

Ihsen Yengui

Constructive Commutative Algebra

Projective Modules Over Polynomial
Rings and Dynamical Gröbner Bases

Online Constructive Commutative Algebra Projective Mathematics

Jianjun Gao



Online Constructive Commutative Algebra Projective Mathematics:

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 Gr bner 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

Noncommutative Polynomial Algebras of Solvable Type and Their Modules

Huishi Li, 2021-11-07 Noncommutative Polynomial Algebras of Solvable Type and Their Modules is the first book to systematically introduce the basic constructive computational theory and methods developed for investigating solvable polynomial algebras and their modules In doing so this book covers A constructive introduction to solvable polynomial algebras and Gr bner basis theory for left ideals of solvable polynomial algebras and submodules of free modules The new filtered graded techniques combined with the determination of the existence of graded monomial orderings The elimination theory and methods for left ideals and submodules of free modules combining the Gr bner basis techniques with the use of Gelfand Kirillov dimension and the construction of different kinds of elimination orderings The computational construction of finite free resolutions including computation of syzygies construction of different kinds of finite minimal free resolutions based on computation of different kinds of minimal generating sets etc This book is perfectly suited to researchers and postgraduates researching noncommutative computational algebra and would also be an ideal resource for teaching an advanced lecture course

Colloquium Mathematicum, 2017

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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 witty 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

Computational Methods in Commutative Algebra and Algebraic Geometry Wolmer Vasconcelos, 2004-06-01 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

Computational Commutative Algebra 1, 2008 Eintrag f r die Universit tsbibliographie Topics in Computational Algebra G.M. Piacentini Cattaneo, Elisabetta Strickland, 1991-01-31 The main purpose of these lectures is first to briefly survey the fundamental connection between the representation theory of the symmetric group S_n and the theory of symmetric functions and second to show how combinatorial methods that arise naturally in the theory of symmetric functions lead to efficient algorithms to express various products of representations of S_n in terms of sums of irreducible representations That is there is a basic isometry which maps the center of the group algebra of S_n $\mathbb{Z}[S_n]$ to the space of homogeneous symmetric functions of degree n A_n This basic isometry is known as the Frobenius map F The Frobenius map allows us to reduce calculations involving characters of the symmetric group to calculations involving Schur functions Now there is a very rich and beautiful theory of the combinatorics of symmetric functions that has been developed in recent years The combinatorics of symmetric functions then leads to a number of very efficient algorithms for expanding various products of Schur functions into a sum of Schur functions Such expansions of products of Schur functions correspond via the Frobenius map to decomposing various products of irreducible representations of S_n into their irreducible components In addition the Schur functions are also the characters of the irreducible polynomial representations of the general linear group over the complex numbers $GL_n(\mathbb{C})$

Computing in algebraic geometry Wolfram Decker, Christoph Lossen, 2006

Studies in Constructive Mathematics and Mathematical Logic A. O. Slisenko, 2014-01-15

Geometric Algebra Applications Vol. I Eduardo Bayro-Corrochano, 2018-06-20 The goal of the Volume I Geometric Algebra for Computer Vision Graphics and Neural Computing is to present a unified mathematical treatment of diverse problems in the general domain of artificial intelligence and associated fields using Clifford or geometric algebra Geometric algebra provides a rich and general mathematical framework for Geometric Cybernetics in order to develop solutions concepts and computer algorithms without losing geometric insight of the problem in question Current mathematical subjects can be treated in an unified manner without abandoning the mathematical system of geometric algebra for instance multilinear algebra projective and affine geometry calculus on manifolds Riemann geometry the representation of Lie algebras and Lie groups using bivector algebras and conformal geometry By treating a wide spectrum of problems in a common language this Volume I offers both new insights and new solutions that should be useful to scientists and engineers working in different areas related with the development and building of intelligent

machines Each chapter is written in accessible terms accompanied by numerous examples figures and a complementary appendix on Clifford algebras all to clarify the theory and the crucial aspects of the application of geometric algebra to problems in graphics engineering image processing pattern recognition computer vision machine learning neural computing and cognitive systems *Studies in Constructive Mathematics and Mathematical Logic* ,1969 **Studies in Constructive Mathematics and Mathematical Logic** A. O. Slisenko,1969 *Computational Aspects of Commutative Algebra and Algebraic Geometry* ,1995

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