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Differential Equations And Computer Algebra Computational Mathematics Applications

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Computer Algebra and Differential Equations E. Tournier, 1989 Ordinary differential equations have been studied by mathematicians for many years and the standard techniques have been either by series expansions or by numerical methods Computer algebra has introduced an alternative means of treating differential equations and solving them more readily This volume assembles contributions from leading mathematicians in this growing field of computer algebra

Differential Equations and Computer Algebra Michael F. Singer, 1991 Teaches computer algebra users about up to date research developments in differential equations with selected papers from CADE 1990 held at Cornell University Featuring US and European research figures this book demonstrates scientific computing applications

Involution Werner M. Seiler, 2009-10-26 The book provides a self contained account of the formal theory of general i e also under and overdetermined systems of differential equations which in its central notion of involution combines geometric algebraic homological and combinatorial ideas

Computer-Aided Analysis of Difference Schemes for Partial Differential Equations Victor G. Ganzha, E. V. Vorozhtsov, 1996-04-12 Advances in computer technology have conveniently coincided with trends in numerical analysis toward increased complexity of computational algorithms based on finite difference methods It is no longer feasible to perform stability investigation of these methods manually and no longer necessary As this book shows modern computer algebra tools can be combined with methods from numerical analysis to generate programs that will do the job automatically Comprehensive timely and accessible this is the definitive reference on the application of computerized symbolic manipulations for analyzing the stability of a wide range of difference schemes In particular it deals with those schemes that are used to solve complex physical problems in areas such as gas dynamics heat and mass transfer catastrophe theory elasticity shallow water theory and more Introducing many new applications methods and concepts

Computer Aided Analysis of Difference Schemes for Partial Differential Equations Shows how computational algebra expedites the task of stability analysis whatever the approach to stability investigation Covers ten different approaches for each stability method Deals with the specific characteristics of each method and its application to problems commonly encountered by numerical modelers Describes all basic mathematical formulas that are necessary to implement each algorithm Provides each formula in several global algebraic symbolic languages such as MAPLE MATHEMATICA and REDUCE Includes numerous illustrations and thought provoking examples throughout the text For mathematicians physicists and engineers as well as for postgraduate students and for anyone involved with numeric solutions for real world physical problems this book provides a valuable resource a helpful guide and a head start on developments for the twenty first century

Applications of Computer Algebra Richard Pavelle, 2012-12-06 Today certain computer software systems exist which surpass the computational ability of researchers when their mathematical techniques are applied to many areas of science and engineering These computer systems can perform a large portion of the calculations seen in mathematical analysis

Despite this massive power thousands of people use these systems as a routine resource for everyday calculations. These software programs are commonly called Computer Algebra systems. They have names such as MACSYMA, MAPLE, muMATH, REDUCE and SMP. They are receiving credit as a computational aid with increasing regularity in articles in the scientific and engineering literature. When most people think about computers and scientific research these days they imagine a machine grinding away processing numbers arithmetically. It is not generally realized that for a number of years computers have been performing non-numeric computations. This means for example that one inputs an equation and obtains a closed form analytic answer. It is these Computer Algebra systems, their capabilities and applications which are the subject of the papers in this volume.

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, 1111, fttt, 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, 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 led to new algorithms and new fields like universal algebra. But always our symbol systems reflected and influenced our thinking, our concepts and our algorithms.

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.

Continuous Symmetries, Lie Algebras, Differential Equations, and Computer Algebra W.-H. Steeb, 1996

