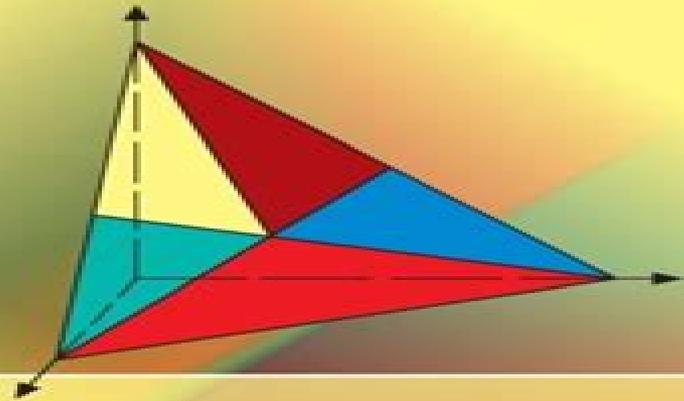


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Computational Commutative and Non-commutative Algebraic Geometry Svetlana Cojocaru, Gerhard Pfister, Victor Ufnarovski, 2005

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

Algebraic Statistics Giovanni Pistone, Eva Riccomagno, Henry P. Wynn, 2000-12-21 Written by pioneers in this exciting new field Algebraic Statistics introduces the application of polynomial algebra to experimental design discrete probability and statistics It begins with an introduction to Gröbner bases and a thorough description of their applications to experimental design A special chapter covers the binary case with new application to coherent systems in reliability and two level factorial

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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 research mathematicians 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

Computational Commutative Algebra 1, 2008 Eintrag für die Universitätsbibliographie

Ideals, Varieties, and Algorithms David A. Cox, John Little, Donal O'Shea, 2015-04-30 This text covers topics in algebraic geometry and commutative algebra with a strong perspective toward 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 this new edition incorporates several substantial changes all of which are listed in the Preface The largest revision incorporates a new Chapter ten which presents some of the essentials of progress made over the last decades in computing Gröbner bases The book also includes current computer algebra material in Appendix C and updated independent projects Appendix D The book may serve as a first or second course in undergraduate abstract algebra and with some supplementation perhaps for beginning graduate level courses in algebraic geometry or computational 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 Sage 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 Readers who are teaching from Ideals Varieties and Algorithms or are studying the book on their own may obtain a copy of the solutions manual by sending an email to jlittle@holycross.edu 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

Computational Linear and Commutative Algebra Martin Kreuzer, Lorenzo Robbiano, 2016-09-06 This book combines in a novel and general way an extensive development of the theory of families of commuting matrices with applications to zero dimensional commutative rings primary decompositions and polynomial system solving It integrates the Linear Algebra of the Third Millennium developed exclusively here with classical algorithmic and algebraic techniques Even the experienced reader will be pleasantly surprised to discover new and unexpected aspects in a variety of subjects including eigenvalues and eigenspaces of linear maps joint eigenspaces of commuting families of endomorphisms multiplication maps of zero dimensional affine algebras computation of primary decompositions and maximal ideals and solution of polynomial systems This book completes a trilogy initiated by the uncharacteristically witty books *Computational Commutative Algebra 1* and *2* by the same authors The material treated here is not available in book form and much of it is not available at all The authors continue to present it in their lively and humorous style interspersing core content with funny quotations and tongue in cheek explanations

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 led 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

Commutative Algebra Andrea Ferretti, 2023-09-26 This book provides an introduction to classical methods in commutative algebra and their applications to number theory algebraic geometry and computational algebra The use of number theory as a motivating theme throughout the book provides a rich and interesting context for the material covered In addition many results are reinterpreted from a geometric perspective providing further

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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

Gröbner Bases Thomas Becker, Volker Weispfenning, 2012-12-06 The origins of the mathematics in this book date back more than two thousand years as can be seen from the fact that one of the most important algorithms presented here bears the name of the Greek mathematician Euclid The word algorithm as well as the key word algebra in the title of this book come from the name and the work of the ninth century scientist Mohammed ibn Musa al Khwarizmi who was born in what is now Uzbekistan and worked in Baghdad at the court of Harun al Rashid's son The word algorithm is actually a westernization of al Khwarizmi's name while algebra derives from al jabr a term that appears in the title of his book Kitab al jabr wa l muqabala where he discusses symbolic methods for the solution of equations This close connection between algebra and algorithms lasted roughly up to the beginning of this century until then the primary goal of algebra was the design of constructive methods for solving equations by means of symbolic transformations During the second half of the nineteenth century a new line of

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The origins of the mathematics in this book date back more than two thousand years as can be seen from the fact that one of the most important algorithms presented here bears the name of the Greek mathematician Euclid. The word algorithm as well as the key word algebra in the title of this book come from the name and the work of the ninth century scientist Mohammed ibn Musa al Khwarizmi who was born in what is now Uzbekistan and worked in Baghdad at the court of Harun al Rashid's son. The word algorithm is actually a westernization of al Khwarizmi's name while algebra derives from al jabr a term that appears in the title of his book *Kitab al jabr wa l muqabala* where he discusses symbolic methods for the solution of equations. This close connection between algebra and algorithms lasted roughly up to the beginning of this century until then the primary goal of algebra was the design of constructive methods for solving equations by means of symbolic transformations. During the second half of the nineteenth century a new line of thought began to enter algebra from the realm of geometry where it had been successful since Euclid's time namely the axiomatic method.

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