

Inna Shingareva
Carlos Lizárraga-Celaya

Solving Nonlinear Partial Differential Equations with Maple and Mathematica

Solving Nonlinear Partial Differential Equations With Maple And Mathematica

Robert A. Meyers



Solving Nonlinear Partial Differential Equations With Maple And Mathematica:

Solving Nonlinear Partial Differential Equations with Maple and Mathematica Inna Shingareva, Carlos Lizárraga-Celaya, 2011-07-24 The emphasis of the book is given in how to construct different types of solutions exact approximate analytical numerical graphical of numerous nonlinear PDEs correctly easily and quickly The reader can learn a wide variety of techniques and solve numerous nonlinear PDEs included and many other differential equations simplifying and transforming the equations and solutions arbitrary functions and parameters presented in the book Numerous comparisons and relationships between various types of solutions different methods and approaches are provided the results obtained in Maple and Mathematica facilitates a deeper understanding of the subject Among a big number of CAS we choose the two systems Maple and Mathematica that are used worldwide by students research mathematicians scientists and engineers As in the our previous books we propose the idea to use in parallel both systems Maple and Mathematica since in many research problems frequently it is required to compare independent results obtained by using different computer algebra systems Maple and or Mathematica at all stages of the solution process One of the main points related to CAS is based on the implementation of a whole solution method e g starting from an analytical derivation of exact governing equations constructing discretizations and analytical formulas of a numerical method performing numerical procedure obtaining various visualizations and comparing the numerical solution obtained with other types of solutions considered in the book e g with asymptotic solution

Handbook of Nonlinear Partial Differential Equations, Second Edition

Andrei D. Polyanin, Valentin F. Zaitsev, 2016-04-19 New to the Second Edition More than 1 000 pages with over 1 500 new first second third fourth and higher order nonlinear equations with solutions Parabolic hyperbolic elliptic and other systems of equations with solutions Some exact methods and transformations Symbolic and numerical methods for solving nonlinear PDEs with Maple™ Mathematica and MATLAB Many new illustrative examples and tables A large list of references consisting of over 1 300 sources To accommodate different mathematical backgrounds the authors avoid wherever possible the use of special terminology They outline the methods in a schematic simplified manner and arrange the material in increasing order of complexity

Nonlinear Partial Differential Equations: Techniques And Recent Developments

Prasanta Chatterjee, Kaushik Roy, Laxmikanta Mandi, 2025-08-28 This book charts a clear and systematic roadmap for nonlinear partial differential equations NLPDES Beginning from the definition of a partial differential equation to the recent developments of nonlinear partial differential equations this book will be a valuable resource for advanced postgraduate students and researchers in applied mathematics physics nonlinear optics and other engineering disciplines where knowledge of nonlinear differential equations is a must The book begins with an introductory chapter that briefly describes the developments of linear as well as nonlinear partial differential equations Several nonlinear partial differential equations that have emerged in various fields have also been discussed Chapter 2 introduces several analytical techniques including

the traveling wave solutions and the similarity solutions of the nonlinear partial differential equations In Chapter 3 approximate analytical solutions and semi analytic solutions are presented in which solutions of non integrable or non autonomous nonlinear partial differential equations are investigated after suitable approximation Some recent breakthroughs in semi analytical approaches such as the Variational iteration method VIM Adomian decomposition method ADM Homotopy Analysis method HAM and Homotopy Perturbation method HPM are also explained with examples Chapter 4 deals with modern advancements in NLPDE Painlevé tests the Inverse Scattering Method the Lax Pair Method Darboux Transformation Bäcklund Transformation and the Hirota Direct Method The focus of this comprehensive monograph is to check the integrability and find analytical solutions for important NLPDEs according to recent developments

Handbook of Linear Partial Differential Equations for Engineers and Scientists Andrei D. Polyanin, Vladimir E. Nazaikinskii, 2015-12-23 This second edition contains nearly 4 000 linear partial differential equations PDEs with solutions as well as analytical symbolic and numerical methods for solving linear equations First second third fourth and higher order linear equations and systems of coupled equations are considered Equations of parabolic mixed and other types are discussed New linear equations exact solutions transformations and methods are described Formulas for effective construction of solutions are given Boundary value and eigenvalue problems are addressed Symbolic and numerical methods for solving PDEs with Maple Mathematica and MATLAB are explored

Handbook of Ordinary Differential Equations Andrei D. Polyanin, Valentin F. Zaitsev, 2017-11-15 The Handbook of Ordinary Differential Equations Exact Solutions Methods and Problems is an exceptional and complete reference for scientists and engineers as it contains over 7 000 ordinary differential equations with solutions This book contains more equations and methods used in the field than any other book currently available Included in the handbook are exact asymptotic approximate analytical numerical symbolic and qualitative methods that are used for solving and analyzing linear and nonlinear equations The authors also present formulas for effective construction of solutions and many different equations arising in various applications like heat transfer elasticity hydrodynamics and more This extensive handbook is the perfect resource for engineers and scientists searching for an exhaustive reservoir of information on ordinary differential equations