This book is a comprehensive introduction to the application of continuous symmetries and their Lie algebras to ordinary and partial differential equations. It is suitable for students and research workers whose main interest lies in finding solutions to differential equations. It therefore caters for readers primarily interested in applied mathematics and physics rather than pure mathematics. The book provides an application oriented text that is reasonably self-contained. A large number of worked examples have been included to help readers working independently of a teacher. The advance of algebraic computation has made it possible to write programs for the tedious calculations in this research field and thus the book also

makes a survey of computer algebra packages **Maple and Mathematica** Inna K. Shingareva, Carlos Lizárraga-Celaya, 2009-08-14 In the history of mathematics there are many situations in which calculations were performed incorrectly for important practical applications Let us look at some examples the history of computing the number began in Egypt and Babylon about 2000 years BC since then many mathematicians have calculated e g Archimedes Ptolemy Vi ete etc The first formula for computing decimal digits of π was discovered by J Machin in 1706 who was the first to correctly compute 100 digits of π Then many people used his method e g W Shanks calculated with 707 digits within 15 years although due to mistakes only the first 527 were correct For the next examples we can mention the history of computing the fine structure constant that was first discovered by A Sommerfeld and the mathematical tables exact solutions and formulas published in many mathematical textbooks were not verified rigorously 25 These errors could have a large effect on results obtained by engineers But sometimes the solution of such problems required such technology that was not available at that time In modern mathematics there exist computers that can perform various mathematical operations for which humans are incapable Therefore the computers can be used to verify the results obtained by humans to discover new results to prove the results that a human can obtain without any technology With respect to our example of computing we can mention that recently in 2002 Y Kanada Y Ushiro H Kuroda and M Computerized Symbolic Manipulation in Mechanics Edwin Kreuzer, 2014-05-04 The aim of this book is to present important software tools basic concepts methods and highly sophisticated applications of computerized symbolic manipulation to mechanics problems An overview about general purpose symbolic software is followed by general guidelines how to develop and implement high quality computer algebra code The theoretical background including modeling techniques for mechanical systems is provided which allows for the computer aided generation of the symbolic equation of motion for multibody systems It is shown how the governing equations for different types of problems in structural mechanics can be automatically derived and how to implement finite element techniques via computer algebra software Perturbation methods as a very powerful approach for nonlinear problems are discussed in detail and are demonstrated for a number of applications The applications covered in this book represent some of the most advanced topics in the rapidly growing field of research on symbolic computation Computer Algebra and Differential Equations E. Tournier, 1989 Ordinary differential equations have been studied by mathematicians for many years and the standard techniques have been either by series expansions or by numerical methods Computer algebra has introduced an alternative means of treating differential equations and solving them more readily This volume assembles contributions from leading mathematicians in this growing field of computer algebra **Continuous Symmetries, Lie Algebras, Differential Equations And Computer Algebra** Willi-hans Steeb, 1996-09-30 This book is a comprehensive introduction to the application of continuous symmetries and their Lie algebras to ordinary and partial differential equations It is suitable for students and research workers whose main interest lies in finding solutions to differential equations It

therefore caters for readers primarily interested in applied mathematics and physics rather than pure mathematics The book provides an application orientated text that is reasonably self contained A large number of worked examples have been included to help readers working independently of a teacher The advance of algebraic computation has made it possible to write programs for the tedious calculations in this research field and thus the book also makes a survey of computer algebra packages

Computer Algebra in Scientific Computing Vladimir P. Gerdt, Wolfram Koepf, Werner M. Seiler, Evgenii V. Vorozhtsov, 2018-09-03 This book constitutes the proceedings of the 20th International Workshop on Computer Algebra in Scientific Computing CASC 2018 held in Lille France in September 2018 The 24 full papers of this volume presented with an abstract of an invited talk and one paper corresponding to another invited talk were carefully reviewed and selected from 29 submissions They deal with cutting edge research in all major disciplines of computer algebra in sciences such as physics chemistry life sciences and engineering Chapter Positive Solutions of Systems of Signed Parametric Polynomial Inequalities is available open access under a Creative Commons Attribution 4.0 International License via link springer.com

Computers and Mathematics Erich Kaltofen, Stephen M. Watt, 2012-12-06 Advances in computer technology have had a tremendous impact on mathematics in the last two decades In June of 1989 an international conference was held at MIT bringing together mathematicians and computer scientists to survey the work that has been done in computational mathematics to report recent results in this field and to discuss research directions as well as educational issues This book presents a fascinating collection of contributions on topics ranging from computational algebra and parallel computing to mathematics education Mathematicians interested in the computational aspects of their discipline as well as computer scientists interested in mathematical applications will enjoy the integrative view provided by this book

