Gröbner Bases in Commutative Algebra

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Grobner Bases A Computational Approach To Commutative Algebra

Jean-Pierre Serre

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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 Introduction to Gröbner Bases Ralf Fröberg, 1997-10-07 As algebra becomes more widely used in a variety of applications and computers are developed to allow efficient calculations in the field so there becomes a need for new techniques to further this area of research Gr bner Bases is one topic which has recently become a very popular and important area of modern algebra This book provides a concrete introduction to commutative algebra through Gr bner Bases The inclusion of exercises lists of further reading and related literature make this a practical approach to introducing Gr bner Bases The author presents new concepts and results of recent research in the area allowing students and researchers in technology computer science and mathematics to gain a basic understanding of the technique A first course in algebra is the only prior knowledge required for this introduction Chapter titles include Monomial Ideas Gr bner Bases Algebraic Sets Solving Systems of Polynomial Equations Applications of Gr bner Bases Homogeneous Algebra Hilbert Series Variations of Gr bner Bases Improvements to Buchberger's Algorithms Software An Introduction to Gröbner Bases William W. Adams, Philippe Loustaunau, 2022-04-25 A very carefully crafted introduction to the theory and some of the applications of Gr bner bases contains a wealth of illustrative examples and a wide variety of useful exercises the discussion is everywhere well motivated and further developments and important issues are well sign posted has many solid virtues and is an ideal text for beginners in the subject certainly an excellent text Bulletin of the London Mathematical Society As the primary tool for doing explicit computations in polynomial rings in many variables Gr bner bases are an important component of all computer algebra systems They are also important in computational commutative algebra and algebraic geometry This book provides a leisurely and fairly comprehensive introduction to Gr bner bases and their applications Adams and Loustaunau cover the following topics the theory and construction of Gr bner bases for polynomials with coefficients in a field applications of Gr bner bases to computational problems involving rings of polynomials in many variables a method for computing syzygy modules and Gr bner bases in modules and the theory of Gr bner bases for polynomials with coefficients in rings With over 120 worked out examples and 200 exercises this book is aimed at advanced undergraduate and graduate students It would be suitable as a supplement to a course in commutative algebra or as a textbook for a course in computer algebra or computational commutative algebra This book would also be appropriate for students of computer science and engineering who have some acquaintance with modern algebra *Gröbner Bases and Applications* Bruno Buchberger, Franz Winkler, 1998-02-26 Comprehensive account of theory and applications of Gr bner bases co edited by the subject s inventor

Grobner Bases and Convex Polytopes Bernd Sturmfels,1996 This book is about the interplay of computational commutative algebra and the theory of convex polytopes It centres around a special class of ideals in a polynomial ring the class of toric ideals They are characterized as those prime ideals that are generated by monomial differences or as the

defining ideals of toric varieties not necessarily normal The interdisciplinary nature of the study of Gr bner bases is reflected by the specific applications appearing in this book These applications lie in the domains of integer programming and computational statistics. The mathematical tools presented in the volume are drawn from commutative algebra combinatorics Gröbner Bases in Symbolic Analysis Markus Rosenkranz, Dongming Wang, 2011-12-22 This and polyhedral geometry volume contains survey articles and original research papers presenting the state of the art on applying the symbolic approach of Gr bner bases and related methods to differential and difference equations The contributions are based on talks delivered at the Special Semester on Gr bner Bases and Related Methods hosted by the Johann Radon Institute of Computational and Applied Mathematics Linz Austria in May 2006 Gröbner Bases, Coding, and Cryptography Massimiliano Sala, Teo Mora, Ludovic Perret, Shojiro Sakata, Carlo Traverso, 2009-05-28 Coding theory and cryptography allow secure and reliable data transmission which is at the heart of modern communication Nowadays it is hard to find an electronic device without some code inside Gr bner bases have emerged as the main tool in computational algebra permitting numerous applications both in theoretical contexts and in practical situations This book is the first book ever giving a comprehensive overview on the application of commutative algebra to coding theory and cryptography For example all important properties of algebraic geometric coding systems including encoding construction decoding list decoding are individually analysed reporting all significant approaches appeared in the literature Also stream ciphers PK cryptography symmetric cryptography and Polly Cracker systems deserve each a separate chapter where all the relevant literature is reported and compared While many short notes hint at new exciting directions the reader will findthat all chapters fit nicely within a unified notation **Lie Groups, Lie Algebras, and Representations** Brian C. Hall, 2003-08-07 This book provides an introduction to Lie groups Lie algebras and repre sentation theory aimed at graduate students in mathematics and physics Although there are already several excellent books that cover many of the same topics this book has two distinctive features that I hope will make it a useful addition to the literature First it treats Lie groups not just Lie alge bras in a way that minimizes the amount of manifold theory needed Thus I neither assume a prior course on differentiable manifolds nor provide a con densed such course in the beginning chapters Second this book provides a gentle introduction to the machinery of semi simple groups and Lie algebras by treating the representation theory of SU 2 and SU 3 in detail before going to the general case This allows the reader to see roots weights and the Weyl group in action in simple cases before confronting the general theory The standard books on Lie theory begin immediately with the general case a smooth manifold that is also a group The Lie algebra is then defined as the space of left invariant vector fields and the exponential mapping is defined in terms of the flow along such vector fields This approach is undoubtedly the right one in the long run but it is rather abstract for a reader encountering such things for the first time Hagenberg Research Bruno Buchberger, Michael Affenzeller, Alois Ferscha, Michael Haller, Tudor Jebelean, Erich Peter Klement, Peter Paule, Gustav Pomberger, Wolfgang