Mathematics of Complexity and Dynamical Systems Robert A. Meyers, 2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals

dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and graduate students up through professional researchers Maple and Mathematica Inna K. Shingareva, Carlos Lizárraga-Celaya, 2007-12-27 By presenting side by side comparisons this handbook enables Mathematica users to quickly learn Maple and vice versa The parallel presentation enables students mathematicians scientists and engineers to easily find equivalent functions on each of these algebra programs The handbook provides core material for incorporating Maple and Mathematica as working tools into many different undergraduate mathematics courses Nonlinear and Modern Mathematical Physics Wen Xiu Ma, Xing-biao Hu, Qingping Liu, 2010-03-26 The volume is very beneficial to both starting and experienced researchers working in the field of integrable nonlinear equations soliton theory and nonlinear waves It will be an excellent reference book for graduate students majoring in mathematical physics and engineering sciences This volume covers a broad range of current interesting topics in nonlinear and modern mathematical physics and reviews recent developments in integrable systems soliton theory and nonlinear dynamics The book is suitable for both starting and experienced researchers working in nonlinear sciences and it is a good reference for students of mathematical physical and engineering sciences **Differential Equations with Symbolic Computation** Dongming Wang, Zhiming Zheng, 2006-03-16 This book presents the state of the art in tackling differential equations using advanced methods and software tools of symbolic computation It focuses on the symbolic computational aspects of three kinds of fundamental problems in differential equations transforming the equations solving the equations and studying the structure and properties of their solutions *Zeitschrift Für Naturforschung*, 2009 Exact Methods for Nonlinear PDEs Andreï Dmitrievich Poliñin, 2025 The book describes and illustrates how to apply effective analytical methods to obtain exact solutions to nonlinear differential equations of mathematical physics and other partial differential equations Nonlinear partial differential equations of the second and higher orders including nonlinear equations of mathematical physics are commonly encountered in various fields of mathematics physics mechanics chemistry and biology and in numerous applications Finding a general solution to these equations is only possible in exceptional cases Therefore one usually has to limit themselves to identifying and analyzing particular solutions which are referred to as exact solutions A solution is exact if when substituted into the mathematical equation it turns the equation into an identity No approximations or simplifications of the equation are allowed and no a priori assumptions are used Exact solutions to equations of mathematical physics greatly enhance our understanding of the qualitative features of many phenomena and processes in various fields of natural science Simple solutions of linear and nonlinear differential equations are widely used to illustrate theoretical material and various applications in university and college courses on applied mathematics theoretical physics fluid dynamics nonlinear optics and other disciplines Exact solutions are also necessary to update and improve relevant sections of computer software for

analytical calculations such as computer algebra systems like Mathematica Maple MATLAB and others The book includes examples and exercises to help the reader better understand the material and develop practical skills in solving nonlinear differential equations This book will be helpful for a wide range of researchers university teachers and engineers as well as graduate postgraduate and PhD students [Mathematical Reviews](#) ,2008 [National Workshop on Nonlinear Dynamics](#) M. Costato, Antonio Degasperis, M. Milani, 1995 **Advanced Engineering Mathematics with Mathematica and MATLAB** Reza Malek-Madani, 1998 See previous listing for contents **Artificial Intelligence, Expert Systems, and Symbolic Computing** Elias N. Houstis, John Rischard Rice, 1992 This volume contains papers in the areas of artificial intelligence expert systems symbolic computing and applications to scientific computing Together they provide an excellent overview of the dynamic state of these closely related fields They reveal a future where scientific computation will increasingly involve symbolic and artificial intelligence tools as these software systems become more sophisticated also a future where systems of computational science and engineering will be problem solving environments created with components from numerical analysis computational geometry symbolic computing and artificial intelligence *Cumulative Book Index* ,1998 A world list of books in the English language **Problem Solving in Chemical and Biochemical Engineering with POLYMATH, Excel, and MATLAB** Michael B. Cutlip, Mordechai Shacham, 2008 Problem Solving in Chemical and Biochemical Engineering with POLYMATH Excel and MATLAB Second Edition is a valuable resource and companion that integrates the use of numerical problem solving in the three most widely used software packages POLYMATH Microsoft Excel and MATLAB Recently developed POLYMATH capabilities allow the automatic creation of Excel spreadsheets and the generation of MATLAB code for problem solutions Students and professional engineers will appreciate the ease with which problems can be entered into POLYMATH and then solved independently in all three software packages while taking full advantage of the unique capabilities within each package The book includes more than 170 problems requiring numerical solutions This greatly expanded and revised second edition includes new chapters on getting started with and using Excel and MATLAB It also places special emphasis on biochemical engineering with a major chapter on the subject and with the integration of biochemical problems throughout the book General Topics and Subject Areas Organized by Chapter Introduction to Problem Solving with Mathematical Software Packages Basic Principles and Calculations Regression and Correlation of Data Introduction to Problem Solving with Excel Introduction to Problem Solving with MATLAB Advanced Problem Solving Techniques Thermodynamics Fluid Mechanics Heat Transfer Mass Transfer Chemical Reaction Engineering Phase Equilibrium and Distillation Process Dynamics and Control Biochemical Engineering Practical Aspects of Problem Solving Capabilities Simultaneous Linear Equations Simultaneous Nonlinear Equations Linear Multiple Linear and Nonlinear Regressions with Statistical Analyses Partial Differential Equations Using the Numerical Method of Lines Curve Fitting by Polynomials with Statistical Analysis Simultaneous Ordinary Differential Equations Including Problems Involving Stiff

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