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Mathematical Problems for Ordinary Differential Equations

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Scientific Computing with Mathematica® Addolorata Marasco,Antonio Romano,2012-12-06 Many interesting behaviors of real physical biological economical and chemical systems can be described by ordinary differential equations ODEs Scientific Computing with Mathematica for Ordinary Differential Equations provides a general framework useful for the applications on the conceptual aspects of the theory of ODEs as well as a sophisticated use of Mathematica software for the solutions of problems related to ODEs In particular a chapter is devoted to the use ODEs and Mathematica in the Dynamics of rigid bodies Mathematical methods and scientific computation are dealt with jointly to supply a unified presentation The main problems of ordinary differential equations such as phase portrait approximate solutions periodic orbits stability bifurcation and boundary problems are covered in an integrated fashion with numerous worked examples and computer program demonstrations using Mathematica Topics and Features Explains how to use the Mathematica package ODE m to support qualitative and quantitative problem solving End of chapter exercise sets incorporating the use of Mathematica programs Detailed description and explanation of the mathematical procedures underlying the programs written in Mathematica Appendix describing the use of ten notebooks to guide the reader through all the exercises This book is an essential text reference for students graduates and practitioners in applied mathematics and engineering interested in ODE s problems in both the qualitative and quantitative description of solutions with the Mathematica program It is also suitable as a self **Scientific Computing with Ordinary Differential Equations** Peter Deuflhard,Folkmar Bornemann,2002-07-09 Well known authors Includes topics and results that have previously not been covered in a book Uses many interesting examples from science and engineering Contains numerous homework exercises Scientific computing is a hot and topical area Computer Algebra in Scientific Computing CASC'99 Victor G. Ganzha,Ernst W. Mayr,Evgenii V. Vorozhtsov,2012-12-06 The development of powerful computer algebra systems has considerably ex tended the scope of problems of scientific computing which can now be solved successfully with the aid of computers However as the field of applications of computer algebra in scientific computing becomes broader and more complex there is a danger of separation between theory systems and applications For this reason we felt the need to bring together the researchers who now ap ply the tools of computer algebra for the solution of problems in scientific computing in order to foster new and closer interactions CASC 99 is the second conference devoted to applications of computer al gebra in scientific computing The first conference in this sequence CASC 98 was held 20 24 April 1998 in St Petersburg Russia This volume contains revised versions of the papers submitted by the par ticipants and accepted by the program committee after a thorough reviewing process The collection of papers included in the proceedings covers various topics of computer algebra methods algorithms and software applied to scien tific computing symbolic numeric analysis and solving differential equations efficient computations with polynomials groups matrices and other related objects special purpose programming environments

application to physics mechanics optics and to other areas In particular a significant group of papers deals with applications of com puter algebra methods for the solution of current problems in group theory which mostly arise in mathematical physics Scientific Computing and Differential Equations: An Introduction to Numerical Methods Gene H. Golub,James M. Ortega,1991-09 Scientific Computing and Differential Equations An Introduction to Numerical Methods is an excellent complement to Introduction to Numerical Methods by Ortega and Poole The book emphasizes the importance of solving differential equations on a computer which comprises a large part of what has come to be called scientific computing It reviews modern scientific computing outlines its applications and places the subject in a larger context This book is appropriate for upper undergraduate courses in mathematics electrical engineering and computer science it is also well suited to serve as a textbook for numerical differential equations courses at the graduate level An introductory chapter gives an overview of scientific computing indicating its important role in solving differential equations and placing the subject in the larger environment Contains an introduction to numerical methods for both ordinary and partial differential equations Concentrates on ordinary differential equations especially boundary value problems Contains most of the main topics for a first course in numerical methods and can serve as a text for this course Uses material for junior senior level undergraduate courses in math and computer science plus material for numerical differential equations courses for engineering science students at the graduate level Computer Algebra in Scientific Computing CASC 2001 Viktor G. Ganzha,Ernst W. Mayr,Evgenii V. Vorozhtsov,2012-12-06 CASC 2001 continues a tradition started in 1998 of international con ferences on the latest advances in the application of computer algebra systems to the solution of various problems in scientific computing The three ear CASs lier conferences in this sequence CASC 98 CASC 99 and CASC 2000 were held Petersburg Russia in Munich Germany and in Samarkand respectively in St Uzbekistan and proved to be very successful We have to thank the program committee listed overleaf for a tremendous job in soliciting and providing reviews for the submitted papers There were more than three reviews per submission on average The result of this job is reflected in the present volume which contains revised versions of the accepted papers The collection of papers included in the proceedings covers various topics of computer algebra methods algorithms and software applied to scientific computing In particular five papers are devoted to the implementation of the analysis of involutive systems with the aid of CASso The specific examples include new efficient algorithms for the computation of Janet bases for monomial ideals involutive division involutive reduction method etc A number of papers deal with application of CASs for obtaining and vali dating new exact solutions to initial and boundary value problems for partial differential equations in mathematical physics Several papers show how CASs can be used to obtain analytic solutions of initial and boundary value problems for ordinary differential equations and for studying their properties **Scientific Computing with Case Studies** Dianne P. O'Leary,2009-03-19 This book is a practical guide to the numerical solution of linear and nonlinear equations differential equations optimization problems and eigenvalue problems It