Schreiner, Robert Stubenrauch, Roland Wagner, Gerhard Weiß, Wolfgang Windsteiger, 2009-05-29 BrunoBuchberger This book is a synopsis of basic and applied research done at the various re search institutions of the Softwarepark Hagenberg in Austria Starting with 15 coworkers in my Research Institute for Symbolic Computation RISC I initiated the Softwarepark Hagenberg in 1987 on request of the Upper Aus trian Government with the objective of creating a scientic technological and economic impulse for the region and the international community In the meantime in a joint e ort the Softwarepark Hagenberg has grown to the current 2009 size of over 1000 R D employees and 1300 students in six research institutions 40 companies and 20 academic study programs on the bachelor master s and PhD level The goal of the Softwarepark Hagenberg is innovation of economy in one of the most important current technologies software It is the message of this book that this can only be achieved and guaranteed long term by watering the root namely emphasis on research both basic and applied In this book we summarize what has been achieved in terms of research in the various research institutions in the Softwarepark Hagenberg and what research vision we have for the imminent future When I founded the Softwarepark Hagenberg in addition to the watering the root principle I had the vision that such a technology park can only prosper if we realize the magic triangle i e the close interaction of research academic education and business applications at one site see Figure 1

Algebraic Topology William Fulton, 2013-12-01 To the Teacher This book is designed to introduce a student to some of the important ideas of algebraic topology by emphasizing the relations of these ideas with other areas of mathematics Rather than choosing one point of view of modem topology homotopy theory simplicial complexes singular theory axiomatic homology differ ential topology etc we concentrate our attention on concrete prob lems in low dimensions introducing only as much algebraic machin ery as necessary for the problems we meet This makes it possible to see a wider variety of important features of the subject than is usual in a beginning text The book is designed for students of mathematics or science who are not aiming to become practicing algebraic topol ogists without we hope discouraging budding topologists We also feel that this approach is in better harmony with the historical devel opment of the subject What would we like a student to know after a first course in to pology assuming we reject the answer half of what one would like the student to know after a second course in topology Our answers to this have guided the choice of material which includes under standing the relation between homology and integration first on plane domains later on Riemann surfaces and in higher dimensions wind ing numbers and degrees of mappings fixed point theorems appli cations such as the Jordan curve theorem invariance of domain in dices of vector fields and Euler characteristics fundamental groups The Symmetric Group Bruce E. Sagan, 2013-03-09 I have been very gratified by the response to the first edition which has resulted in it being sold out This put some pressure on me to come out with a second edition and now finally here it is The original text has stayed much the same the major change being in the treatment of the hook formula which is now based on the beautiful Novelli Pak Stoyanovskii bijection NPS 97 I have also added a chapter on applications of the material from the first edition This includes

Stanley's theory of differential posets Stn 88 Stn 90 and Fomin's related concept of growths Fom 86 Fom 94 Fom 95 which extends some of the combinatorics of Sn representations Next come a couple of sections showing how groups acting on posets give rise to interesting representations that can be used to prove unimodality results Stn 82 Finally we discuss Stanley s symmetric function analogue of the chromatic polynomial of a graph Stn 95 Stn ta I would like to thank all the people too numerous to mention who pointed out typos in the first edition My computer has been severely reprimanded for making them Thanks also go to Christian Krattenthaler Tom Roby and Richard Stanley all of whom read portions of the new material and gave me their comments Finally I would like to give my heartfelt thanks to my editor at Springer Ina Lindemann who has been very supportive and helpful through various difficult times Introduction to Elliptic Curves and Modular Forms Neal I. Koblitz, 2012-12-06 This textbook covers the basic properties of elliptic curves and modular forms with emphasis on certain connections with number theory The ancient congruent number problem is the central motivating example for most of the book My purpose is to make the subject accessible to those who find it hard to read more advanced or more algebraically oriented treatments At the same time I want to introduce topics which are at the forefront of current research Down to earth examples are given in the text and exercises with the aim of making the material readable and interesting to mathematicians in fields far removed from the subject of the book With numerous exercises and answers included the textbook is also intended for graduate students who have completed the standard first year courses in real and complex analysis and algebra Such students would learn applications of techniques from those courses thereby solidifying their under standing of some basic tools used throughout mathematics Graduate stu dents wanting to work in number theory or algebraic geometry would get a motivational example oriented introduction In addition advanced under graduates could use the book for independent study projects senior theses and seminar work **Analysis for Applied Mathematics** Ward Cheney, 2013-04-17 This book evolved from a course at our university for beginning graduate stu dents in mathematics particularly students who intended to specialize in applied mathematics. The content of the course made it attractive to other math ematics students and to graduate students from other disciplines such as en gineering physics and computer science Since the course was designed for two semesters duration many topics could be included and dealt with in de tail Chapters 1 through 6 reflect roughly the actual nature of the course as it was taught over a number of years The content of the course was dictated by a syllabus governing our preliminary Ph D examinations in the subject of applied mathematics That syllabus in turn expressed a consensus of the faculty members involved in the applied mathematics program within our department The text in its present manifestation is my interpretation of that syllabus my colleagues are blameless for whatever flaws are present and for any inadvertent deviations from the syllabus The book contains two additional chapters having important material not included in the course Chapter 8 on measure and integration is for the ben efit of readers who want a concise presentation of that subject and Chapter 7 contains some topics closely allied but peripheral to the principal thrust of the course This

