

Inna Shingareva
Carlos Lizárraga-Celaya

Maple and Mathematica

A Problem Solving Approach
for Mathematics

2nd edition



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Maple And Mathematica A Problem Solving Approach For Mathematics

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MAPLE Roy A. Nicolaides, Noel J. Walkington, 1996-06-13 A knowledge of one or more high level symbolic mathematics programs is rapidly becoming a necessity for mathematics users from all fields of science The aim of this book is to provide a solid grounding in Maple one of the best known of these programs The authors combine efficiency and economy of exposition with a complete coverage of Maple The book has twelve chapters of which eight are completely accessible to anyone who has completed calculus and linear sequences as taught in American universities These chapters cover the great majority of Maple's capabilities There are also three chapters on Maple programming that can be read without prior programming experience although knowledge of a high level programming language Basic Fortran C etc will help There is also a chapter on some relevant aspects of algebra Above all the book allows the reader to extract value from Maple without wasting time and effort in the learning process It is the fastest track to expertise for Maple users in

mathematics and computer science

Maple and Mathematica Inna K. Shingareva, Carlos Lizárraga-Celaya, 2010-04-29 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 ne structure constant that was first discovered by A Sommerfeld and the mathematical tables exact lutions 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 discovery new results to provetheresultsthat 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 **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

Discovering Mathematics Jiří Gregor, Jaroslav Tišer, 2010-12-21 The book contains chapters of structured approach to problem solving in mathematical analysis on an intermediate level It follows the ideas of G Polya and others distinguishing between exercises and problem solving in mathematics Interrelated concepts are connected by hyperlinks pointing toward easier or more difficult problems so as to show paths of mathematical reasoning Basic definitions and theorems can also be found by hyperlinks from relevant places Problems are open to alternative formulations generalizations simplifications and verification of hypotheses by the reader this is shown to be helpful in solving problems The book presents how advanced mathematical software can aid all stages of mathematical reasoning while the mathematical content remains in foreground The authors show how software can contribute to deeper understanding and to enlarging the scope of teaching for students and teachers of mathematics

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

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

Mathematics for Physical Science and Engineering Frank E. Harris, 2014-05-24 Mathematics for Physical Science and Engineering is a complete text in mathematics for physical science that includes the use of symbolic computation to illustrate the mathematical concepts and enable the solution of a broader range of practical problems This book enables professionals to connect their knowledge of mathematics to either or both of the symbolic languages Maple and Mathematica The book begins by introducing the reader to symbolic computation and how it can be applied to solve a broad range of practical problems Chapters cover topics that include infinite series complex numbers and functions vectors and matrices vector analysis tensor analysis ordinary differential equations general vector spaces Fourier series partial differential equations complex variable theory and probability and statistics Each important concept is clarified to students through the use of a simple example and often an illustration This book is an ideal reference for upper level undergraduates in physical chemistry physics engineering and advanced applied mathematics courses It will also appeal to graduate physicists engineers and related specialties seeking to address practical problems in physical science Clarifies each important concept to students through the use of a simple example and often an illustration Provides quick reference for students through multiple appendices including an overview of terms in most commonly used applications Mathematica Maple Shows how symbolic computing enables solving a broad range of practical problems **The Mathematics of Medical Imaging** Timothy G.

Feeman, 2010 Medical imaging is a major part of twenty first century health care This introduction explores the mathematical aspects of imaging in medicine to explain approximation methods in addition to computer implementation of inversion algorithms *Applying Maths in the Chemical and Biomolecular Sciences* Godfrey Beddard, 2009-09-03 Godfrey Beddard is

Professor of Chemical Physics in the School of Chemistry University of Leeds where his research interests encompass femtosecond spectroscopy electron and energy transfer and protein folding and unfolding 1 Numbers Basic Functions and Algorithms 2 Complex Numbers 3 Differentiation 4 Integration 5 Vectors 6 Matrices and Determinants 7 Matrices in Quantum Mechanics 8 Summations Series and Expansion of Functions 9 Fourier Series and Transforms 10 Differential Equations 11 Numerical Methods 12 Monte carlo Methods 13 Statistics and Data Analysis *The Art of Programming in the*