treats standard problems and introduces important variants such as sparse systems differential algebraic equations constrained optimization Monte Carlo simulations and parametric studies Stability and error analysis are emphasized and the Matlab algorithms are grounded in sound principles of software design and understanding of machine arithmetic and memory management Nineteen case studies provide experience in mathematical modeling and algorithm design motivated by problems in physics engineering epidemiology chemistry and biology The topics included go well beyond the standard first course syllabus introducing important problems such as differential algebraic equations and conic optimization problems and important solution techniques such as continuation methods The case studies cover a wide variety of fascinating applications from modeling the spread of an epidemic to determining truss configurations **Computer Algebra in Scientific Computing** Viktor G. Ganzha,Ernst W. Mayr,Evgenii V. Vorozhtsov,2012-12-06 Proceedings of the Third Workshop on Computer Algebra in Scientific Computing Samarkand Octobe5r 5 9 2000 **Computer Algebra in Scientific Computing** Vladimir P. Gerdt,Wolfram Koepf,Ernst W. Mayr,Evgenii V. Vorozhtsov,2013-08-15 This book constitutes the proceedings of the 14th International Workshop on Computer Algebra in Scientific Computing CASC 2013 held in Berlin Germany in September 2013 The 33 full papers presented were carefully reviewed and selected for inclusion in this book The papers address issues such as polynomial algebra the solution of tropical linear systems and tropical polynomial systems the theory of matrices the use of computer algebra for the investigation of various mathematical and applied topics related to ordinary differential equations ODEs applications of symbolic computations for solving partial differential equations PDEs in mathematical physics problems arising at the application of computer algebra methods for finding infinitesimal symmetries applications of symbolic and symbolic numeric algorithms in mechanics and physics automatic differentiation the application of the CAS Mathematica for the simulation of quantum error correction in quantum computing the application of the CAS GAP for the enumeration of Schur rings over the group A5 constructive computation of zero separation bounds for arithmetic expressions the parallel implementation of fast Fourier transforms with the aid of the Spiral library generation system the use of object oriented languages such as Java or Scala for implementation of categories as type classes a survey of industrial applications of approximate computer algebra **Scientific Computing and Differential Equations** Gene H. Golub,James M. Ortega,1992 A book that emphasizes the importance of solving differential equations on a computer which comprises a large part of what has come to be called scientific computing An introductory chapter on this topic gives an overview of modern scientific computing outlining its applications and placing the subject in a larger context **Computer Algebra in Scientific Computing** François Boulier,Matthew England,Timur M. Sadykov,Evgenii V. Vorozhtsov,2021-08-16 This book constitutes the proceedings of the 23rd International Workshop on Computer Algebra in Scientific Computing CASC 2021 held in Sochi Russia in September 2021 The 24 full papers presented together with 1 invited talk were carefully reviewed and selected from 40 submissions The papers cover theoretical computer algebra and its applications in scientific computing

Computer Algebra in Scientific Computing Victor Grigor′evich Ganzha,Ernst Mayr,2001 Jets A Maple Package for Formal Differential Geometry Computing Stratifications of Quotients of Finite Groups and an Application to Shape Memory Alloy A MuPAD Library for Differential Equation Algebraic Identification Algorithm and Application to Dynamical Systems Cooperation Between a Dynamic Geometry Environment and a Computer Algebra System for Geometric Discovery On the Stability of Steady Motions of a Solar Sail Satellite Application of Computer Algebra for Investigation of a Group Properties of the Navier Stokes Equations for Compressible Viscous Heat Conducting Gas Mathematica and Nilpotent Lie Superalgebras Neighborhoods of an Ordinary Linear Differential Equation Invariants of Finite Groups and Involutive Division Symbolic Computation and Boundary Conditions for the Wave Equation Parametric Systems of Linear Congruences Bifurcation Analysis of Low Resonant Case of the Generalized Henon Heiles System An Involutive Reduction Method to Find Invariant Solutions for Partial Differential Equations Recurrence Functions and Numerical Characteristics of Graphs A New Combinatorial Algorithm for Large Markov Chains GROOME Tool Supported Graphical Object Oriented Modelling for Computer Algebra and Scientific Computing Construction of Janet Bases I Monomial Bases Construction of Janet Bases II Polynomial Bases Low Dimensional Quasi Filiform Lie Algebras with Great Length Algebraic Methods for Sectioning Parametric Surfaces The Methods of Computer Algebra and the Arnold Moser Theorem Symbolic Algorithms of Algebraic Perturbation Theory Hydrogen Atom in the Field of Distant Charge Perturbation versus Differentiation Indices Employment of the Gr bner Bases in Analysis of Systems Having Algebraic First Integrals Coalgebra Structures on 1 Homological Models for Commutative Differential Graded Algebras Conservative Finite Difference Schemes for Cosymmetric Systems A Mathematica Solver for Two Point Singularly Perturbed Boundary Value Problems A New Algorithm for Computing Cohomologies of Lie Superalgebras Parallel Computing with Mathematica Solution of Systems of Linear Diophantine Equations SYMOPT Symbolic Parametric Mathematical Programming Representing Graph Properties by Polynomial Ideals Parametric G1 Blending of Several Surfaces A Method of Logic Deduction and Verification in KBS Using Positive Integers Progressive Long Waves on a Slope A New Solution to the Euler Equation The Method of Newton Polyhedra for Investigating Singular Positions of Some Mechanisms Algebraic Predicates for Empirical Data Fractional Driftless Fokker Planck Equation with Power Law Diffusion Coefficients Factorization of Overdetermined Systems of Linear Partial Differential Equations with Finite Dimensional Solution Space Semilinear Motion Planning Among Moving Objects in REDLOG Author Index