arrangement of the material deserves some explanation Lie Groups, Lie Algebras, and Their Representations V.S. Varadarajan, 2013-04-17 This book has grown out of a set of lecture notes I had prepared for a course on Lie groups in 1966 When I lectured again on the subject in 1972 I revised the notes substantially It is the revised version that is now appearing in book form The theory of Lie groups plays a fundamental role in many areas of mathematics. There are a number of books on the subject currently available most notably those of Chevalley Jacobson and Bourbaki which present various aspects of the theory in great depth However 1 feei there is a need for a single book in English which develops both the algebraic and analytic aspects of the theory and which goes into the representation theory of semi simple Lie groups and Lie algebras in detail This book is an attempt to fiii this need It is my hope that this book will introduce the aspiring graduate student as well as the nonspecialist mathematician to the fundamental themes of the subject I have made no attempt to discuss infinite dimensional representations. This is a very active field and a proper treatment of it would require another volume if not more of this size However the reader who wants to take up this theory will find that this book prepares him reasonably well for An Invitation to C*-Algebras W. Arveson, 2012-12-06 This book gives an introduction to C algebras and their representations on Hilbert spaces We have tried to present only what we believe are the most basic ideas as simply and concretely as we could So whenever it is convenient and it usually is Hilbert spaces become separable and C algebras become GCR This practice probably creates an impression that nothing of value is known about other C algebras Of course that is not true But insofar as representations are con cerned we can point to the empirical fact that to this day no one has given a concrete parametric description of even the irreducible representations of any C algebra which is not GCR Indeed there is metamathematical evidence which strongly suggests that no one ever will see the discussion at the end of Section 3 4 Occasionally when the idea behind the proof of a general theorem is exposed very clearly in a special case we prove only the special case and relegate generalizations to the exercises In effect we have systematically eschewed the Bourbaki tradition We have also tried to take into account the interests of a variety of readers For example the multiplicity theory for normal operators is contained in Sections 2 1 and 2 2 it would be desirable but not necessary to include Section 1 1 as well whereas someone interested in Borel structures could read Chapter 3 separately Chapter I could be used as a bare bones introduction to C algebras Sections 2 Several Complex Variables and Banach Algebras Herbert Alexander, John Wermer, 1998 Many connections have been found between the theory of analytic functions of one or more complex variables and the study of commutative Banach algebras While function theory has often been employed to answer algebraic questions such as the existence of idempotents in a Banach algebra concepts arising from the study of Banach algebras including the maximal ideal space the Silov boundary Geason parts etc have led to new questions and to new methods of proofs in function theory This book is concerned with developing some of the principal applications of function theory in several complex variables to Banach algebras The authors do not presuppose any knowledge of several complex variables on the part of the reader and all

relevant material is developed within the text Furthermore the book deals with problems of uniform approximation on compact subsets of the space of n complex variables. The third edition of this book contains new material on maximum modulus algebras and subharmonicity the hull of a smooth curve integral kernels perturbations of the Stone Weierstrass. Theorem boundaries of analytic varieties polynomial hulls of sets over the circle areas and the topology of hulls. The authors have also included a new chapter containing commentaries on history and recent developments and an updated and expanded reading list. Algebraic Groups and Class Fields Jean-Pierre Serre, 2012-12-06 Translation of the French Edition. Information Security and Cryptology - ICISC 2009 Donghoon Lee, Seokhie Hong, 2010-07-12 This book constitutes the proceedings of the 12th International Conference on Information Security and Cryptology held in Seoul Korea in December 2009.

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