

Singular introduction to commutative algebra

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Notes: Includes bibliographical references (p. [649]-659) and indexes.

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A Singular Introduction to Commutative Algebra

In a non-commutative ring, whether or not the standard words form a basis depends on what relations we have. CON , ISBN 3642442544, ISBN-13 9783642442544, Brand New, Free shipping in the US This substantially enlarged second edition aims to lead a further stage in the computational revolution in commutative algebra. Another distinctive feature of this book is the degree of integration of explicit computational examples into the flow of the text.

Introduction to commutative algebra and algebraic geometry

It is followed by the central concepts of commutative algebra such as integral closure, dimension theory, primary decomposition, Hilbert function, completion, flatness and homological algebra. Algebraic varieties -- Dimension -- Regular and rational functions on algebraic varieties Localization -- The local-global principle in commutative algebra -- On the number of equations needed to describe an algebraic variety -- Regular and singular points of algebraic varieties -- Projective resolutions.

A Singular Introduction to Commutative Algebra by Gert

An introduction to commutative and non-commutative Groebner bases. To learn more, see our. Symbolic Computation, 9 1 :1-26, 1990.

An Algebraic Introduction To Complex Projective Geometry Commutative Algebra Cambridge Studies In Advanced Mathematics PDF Book

With an appendix by Vlastimil Dlab.

Singular

Introduction originally published in 1985 this classic textbook is an english translation of einfuehrung in die kommutative algebra und algebraische geometrie as part of the modern birkhauser classics series the publisher is proud to make introduction to commutative algebra and algebraic geometry available to a wider audience. Noncommutative Gröbner bases and filtered-graded transfer.

algorithms

There is a substantial appendix about algebraic geometry in order to explain how commutative algebra and computer algebra can be used for a better understanding of geometric problems. The authors' most important new focus is the presentation of non-well orderings that allow them the computational approach for local commutative algebra. It is certainly no exaggeration to say that greuel and pfisters a singular introduction to commutative algebra aims to lead a further stage in the computational revolution in commutative algebra in which computational methods and results become central to how the subject is taught and learned.

A singular introduction to commutative algebra : Greuel, G.

The coding is not very elegant but Singular is a little bit sensitive as far as for-loops, recursion and deceleration is concerned. An appendix is devoted to algebraic geometry to show how geometric problems can be understood using commutative algebra. A synopsis of the table of contents will make this clear.

Singular

Singular is developed under the direction of Wolfram Decker, , , and Hans Schönemann, who head Singular's core development team within the Department of Mathematics of the. Algebraic Varieties and Schemes, editor , Algebraic Geometry I: Algebraic Curves, Algebraic Manifolds and Schemes, Springer, , Thus the Zariski open subsets are 'very big'; in particular, the Zariski topology is highly non-Hausdorff.

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