Mathematica System Victor Aladjev, Valery Boiko, Michael Shishakov, 2016-11-25 Software presented in the book contain a number of useful and effective receptions of procedural and functional programming in the Mathematica that extend the system software and allow sometimes more efficiently and easily to program the projects for various purposes The presented tools are of interest not only as independent tools but also contain a number of the receptions useful in practical

programming in the Mathematica software having a rather essential training character The above software rather essentially dilates the Mathematica functionality and can be useful enough for programming of many appendices Moreover the MathToolBox package containing more 940 tools of various purposes with freeware license is attached to the book The given book is oriented on a wide enough circle of the users of computer mathematics systems researchers teachers and students of universities for courses of computer science mathematics physics and many other natural disciplines **Dynamical**

Systems with Applications using Maple™ Stephen Lynch, 2009-12-23 Since the first edition of this book was published in 2001 the algebraic computation package Maple has evolved from Maple V into Maple 13 Accordingly the second edition has been thoroughly updated and new material has been added In this edition there are many more applications examples and exercises all with solutions and new chapters on neural networks and simulation have been added

There are also new sections on perturbation methods normal forms Gröbner bases and chaos synchronization This book provides an introduction to the theory of dynamical systems with the aid of the Maple algebraic manipulation package It is written for both senior undergraduates and graduate students The first part of the book deals with continuous systems using ordinary differential equations Chapters 1-10 the second part is devoted to the study of discrete dynamical systems Chapters 11-15 and Chapters 16-18 deal with both continuous and discrete systems Chapter 19 lists examination type questions used by the author over many years one set to be used in a computer laboratory with access to Maple and the other set to be used without access to Maple Chapter 20 lists answers to all of the exercises given in the book It should be pointed out that dynamical systems theory is not limited to these topics but also encompasses partial differential equations integral and integro differential equations stochastic systems and time delay systems for instance References 1-5 given at the end of the Preface provide more information for the interested reader **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 **Efficient Nonlinear Adaptive Filters** Haiquan Zhao, Badong

Chen, 2023-02-10 This book presents the design analysis and application of nonlinear adaptive filters with the goal of improving efficient performance i.e. the convergence speed steady state error and computational complexity The authors present a nonlinear adaptive filter which is an important part of nonlinear system and digital signal processing and can be applied to diverse fields such as communications control power system radar sonar etc The authors also present an efficient

nonlinear filter model and robust adaptive filtering algorithm based on the local cost function of optimal criterion to overcome non Gaussian noise interference The authors show how these achievements provide new theories and methods for robust adaptive filtering of nonlinear and non Gaussian systems The book is written for the scientist and engineer who are not necessarily an expert in the specific nonlinear filtering field but who want to learn about the current research and application The book is also written to accompany a graduate PhD course in the area of nonlinear system and adaptive signal processing *Journal of Economics* ,2007-09 **The Princeton Companion to Mathematics** Timothy Gowers,June Barrow-Green,Imre Leader,2008-09-28 A comprehensive guide to mathematics with over 200 entries divided thematically

Extension of Mathematica system functionality Victor Aladjev,Vjacheslav Vaganov,2015-06-08 Systems of computer mathematics find more and more broad application in a number of natural economical and social fields One of leaders among means of this class undoubtedly is Mathematica system The book focuses on one important aspect modular programming supported by Mathematica Software presented in the book contain a number of rather useful and effective methods of procedural and functional programming in Mathematica system that extend the system software and allow sometimes more efficiently and easily to program the objects for various purposes first of all of system character The above software essentially dilate the Mathematica functionality and can be useful for programming of many applications above all of system character The book is provided with freeware package AVZ_Package containing more than 680 procedures functions global variables and other program objects The present book is oriented on a wide enough range of users of systems of the computer mathematics **Numerical Methods and Statistical Techniques Using 'C'** Manish Goyal,2009 *General Statistics* Victor Aladjev,Vjacheslav Vaganov,2014-10-17 The book is a statistic course for undergraduate students in all fields of social and economic sciences The book presents a manual on a course General Statistics including a series of not quite traditional topics Above all it concerns the mathematical bases of statistics and use of computer technologies in statistic probing At that thematic choice of the chapters and sections of the book is caused not only by interests and tastes of the authors but also by modern tendencies in applied statistics and orientation of the given work The book contains a series of concrete proposals for improvement of statistic practice many of them are based on our experience in practical statistical activity in statistical organs of USSR and Estonia A comparability aspect of the Soviet statistic school inheriting many traditions of the worldwide known Russian school of probability theory and statistics with western statistics can be a rather interesting to the English speaking reader **Избранные системные задачи в программной среде Mathematica** Виктор Аладьев,Дмитрий Гринь,Вячеслав Ваганов,2013

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