

Algorithms
and Computation
in Mathematics

Volume 4

Arjeh M. Cohen
Hans Cuypers
Hans Sterk (Eds.)

Some Tapas of Computer Algebra

Some Tapas Of Computer Algebra

**Johannes Grabmeier, Erich
Kaltofen, Volker Weispfenning**



Some Tapas Of Computer Algebra:

Some Tapas of Computer Algebra Arjeh M. Cohen, Hans Cuypers, Hans Sterk, 2013-03-09 In the years 1994 1995 two EIDMA mini courses on Computer Algebra were given at the Eindhoven University of Technology by apart from ourselves various invited lecturers EIDMA is the Research School Euler Institute for Discrete Mathematics and its Applications The idea of the courses was to acquaint young mathematicians with algorithms and software for mathematical research and to enable them to incorporate algorithms in their research A collection of lecture notes was used at these courses When discussing these courses in comparison with other kinds of courses one might give in a week s time Joachim Neuberger referred to our courses as tapas This denomination underlined that the courses consisted of appetizers for various parts of algorithmic algebra indeed we covered such spicy topics as the link between Gröbner bases and integer programming and the detection of algebraic solutions to differential equations As a collection the notes turned out to have some appeal of their own which is the main reason why the idea came up of transforming them into book form We felt however that the book should be distinguishable from a standard text book on computer algebra in that it retains its appetizing flavour by presenting a variety of topics at an accessible level with a view to recent developments *Computer Algebra Handbook*

Johannes Grabmeier, Erich Kaltofen, Volker Weispfenning, 2012-12-06 Two ideas lie gleaming on the jeweler s velvet The first is the calculus the second the algorithm The calculus and the rich body of mathematical analysis to which it gave rise made modern science possible but it has been the algorithm that has made possible the modern world David Berlinski *The Advent of the Algorithm* First there was the concept of integers then there were symbols for integers I II III 1 1 1 1 f t t t what might be called a sticks and stones representation I II III IV V Roman numerals 1 2 3 4 5 Arabic numerals etc Then there were other concepts with symbols for them and algorithms sometimes for manipulating the new symbols Then came collections of mathematical knowledge tables of mathematical computations theorems of general results Soon after algorithms came devices that provided assistance for carrying out computations Then mathematical knowledge was organized and structured into several related concepts and symbols logic algebra analysis topology algebraic geometry number theory combinatorics etc This organization and abstraction lead to new algorithms and new fields like universal algebra But always our symbol systems reflected and influenced our thinking our concepts and our algorithms **Codes, Cryptology and Curves with**

Computer Algebra Ruud Pellikaan, Xin-Wen Wu, Stanislav Bulygin, Relinde Jurrius, 2017-11-02 This well balanced text touches on theoretical and applied aspects of protecting digital data The reader is provided with the basic theory and is then shown deeper fascinating detail including the current state of the art Readers will soon become familiar with methods of protecting digital data while it is transmitted as well as while the data is being stored Both basic and advanced error correcting codes are introduced together with numerous results on their parameters and properties The authors explain how to apply these codes to symmetric and public key cryptosystems and secret sharing Interesting approaches based on

polynomial systems solving are applied to cryptography and decoding codes Computer algebra systems are also used to provide an understanding of how objects introduced in the book are constructed and how their properties can be examined This book is designed for Masters level students studying mathematics computer science electrical engineering or physics

Algorithms in Real Algebraic Geometry Saugata Basu,Richard Pollack,Marie-Françoise Coste-Roy,2013-03-09 The algorithmic problems of real algebraic geometry such as real root counting deciding the existence of solutions of systems of polynomial equations and inequalities or deciding whether two points belong in the same connected component of a semi algebraic set occur in many contexts In this first ever graduate textbook on the algorithmic aspects of real algebraic geometry the main ideas and techniques presented form a coherent and rich body of knowledge linked to many areas of mathematics and computing Mathematicians already aware of real algebraic geometry will find relevant information about the algorithmic aspects and researchers in computer science and engineering will find the required mathematical background Being self contained the book is accessible to graduate students and even for invaluable parts of it to undergraduate students

Discrete and Computational Geometry Boris Aronov,Saugata Basu,Janos Pach,Micha Sharir,2012-12-06 An impressive collection of original research papers in discrete and computational geometry contributed by many leading researchers in these fields as a tribute to Jacob E Goodman and Richard Pollack two of the founding fathers of the area on the occasion of their 2 3 x 100 birthdays The topics covered by the 41 papers provide professionals and graduate students with a comprehensive presentation of the state of the art in most aspects of discrete and computational geometry including geometric algorithms study of arrangements geometric graph theory quantitative and algorithmic real algebraic geometry with important connections to algebraic geometry convexity polyhedral combinatorics the theory of packing covering and tiling The book serves as an invaluable source of reference in this discipline

