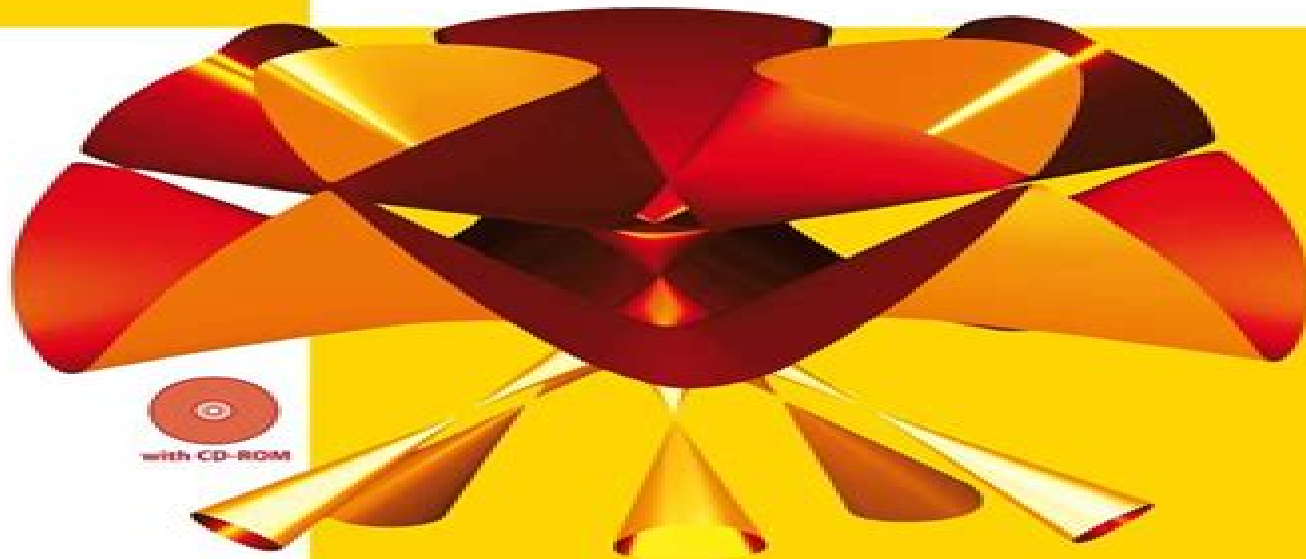


Gert-Martin Greuel
Gerhard Pfister

A Singular Introduction to Commutative Algebra



Second Edition



Springer

A Singular Introduction To Commutative Algebra

**Wolfram Decker, Gerhard
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A Course in Commutative Algebra Gregor Kemper, 2010-12-02 This textbook offers a thorough modern introduction into commutative algebra It is intended mainly to serve as a guide for a course of one or two semesters or for self study The carefully selected subject matter concentrates on the concepts and results at the center of the field The book maintains a constant view on the natural geometric context enabling the reader to gain a deeper understanding of the material Although it emphasizes theory three chapters are devoted to computational aspects Many illustrative examples and exercises enrich the text

Singularities and Computer Algebra Wolfram Decker, Gerhard Pfister, Mathias Schulze, 2017-03-29 This book arose from a conference on Singularities and Computer Algebra which was held at the Pfalz Akademie Lambrecht in June 2015 in honor of Gert Martin Greuel's 70th birthday This unique volume presents a collection of recent original research by some of the leading figures in singularity theory on a broad range of topics including topological and algebraic aspects classification problems deformation theory and resolution of singularities At the same time the articles highlight a variety of techniques ranging from theoretical

methods to practical tools from computer algebra Greuel himself made major contributions to the development of both singularity theory and computer algebra With Gerhard Pfister and Hans Sch nemann he developed the computer algebra system SINGULAR which has since become the computational tool of choice for many singularity theorists The book addresses researchers whose work involves singularity theory and computer algebra from the PhD to expert level

Computer Algebra in Scientific Computing Vladimir P. Gerdt, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2009-09-30 This book constitutes the refereed proceedings of the 11th International Workshop on Computer Algebra in Scientific Computing CASC 2009 held in Kobe Japan in September 2009 The 28 revised full papers presented together with 2 invited lectures were carefully reviewed and selected from numerous submissions The topics addressed are all basic areas of scientific computing as they benefit from the application of computer algebra methods and software The papers cover computer algebra methods and algorithms application of symbolic and algebraic manipulation and CA methods and results for the numerical integration of the partial differential equations of the mathematical physics

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Kevin Buzzard, Alicia Dickenstein, Bettina Eick, Anton Leykin, Yue Ren, 2024-07-16 This book constitutes the proceedings of the 8th International Conference on Mathematical Software ICMS 2024 held in Durham UK during July 22 25 2024 The 37 full papers presented were carefully reviewed and selected from 46 submissions The papers are organized in subject areas as follows plenary lectures number theory and related areas novel formalisations of mathematics in lean software for the applications of group theory to combinatorics classical algebraic geometry advancing computer algebra with massively parallel methods computer algebra applications in the life sciences machine learning within computer algebra systems numerical software for special functions mathematical research data symbolic numeric methods in algebraic geometry Polyhedral geometry and combinatorics general session

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Hal Schenck, 2003-10-06 The interplay between algebra and geometry is a beautiful and fun area of mathematical investigation Advances in computing and algorithms make it possible to tackle many classical problems in a down to earth and concrete fashion This opens wonderful new vistas and allows us to pose study and solve problems that were previously out of reach Suitable for graduate students the objective of this 2003 book is to bring advanced algebra to life with lots of examples The first chapters provide an introduction to commutative algebra and connections to geometry The rest of the book focuses on three active areas of contemporary algebra Homological Algebra the snake lemma long exact sequence inhomology functors and derived functors Tor and Ext and double complexes Algebraic Combinatorics and Algebraic Topology simplicial complexes and simplicial homology Stanley Reisner rings upper bound theorem and polytopes and Algebraic Geometry points and curves in projective space Riemann Roch Cech cohomology regularity

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Gert-Martin Greuel, Thorsten Koch, Peter Paule, Andrew Sommese, 2016-07-05 This book constitutes the proceedings of the 5th International Conference on Mathematical Software ICMS 2015 held in Berlin Germany in July 2016 The 68 papers included in this volume were carefully

reviewed and selected from numerous submissions The papers are organized in topical sections named univalent foundations and proof assistants software for mathematical reasoning and applications algebraic and toric geometry algebraic geometry in applications software of polynomial systems software for numerically solving polynomial systems high precision arithmetic effective analysis and special functions mathematical optimization interactive operation to scientific artwork and mathematical reasoning information services for mathematics software services models and data semDML towards a semantic layer of a world digital mathematical library miscellanea

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**A Singular Introduction To Commutative Algebra**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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