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**Gebhard Böckle, Wolfram
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Algorithmic Algebra Bhubaneswar Mishra, 2012-12-06 Algorithmic Algebra studies some of the main algorithmic tools of computer algebra covering such topics as Gröbner bases, characteristic sets, resultants and semialgebraic sets. The main purpose of the book is to acquaint advanced undergraduate and graduate students in computer science, engineering and mathematics with the algorithmic ideas in computer algebra so that they could do research in computational algebra or understand the algorithms underlying many popular symbolic computational systems: Mathematica, Maple or Axiom, for instance. Also, researchers in robotics, solid modeling, computational geometry and automated theorem proving community may find it useful as symbolic algebraic techniques have begun to play an important role in these areas. The book, while being self-contained, is written at an advanced level and deals with the subject at an appropriate depth. The book is accessible to computer science students with no previous algebraic training. Some mathematical readers, on the other hand, may find it interesting to see how algorithmic constructions have been used to provide fresh proofs for some classical theorems. The book also contains a large number of exercises with solutions to selected exercises, thus making it ideal as a textbook or for self study.

Computer Algebra In Science And Engineering J. Fleischer, J. Grabmeier, Friedrich W. Hehl, W. Kuchlin, 1995-08-31 Systems and tools of computer algebra. Like AXIOM, Derive, FORM, Mathematica, Maple, Mupad, REDUCE, Macsyma, let us manipulate extremely complex algebraic formulae symbolically on a computer. Contrary to numerics, these computations are exact and there is no loss of accuracy. After decades of research and development, these tools are now becoming indispensable in Science and Engineering as traditional number crunching already is. The ZiF 94 workshop is amongst the first devoted specifically to applications of computer algebra (CA) in Science and Engineering. The book documents the state of the art in this area and serves as an important reference for future work.

Algorithmic Algebra and Number Theory B. Heinrich Matzat, Gert-Martin Greuel, 1999 This book contains 22 lectures presented at the final conference of the German research program Algorithmic Number Theory and Algebra 1991-1997 sponsored by the Deutsche Forschungsgemeinschaft. The purpose of this research program and the meeting was to bring together developers of computer algebra software and researchers using computational methods to gain insight into experimental problems and theoretical questions in algebra and number theory. The book gives an overview on algorithmic methods and results obtained during this period, mainly in algebraic number theory, commutative algebra and algebraic geometry and group and representation theory. Some of the articles illustrate the current state of the computer algebra systems developed with support from the research program, for example KANT and LiDIA for algebraic number theory, SINGULAR, REDLOG and INVARI for commutative algebra and invariant theory, respectively, and GAP, SYPHOS and CHEVIE for group and representation theory.

Computer Algebra Methods for Equivariant Dynamical Systems Karin Gatermann, 2007-05-06 This book starts with an overview of the research of Gröbner bases which have many applications in various areas of mathematics since they are a general tool for the

investigation of polynomial systems The next chapter describes algorithms in invariant theory including many examples and time tables These techniques are applied in the chapters on symmetric bifurcation theory and equivariant dynamics This combination of different areas of mathematics will be interesting to researchers in computational algebra and or dynamics

Algorithm Engineering Matthias Müller-Hannemann, Stefan Schirra, 2010-08-05 Algorithms are essential building blocks of computer applications However advancements in computer hardware which render traditional computer models more and more unrealistic and an ever increasing demand for efficient solution to actual real world problems have led to a rising gap between classical algorithm theory and algorithmics in practice The emerging discipline of Algorithm Engineering aims at bridging this gap Driven by concrete applications Algorithm Engineering complements theory by the benefits of experimentation and puts equal emphasis on all aspects arising during a cyclic solution process ranging from realistic modeling design analysis robust and efficient implementations to careful experiments This tutorial outcome of a GI Dagstuhl Seminar held in Dagstuhl Castle in September 2006 covers the essential aspects of this process in ten chapters on basic ideas modeling and design issues analysis of algorithms realistic computer models implementation aspects and algorithmic software libraries selected case studies as well as challenges in Algorithm Engineering Both researchers and practitioners in the field will find it useful as a state of the art survey

