

Ihsen Yengui

Constructive Commutative Algebra

Projective Modules Over Polynomial
Rings and Dynamical Gröbner Bases

Online Book Constructive Commutative Algebra Projective Mathematics

Martin Kreuzer, Lorenzo Robbiano



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Constructive Commutative Algebra Ihsen Yengui, 2015-12-11 The main goal of this book is to find the constructive content hidden in abstract proofs of concrete theorems in Commutative Algebra especially in well known theorems concerning projective modules over polynomial rings mainly the Quillen Suslin theorem and syzygies of multivariate polynomials with coefficients in a valuation ring Simple and constructive proofs of some results in the theory of projective modules over polynomial rings are also given and light is cast upon recent progress on the Hermite ring and Grbner ring conjectures New conjectures on unimodular completion arising from our constructive approach to the unimodular completion problem are presented Constructive algebra can be understood as a first preprocessing step for computer algebra that leads to the discovery of general algorithms even if they are sometimes not efficient From a logical point of view the dynamical evaluation gives a constructive substitute for two highly nonconstructive tools of abstract algebra the Law of Excluded Middle and Zorn's Lemma For instance these tools are required in order to construct the complete prime factorization of an ideal in a Dedekind ring whereas the dynamical method reveals the computational content of this construction These lecture notes follow this dynamical philosophy *Colloquium Mathematicum*, 2017 [Derived Categories](#) Amnon

Yekutieli, 2019-12-19 There have been remarkably few systematic expositions of the theory of derived categories since its inception in the work of Grothendieck and Verdier in the 1960s This book is the first in depth treatment of this important component of homological algebra It carefully explains the foundations in detail before moving on to key applications in commutative and noncommutative algebra many otherwise unavailable outside of research articles These include commutative and noncommutative dualizing complexes perfect DG modules and tilting DG bimodules Written with graduate students in mind the emphasis here is on explicit constructions with many examples and exercises as opposed to axiomatics with the goal of demystifying this difficult subject Beyond serving as a thorough introduction for students it will serve as an important reference for researchers in algebra geometry and mathematical physics **Computational Commutative**

Algebra 2 Martin Kreuzer, Lorenzo Robbiano, 2005-11-04 Hofstadter's Law It always takes longer than you think it will take even if you take into account Hofstadter's Law Douglas R Hofstadter Dear Reader why did we begin the foreword of this second volume with the same quote as the first There we wrote that it took three years of intense work just to fill three centimeters of your bookshelf The completion of this volume took four years and it is about four centimeters thick Thus we have a confirmed invariant which governs our writing our velocity is one centimeter per year after all effects due to Hofstadter's Law have been taken into account When we started this project in the last millennium we planned a book for learning teaching reading and most of all enjoying the topic at hand Surely there is no law which says that a mathematical book has to be dull boring dry or tedious But how do you make it enjoyable Our approach has been to fill it with amusing quotes varied jokes funny word games owery metaphors and occasional literary efforts There are two possible drawbacks of this method Firstly

not everyone has the same sense of humour and not every metaphor works as intended For instance it is easy to joke about certain politicians but what happens if they read this book And when we wrote of a small boat sailing slowly into the Brazilian sunset it was pointed out to us that this entails a geographical problem Secondly it is very difficult to write humorously in a foreign language

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

Computations in Algebraic Geometry with Macaulay 2 David Eisenbud, Daniel R. Grayson, Mike Stillman, Bernd Sturmfels, 2013-03-14 Systems of polynomial equations arise throughout mathematics science and engineering Algebraic geometry provides powerful theoretical techniques for studying the qualitative and quantitative features of their solution sets Recently developed algorithms have made theoretical aspects of the subject accessible to a broad range of mathematicians and scientists The algorithmic approach to the subject has two principal aims developing new tools for research within mathematics and providing new tools for modeling and solving problems that arise in the sciences and engineering A healthy synergy emerges as new theorems yield new algorithms and emerging applications lead to new theoretical questions This book presents algorithmic tools for algebraic geometry and experimental applications of them It also introduces a software system in which the tools have been implemented and with which the experiments can be carried out Macaulay 2 is a computer algebra system devoted to supporting research in algebraic geometry commutative algebra and their applications The reader of this book will encounter Macaulay 2 in the context of concrete applications and practical computations in algebraic geometry The expositions of the algorithmic tools presented here are designed to serve as a useful guide for those wishing to bring such tools to bear on their own problems A wide range of mathematical scientists should find these expositions valuable This includes both the users of other programs similar to Macaulay 2 for example Singular and CoCoA and those who are not interested in explicit machine computations at all

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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 Joe Harris,JOE AUTOR HARRIS,1992-09-17 This textbook is an introduction to algebraic geometry that emphasizes the classical roots of the subject avoiding the technical details better treated with the most recent methods It provides a basis for understanding the developments of the last half century which have put the subject on a radically new footing Based on lectures given at Brown and Harvard the book retains an informal style and stresses examples Annotation copyright by Book News Inc Portland OR Computing in Algebraic Geometry Wolfram Decker,Christoph Lossen,2006-03-02 This book provides a quick access to computational tools for algebraic geometry the mathematical discipline which handles solution sets of polynomial equations Originating from a number of intense one week schools taught by the authors the text is designed so as to provide a step by step introduction which enables the reader to get started with his own computational experiments right away The authors present the basic concepts and ideas in a compact way **Computational Aspects of Commutative Algebra and Algebraic Geometry** ,1995

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