Verzeichnis lieferbarer Bücher ,2002 **Differential Equations and Boundary Value Problems** Charles Henry Edwards,David E. Penney,2004 This practical book reflects the new technological emphasis that permeates differential equations including the wide availability of scientific computing environments likeMaple Mathematica and MATLAB it does not concentrate on traditional manual methods but rather on new computer based methods that lead to a wider range of more realistic applications The book starts and ends with discussions of mathematical modeling of real world phenomena

evident in figures examples problems and applications throughout the book For mathematicians and those in the field of computer science **Computer Algebra in Scientific Computing** ,2005 *Computer Algebra in Scientific Computing CASC'99* Victor G. Ganzha,Ernst W. Mayr,1999-05-31 The development of powerful computer algebra systems has considerably ex tended the scope of problems of scientific computing which can now be solved successfully with the aid of computers However as the field of applications of computer algebra in scientific computing becomes broader and more complex there is a danger of separation between theory systems and applications For this reason we felt the need to bring together the researchers who now ap ply the tools of computer algebra for the solution of problems in scientific computing in order to foster new and closer interactions CASC 99 is the second conference devoted to applications of computer al gebra in scientific computing The first conference in this sequence CASC 98 was held 20 24 April 1998 in St Petersburg Russia This volume contains revised versions of the papers submitted by the par ticipants and accepted by the program committee after a thorough reviewing process The collection of papers included in the proceedings covers various topics of computer algebra methods algorithms and software applied to scien tific computing symbolic numeric analysis and solving differential equations efficient computations with polynomials groups matrices and other related objects special purpose programming environments application to physics mechanics optics and to other areas In particular a significant group of papers deals with applications of com puter algebra methods for the solution of current problems in group theory which mostly arise in mathematical physics *Scientific Computing* Michael T. Heath,2018-11-14 This book differs from traditional numerical analysis texts in that it focuses on the motivation and ideas behind the algorithms presented rather than on detailed analyses of them It presents a broad overview of methods and software for solving mathematical problems arising in computational modeling and data analysis including proper problem formulation selection of effective solution algorithms and interpretation of results In the 20 years since its original publication the modern fundamental perspective of this book has aged well and it continues to be used in the classroom This Classics edition has been updated to include pointers to Python software and the Chebfun package expansions on barycentric formulation for Lagrange polynomial interpretation and stochastic methods and the availability of about 100 interactive educational modules that dynamically illustrate the concepts and algorithms in the book Scientific Computing An Introductory Survey Second Edition is intended as both a textbook and a reference for computationally oriented disciplines that need to solve mathematical problems **Maple and Mathematica** Inna K. Shingareva,Carlos Lizárraga-Celaya,2009-08-14 In the history of mathematics there are many situations in which cal lations 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 rst formula for computing decimal digits of was disc ered by J Machin in 1706 who was the rst to correctly compute 100 digits of Then many people used his method e g W Shanks calculated with 707 digits within 15 years

although due to mistakes only the rst 527 were correct For the next examples we can mention the history of computing the ne structure constant that was rst discovered by A Sommerfeld and the mathematical tables exact lutions and formulas published in many mathematical textbooks were not veri ed rigorously 25 These errors could have a large e ect on results obtained by engineers But sometimes the solution of such problems required such techn ogy 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 discovery new results to provetheresultsthatahumancanobtainwithoutanytechnology With respectto our example of computing we can mention that recently in 2002 Y Kanada Y Ushiro H Kuroda and M SIAM Journal on Scientific Computing ,2007 *Proceedings of Beijing International Conference on System Simulation and Scientific Computing, October 23-26, 1989, Beijing, China* Chuan Yuan Wen,1989 Proceedings Computer Arithmetic Algebra OOP **Mathematical Reviews** ,2006

Reviewing **Scientific Computing With Mathematica Mathematical Problems For Ordinary Differential Equations**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Scientific Computing With Mathematica Mathematical Problems For Ordinary Differential Equations**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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