Algorithmic Combinatorics: Enumerative Combinatorics, Special Functions and Computer Algebra Veronika Pillwein, Carsten Schneider, 2020-09-28 The book is centered around the research areas of combinatorics special functions and computer algebra What these research fields share is that many of their outstanding results do not only have applications in Mathematics but also other disciplines such as computer science physics chemistry etc A particular charm of these areas is how they interact and influence one another For instance combinatorial or special functions techniques have motivated the development of new symbolic algorithms In particular first proofs of challenging problems in combinatorics and special functions were derived by making essential use of computer algebra This book addresses these interdisciplinary aspects Algorithmic aspects are emphasized and the corresponding software packages for concrete problem solving are introduced Readers will range from graduate students researchers to practitioners who are interested in solving concrete problems within mathematics and other research disciplines

Algorithmic and Experimental Methods in Algebra, Geometry, and Number Theory Gebhard Böckle, Wolfram Decker, Gunter Malle, 2018-03-22 This book presents state of the art research and survey articles that highlight work done within the Priority Program SPP 1489 Algorithmic and Experimental Methods in Algebra Geometry and Number Theory which was established and generously supported by the German Research Foundation DFG from 2010 to 2016 The goal of the program was to substantially advance algorithmic and experimental methods in the aforementioned disciplines to combine the different methods where necessary and to apply them to central questions in theory and practice Of particular concern was the further development of freely available open source computer algebra systems and their interaction in order to create powerful new

computational tools that transcend the boundaries of the individual disciplines involved The book covers a broad range of topics addressing the design and theoretical foundations implementation and the successful application of algebraic algorithms in order to solve mathematical research problems It offers a valuable resource for all researchers from graduate students through established experts who are interested in the computational aspects of algebra geometry and or number theory

Algebraic and Symbolic Computation Methods in Dynamical Systems Alban Quadrat,Eva Zerz,2020-05-30 This book aims at reviewing recent progress in the direction of algebraic and symbolic computation methods for functional systems e g ODE systems differential time delay equations difference equations and integro differential equations In the nineties modern algebraic theories were introduced in mathematical systems theory and in control theory Combined with real algebraic geometry which was previously introduced in control theory the past years have seen a flourishing development of algebraic methods in control theory One of the strengths of algebraic methods lies in their close connections to computations The use of the above mentioned algebraic theories in control theory has been an important source of motivation to develop effective versions of these theories when possible With the development of computer algebra and computer algebra systems symbolic methods for control theory have been developed over the past years The goal of this book is to propose a partial state of the art in this direction To make recent results more easily accessible to a large audience the chapters include materials which survey the main mathematical methods and results and which are illustrated with explicit examples

Effective Methods in Algebraic Geometry T. Mora,C. Traverso,2012-12-06 The symposium MEGA 90 Effective Methods in Algebraic Geometry was held in Castiglioncello Livorno Italy in April 17 21 1990 The themes we quote from the Call for papers were the following Effective methods and complexity issues in commutative algebra projective geometry real geometry algebraic number theory Algebraic geometric methods in algebraic computing Contributions in related fields computational aspects of group theory differential algebra and geometry algebraic and differential topology etc were also welcome The origin and the motivation of such a meeting that is supposed to be the first of a series deserves to be explained The subject the theory and the practice of computation in algebraic geometry and related domains from the mathematical viewpoint has been one of the themes of the symposia organized by SIGSAM the Special Interest Group for Symbolic and Algebraic Manipulation of the Association for Computing Machinery SAME Symbolic and Algebraic Manipulation in Europe and AAECC the semantics of the name is varying an average meaning is Applied Algebra and Error Correcting Codes

Handbook of Discrete and Computational Geometry Csaba D. Toth,Joseph O'Rourke,Jacob E. Goodman,2017-11-22 The Handbook of Discrete and Computational Geometry is intended as a reference book fully accessible to nonspecialists as well as specialists covering all major aspects of both fields The book offers the most important results and methods in discrete and computational geometry to those who use them in their work both in the academic world as researchers in mathematics and computer science and in the professional world as practitioners in fields as diverse as

operations research molecular biology and robotics Discrete geometry has contributed significantly to the growth of discrete mathematics in recent years This has been fueled partly by the advent of powerful computers and by the recent explosion of activity in the relatively young field of computational geometry This synthesis between discrete and computational geometry lies at the heart of this Handbook A growing list of application fields includes combinatorial optimization computer aided design computer graphics crystallography data analysis error correcting codes geographic information systems motion planning operations research pattern recognition robotics solid modeling and tomography

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