Commutative Algebra Methods for Coding Theory Ştefan Ovidiu I. Tohăneanu,2024-07-01 This book aims to be a comprehensive treatise on the interactions between Coding Theory and Commutative Algebra With the help of a multitude of examples it expands and systematizes the known and versatile commutative algebraic framework used since the early 90 s to study linear codes The book provides the necessary background for the reader to advance with similar research on coding theory topics from commutative algebraic perspectives

Topics in Algebraic Graph Theory Lowell W. Beineke,Robin J. Wilson,2004-10-04 There is no other book with such a wide scope of both areas of algebraic graph theory

Algebra, Geometry and Software Systems Michael Joswig,Nobuki Takayama,2013-03-14 In many fields of modern mathematics specialised scientific software becomes increasingly important Hence tremendous effort is taken by numerous groups all over the world to develop appropriate solutions This book contains surveys and research papers on mathematical software and algorithms The common thread is that the field of mathematical applications lies on the border between algebra and geometry Topics include polyhedral geometry elimination theory algebraic surfaces Gr bner bases triangulations of point sets

and the mutual relationship This diversity is accompanied by the abundance of available software systems which often handle only special mathematical aspects Therefore the volume's other focus is on solutions towards the integration of mathematical software systems This includes low level and XML based high level communication channels as well as general framework for modular systems

A Singular Introduction to Commutative Algebra Gert-Martin Greuel, Gerhard Pfister, 2012-12-06 In theory there is no difference between theory and practice In practice there is Yogi Berra A SINGULAR Introduction to Commutative Algebra offers a rigorous introduction to commutative algebra and at the same time provides algorithms and computational practice In this book we do not separate the theoretical and the computational part Coincidentally as new concepts are introduced it is consequently shown by means of concrete examples and general procedures how these concepts are handled by a computer We believe that this combination of theory and practice will provide not only a fast way to enter a rather abstract field but also a better understanding of the theory showing concurrently how the theory can be applied We exemplify the computational part by using the computer algebra system SINGULAR a system for polynomial computations which was developed in order to support mathematical research in commutative algebra algebraic geometry and singularity theory As the restriction to a specific system is necessary for such an exposition the book should be useful also for users of other systems such as Macaulay2 and CoCoA with similar goals Indeed once the algorithms and the method of their application in one system is known it is usually not difficult to transfer them to another system

Computer Mathematics Kiyoshi Shirayanagi, Kazuhiro Yokoyama, 2001 This volume covers some of the most recent and significant advances in computer mathematics including algebraic symbolic numeric and geometric computation automated mathematical reasoning mathematical software and computer aided geometric design Researchers engineers academics and graduate students interested in doing mathematics using computers will find this volume good reading and a valuable reference

Using Algebraic Geometry David A Cox, John Little, Donal O'Shea, 2005-03-17 The discovery of new algorithms for dealing with polynomial equations and their implementation on fast inexpensive computers has revolutionized algebraic geometry and led to exciting new applications in the field This book details many uses of algebraic geometry and highlights recent applications of Grobner bases and resultants This edition contains two new sections a new chapter updated references and many minor improvements throughout

Graphs, Networks and Algorithms Dieter Jungnickel, 2013-06-29 From the reviews of the German edition Combinatorial optimization along with graph algorithms and complexity theory is booming This book treats the most prominent problems which are polynomially solvable The Traveling Salesman Problem is discussed as a paradigm of an NP complete problem The text is well written most exercises are quite enlightening and the hints are clear Algorithms are described very thoroughly The list of references is impressive and gives good guidance for further reading The book can be recommended to beginners as an introductory text as well as for research and industry as a reference

OPTIMA In this corrected 2nd printing of the first edition the author has made some small modifications some

minor mistakes were corrected and updates to the bibliography provided

Computer Mathematics - Proceedings Of The Fifth Asian Symposium (Ascm 2001) Kiyoshi Shirayanagi, Kazuhiro Yokoyama, 2001-09-18 This volume covers some of the most recent and significant advances in computer mathematics including algebraic symbolic numeric and geometric computation automated mathematical reasoning mathematical software and computer aided geometric design Researchers engineers academics and graduate students interested in doing mathematics using computers will find this volume good reading and a valuable reference

Introduction to Maple Andre HECK, 2011-06-27 The first two editions of this book have been very well received by the community but so many revisions of the Maple system have occurred since then that simply reprinting the out of stock book would not do anymore A major revision of the book was inevitable too The wording major revision must be taken seriously because I not only corrected typographical errors rephrased text fragments and updated many examples but I also rewrote complete chapters and added new material In particular the chapter on differential equations now discusses Lie symmetry methods partial differential equations and numerical methods Linear algebra is based throughout the book on the packages LinearAlgebra and VectorCalculus which replace the deprecated package linalg Maple users are strongly advised to do their work with the new packages The chapter on simplification has been updated and expanded it discusses the use of assumptions in more detail now Last but not least a new chapter on Gröbner basis theory and the Groebner package in Maple has been added to the book It includes many applications of Gröbner basis theory Many of the Maple sessions have been rewritten so that they comply with the most recent version of Maple As a result of all this work hardly any section in the book has been left untouched vi Preface to the Third Edition From the Preface of the Second Edition The first edition of this book has been very well received by the community