Computational Mathematics and Applications Dia Zeidan, Seshadev Padhi, Aliaa Burqan, Peer Ueberholz, 2020-11-23 This book is a collection of invited and reviewed chapters on state of the art developments in interdisciplinary mathematics The book discusses recent developments in the fields of theoretical and applied mathematics covering areas of interest to mathematicians scientists engineers industrialists researchers faculty and students Readers will be exposed to topics chosen from a wide range of areas including differential equations integral reforms operational calculus numerical analysis fluid mechanics and computer science The aim of the book is to provide brief and reliably expressed research topics that will enable those new or not aware of mathematical sciences in this part of the world While the book has not been precisely planned to address any branch of mathematics it presents contributions of the relevant topics to do so The topics chosen for the book are those that we have found of significant interest to many researchers in the world These also are topics that are applicable in many fields of computational and applied mathematics This book constitutes the first attempt in Jordanian literature to scientifically consider the extensive need of research development at the national and international levels with which mathematics deals The book grew not only from the international collaboration between the authors but rather from the long need for a

research based book from different parts of the world for researchers and professionals working in computational and applied mathematics This is the modified version of the back cover content on the print book Computational Mathematics, Numerical Analysis and Applications Mariano Mateos, Pedro Alonso, 2017-08-03 The first part of this volume gathers the lecture notes of the courses of the XVII Escuela Hispano Francesa held in Gijón Spain in June 2016 Each chapter is devoted to an advanced topic and presents state of the art research in a didactic and self contained way Young researchers will find a complete guide to beginning advanced work in fields such as High Performance Computing Numerical Linear Algebra Optimal Control of Partial Differential Equations and Quantum Mechanics Simulation while experts in these areas will find a comprehensive reference guide including some previously unpublished results and teachers may find these chapters useful as textbooks in graduate courses The second part features the extended abstracts of selected research work presented by the students during the School It highlights new results and applications in Computational Algebra Fluid Mechanics Chemical Kinetics and Biomedicine among others offering interested researchers a convenient reference guide to these latest advances Modern Computer Algebra Joachim von zur Gathen, Jürgen Gerhard, 2003-07-03 Computer algebra systems are gaining importance in all areas of science and engineering This textbook gives a thorough introduction to the algorithmic basis of the mathematical engine in computer algebra systems It is designed to accompany one or two semester courses for advanced undergraduate or graduate students in computer science or mathematics Its comprehensiveness and authority also make it an essential reference for professionals in the area Special features include detailed study of algorithms including time analysis implementation reports on several topics complete proofs of the mathematical underpinnings a wide variety of applications among others in chemistry coding theory cryptography computational logic and the design of calendars and musical scales Some of this material has never appeared before in book form For the new edition errors have been corrected the text has been smoothed and updated and new sections on greatest common divisors and symbolic integration have been added **Differential Equations: Theory and Applications** David Betounes, 2009-10-31 This book provides a comprehensive introduction to the theory of ordinary differential equations with a focus on mechanics and dynamical systems as important applications of the theory The text is written to be used in the traditional way or in a more applied way In addition to its use in a traditional one or two semester graduate course in mathematics the book is organized to be used for interdisciplinary courses in applied mathematics physics and engineering Elements of Computer Algebra With Applications Alkiviadis G. Akritas, 1989-03-30 Numerical Modeling in Science and Engineering Myron B Allen George F Pinder and Ismael Herrera Emphasizing applications this treatment combines three traditionally distinct disciplines continuum mechanics differential equations and numerical analysis to provide a unified treatment of numerical modeling of physical systems Covers basic equations of macroscopic systems numerical methods steady state systems dissipative systems nondissipative systems and high order nonlinear and coupled systems 1988 0 471 80635 8 418 pp Mathematical Modeling

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