system of polynomial equations form a geometric object called a variety the corresponding algebraic object is an ideal There is a close relationship between ideals and varieties which reveals the intimate link between algebra and geometry Written at a level appropriate to

undergraduates this book covers such topics as the Hilbert Basis Theorem the Nullstellensatz invariant theory projective geometry and dimension theory The algorithms to answer questions such as those posed above are an important part of algebraic geometry This book bases its discussion of algorithms on a generalization of the division algorithm for polynomials in one variable that was only discovered in the 1960 s Although the algorithmic roots of algebraic geometry are old the computational aspects were neglected earlier in this century This has changed in recent years and new algorithms coupled with the power of fast computers have let to some interesting applications for example in robotics and in geometric theorem proving In preparing a new edition of Ideals Varieties and Algorithms the authors present an improved proof of the Buchberger Criterion as well as a proof of Bezout s Theorem Appendix C contains a new section on Axiom and an update about Maple Mathematica and REDUCE

**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

**Ideals, Varieties, and Algorithms** David A. Cox, John Little, Donal O'Shea, 2025-08-23

This text covers topics in algebraic geometry and commutative algebra with careful attention to their practical and computational aspects The first four chapters form the core of the book A comprehensive chart in the Preface illustrates a variety of ways to proceed with the material once these chapters are covered In addition to the fundamentals of algebraic geometry the elimination theorem the extension theorem the closure theorem and the Nullstellensatz there are chapters on polynomial and rational functions between varieties robotics and geometric theorem proving invariant theory of finite groups projective algebraic geometry dimension theory and progress made over the last decades in computing Gr bner bases The fifth edition builds on the fourth edition in two main ways First a number of typographical errors found by readers and by the authors since 2018 have been corrected Second new material on toric varieties monomial curves and other topics of current interest in algebraic geometry has been added This enhances the opportunities for active learning through new examples new exercises and new projects in Appendix D all supplemented by additional references The book also includes updated computer algebra material in Appendix C The book may be used for a first or second course in undergraduate abstract algebra and with some augmentation perhaps for beginning graduate courses in algebraic geometry or computational

commutative algebra Prerequisites for the reader include linear algebra and a proof oriented course It is assumed that the reader has access to a computer algebra system Appendix C describes features of Maple Mathematica and SageMath as well as other systems that are most relevant to the text Pseudocode is used in the text Appendix B carefully describes the pseudocode used From the reviews of previous editions The book gives an introduction to Buchberger's algorithm with applications to syzygies Hilbert polynomials primary decompositions There is an introduction to classical algebraic geometry with applications to the ideal membership problem solving polynomial equations and elimination theory The book is well written The reviewer is sure that it will be an excellent guide to introduce further undergraduates in the algorithmic aspect of commutative algebra and algebraic geometry Peter Schenzel zbMATH 2007 I consider the book to be wonderful The exposition is very clear there are many helpful pictures and there are a great many instructive exercises some quite challenging offers the heart and soul of modern commutative and algebraic geometry The American Mathematical Monthly

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

**The Geometry of Syzygies** David Eisenbud, 2008-11-01 First textbook level account of basic examples and techniques in this area Suitable for self study by a reader who knows a little commutative algebra and algebraic geometry already David Eisenbud is a well known mathematician and current president of the American Mathematical Society as well as a successful Springer author Ulrich Bundles Laura Costa, Rosa María Miró-Roig, Joan Pons-Llopis, 2021-05-10 The goal of this book is to cover the active developments of arithmetically Cohen Macaulay and Ulrich bundles and related topics in the last 30 years and to present relevant techniques and multiple applications of the theory of Ulrich bundles to a wide range of problems in algebraic geometry as well as in commutative

algebra     **Commutative Algebra and Noncommutative Algebraic Geometry** David Eisenbud, 2015     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



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