Selected Topics in Information and Coding Theory Isaac Woungang, Sudip Misra, Subhas Chandra Misra, 2010 The last few years have witnessed rapid advancements in information and coding theory research and applications This book provides a comprehensive guide to selected topics both ongoing and emerging in information and coding theory Consisting of contributions from well known and high profile researchers in their respective specialties topics that are covered include source coding channel capacity linear complexity code construction existence and analysis bounds on codes and designs space time coding LDPC codes and codes and cryptography All of the chapters are integrated in a manner that renders the book as a supplementary reference volume or textbook for use in both undergraduate and graduate courses on information and coding theory As such it will be a valuable text for students at both undergraduate and graduate levels as well as instructors researchers engineers and practitioners in these fields Supporting Powerpoint Slides are available upon request for all instructors who adopt this book as a course text

Computational Commutative Algebra 2 Martin Kreuzer, Lorenzo Robbiano, 2005-07-06 The second volume of the authors Computational commutative algebra covers on its 586 pages a wealth of interesting material with several unexpected applications an encyclopedia on computational commutative algebra a

source for lectures on the subject as well as an inspiration for seminars The text is recommended for all those who want to learn and enjoy an algebraic tool that becomes more and more relevant to different fields of applications

ZENTRALBLATT MATH Commutative Algebra: Constructive Methods Henri Lombardi, Claude Quitté, 2015-07-22 Translated from the popular French edition this book offers a detailed introduction to various basic concepts methods principles and results of commutative algebra It takes a constructive viewpoint in commutative algebra and studies algorithmic approaches alongside several abstract classical theories Indeed it revisits these traditional topics with a new and simplifying manner making the subject both accessible and innovative The algorithmic aspects of such naturally abstract topics as Galois theory Dedekind rings Prfer rings finitely generated projective modules dimension theory of commutative rings and others in the current treatise are all analysed in the spirit of the great developers of constructive algebra in the nineteenth century This updated and revised edition contains over 350 well arranged exercises together with their helpful hints for solution A basic knowledge of linear algebra group theory elementary number theory as well as the fundamentals of ring and module theory is required Commutative Algebra Constructive Methods will be useful for graduate students and also researchers instructors and theoretical computer scientists

Formal Techniques in Real-Time and Fault-Tolerant Systems Mathai Joseph, 2003-07-31 This book constitutes the refereed proceedings of the 6th International Symposium on Formal Techniques in Real Time and Fault Tolerant Systems FTRTFT 2000 held in Pune India in September 2000 The 21 revised full papers presented together with three invited contributions were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on model checking fault tolerance scheduling validation verification logic and automata

Fourteenth International Conference Zaragoza-Pau on Mathematics and its Applications López de Silanes, M. C., y otros, 2018-02-20 The International Conference Zaragoza Pau on Mathematics and its Applications was organized by the Departamento de Matem tica Aplicada the Departamento de M todos Estad sticos and the Departamento de Matem ticas all of them from the Universidad de Zaragoza Spain and the Laboratoire de Math matiques et de leurs Applications from the Universit de Pau et des Pays de l Adour France This conference has been held every two years since 1989 The aim of this conference is to present recent advances in Applied Mathematics Statistics and Pure Mathematics putting special emphasis on subjects linked to petroleum engineering and environmental problems The Fourteenth Conference took place in Jaca Spain from 12nd to 15th September 2016 During those four days 99 mathematicians coming from di erent universities research institutes or the industrial sector attended 14 plenary lectures 62 contributed talks and a poster session with 4 posters We note that in this edition there were 11 mini symposia two of them co organized by colleagues from the Universidad de Zaragoza and the Universit de Pau et des Pays de l Adour

Algebraic Methodology and Software Technology Helene Kirchner, Christophe Ringeissen, 2003-08-02 This volume contains the proceedings of AMAST 2002 the 9th International Conference on Algebraic Methodology and Software Technology held during September 9 13 2002 in Saint

Gilles les Bains Reunion Island France The major goal of the AMAST conferences is to promote research that may lead to setting software technology on a firm mathematical basis This goal is achieved through a large international cooperation with contributions from both academia and industry Developing a software technology on a mathematical basis produces software that is correct and the correctness can be proved mathematically b safe so that it can be used in the implementation of critical systems c portable i e independent of computing platforms and language generations d evolutionary i e it is self adaptable and evolves with the problem domain All previous AMAST conferences which were held in Iowa City 1989 1991 Twente 1993 Montreal 1995 Munich 1996 Sydney 1997 Manaus 1999 and Iowa City 2000 made contributions to the AMAST goals by reporting and disseminating academic and industrial achievements within the AMAST area of interest During these meetings AMAST attracted an international following among researchers and practitioners interested in software technology programming methodology and their algebraic and logical foundations

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