

David Betounes Mylan Redfern

Mathematical Computing



An Introduction to Programming
Using Maple[®]



Mathematical Computing

Walter Gander, Jiri Hrebicek



Mathematical Computing:

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Mathematical Computing in J: Introduction Howard A. Peelle, 2004 This book introduces mathematical computing using J a powerful new programming language with applications in mathematics actuarial analysis scientific research business data processing and education Derived from APL J was designed as an executable mathematical notation by Dr Kenneth E Iverson and was implemented by Roger K W Hui J unifies many areas of mathematics has a simple consistent syntax with very few rules yet includes a large number of functions and operators as tools for thinking and problem solving

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Artificial Intelligence and Symbolic Mathematical Computing Jacques Calmet, John A. Campbell, 1993-10-05 This volume contains the papers updated in some cases presented at the first AISMC Artificial Intelligence and Symbolic Mathematical Computations conference held in Karlsruhe August 3 6 1992 This was the first conference to be devoted to such a topic after a long period when SMC made no appearance in AI conferences though it used to be welcome in the early days of AI Some conferences were held recently on mathematics and AI but none was directly comparable in scope to this conference Because of the novelty of the domain authors were given longer allocations of time than usual in which to present their work As a result extended and fruitful discussions followed each paper The introductory chapter in this book which was not presented during the conference reflects in many ways the flavor of these discussions and aims to set out the framework for future activities in this domain of research In addition to the introduction the volume contains 20 papers

Mathematical Computing and Sustainability Shalli Rani, Syed Hassan Shah, Ayush Dogra, 2025-10-20 The book is likely intended to provide a thorough knowledge of the complex relationships between computational intelligence mathematical computing and sustainability By taking an interdisciplinary approach the author may strive to connect theoretical frameworks with practical applications providing readers with a road map for navigating the intricacies of addressing long term difficulties The book could use case studies and examples to demonstrate how cutting edge technologies and mathematical models can be used to analyse and solve real world sustainability problems ultimately encouraging a holistic approach that fosters innovative solutions based on computational and mathematical principles This book is planned to cover the comprehensive investigation into the synergies between Computational Intelligence CI Mathematical Computing and Sustainability An examination of the possible impact of intelligent systems on sustainability new concepts and approaches for incorporating CI and mathematical computing into sustainable practices etc There will be chapters explaining the Exploration of upcoming technologies e g quantum computing bio inspired computing and their potential role in promoting sustainability

Integrating Symbolic Mathematical Computation and Artificial Intelligence Jacques Calmet, 1995-08-10 This volume contains thoroughly revised full versions of the best papers presented at the Second International Conference on Artificial Intelligence and Symbolic Mathematical Computation held in Cambridge UK in August 1994 The 19 papers included give clear evidence that now after a quite long period when AI and mathematics appeared to have arranged an amicable separation these fields are growing together again as an area of fruitful interdisciplinary activities This book explores the interaction between mathematical computation and clears the ground for future concentration on topics that can further unify the field

Mathematical Computing David Betounes, Mylan Redfern, 2001-12-07 This book teaches introductory

computer programming using Maple offering more mathematically oriented exercises and problems than those found in traditional programming courses while reinforcing and applying concepts and techniques of calculus Includes case studies

Mathematics in Computing Gerard O'Regan, 2012-11-15 This clearly written and enlightening textbook provides a concise introductory guide to the key mathematical concepts and techniques used by computer scientists Topics and features ideal for self study offering many pedagogical features such as chapter opening key topics chapter introductions and summaries review questions and a glossary places our current state of knowledge within the context of the contributions made by early civilizations such as the ancient Babylonians Egyptians and Greeks examines the building blocks of mathematics including sets relations and functions presents an introduction to logic formal methods and software engineering explains the fundamentals of number theory and its application in cryptography describes the basics of coding theory language theory and graph theory discusses the concept of computability and decideability includes concise coverage of calculus probability and statistics matrices complex numbers and quaternions [An Introduction to Modern](#)

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the Turing Award and the Abel Prize an introduction to computational complexity theory its connections and interactions with mathematics and its central role in the natural and social sciences technology and philosophy Mathematics and Computation provides a broad conceptual overview of computational complexity theory the mathematical study of efficient computation With important practical applications to computer science and industry computational complexity theory has evolved into a highly interdisciplinary field with strong links to most mathematical areas and to a growing number of scientific endeavors Avi Wigderson takes a sweeping survey of complexity theory emphasizing the field's insights and challenges He explains the ideas and motivations leading to key models notions and results In particular he looks at

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Mathematical Principles for Scientific Computing and Visualization Gerald Farin,Dianne Hansford,2008-10-21 This non traditional introduction to the mathematics of scientific computation describes the principles behind the major methods from statistics applied mathematics scientific visualization and elsewhere in a way that is accessible to a large part of the scientific community Introductory material includes computational basics a review of coordinate systems an introduction to facets planes and triangle meshes and an introduction to computer graphics The scientific computing part of the book covers topics in numerical linear algebra basics solving linear system eigen problems SVD and PCA and numerical calculus basics data fitting dynamic processes root finding and multivariate functions The visualization component of the book is separated into three parts empirical data scalar values over 2D data and volumes

Mathematical Computer Performance and Reliability Giuseppe G. Iazeolla,Pierre Jacques Courtois,A. Hordijk,1984 Hardbound This book provides a review of this field and incorporates some of the most significant quantitative methods which can satisfy the demand of scientists and users interested in the mathematics of computer system engineering It emphasizes interdisciplinary aspects of applied mathematics and computer science and is the result of contributions by scientists who are active in applied mathematical research of interest to the analysis of computer performance and reliability

Experimental and Computational Mathematics Jonathan M. Borwein,2010 A quiet revolution in mathematical computing and scientific visualization took place in the latter half of the 20th century These developments have dramatically enhanced modes of mathematical insight and opportunities for exploratory computational experimentation This volume collects the experimental and computational contributions of Jonathan and Peter Borwein over the past quarter century

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 *The Influence of Computing on Mathematical Research and Education* Joseph P LaSalle,Joseph P. LaSalle,1974 *Mathematical Tables and Other Aids to Computation* ,1954 A Mathematical Solution Book Containing Systematic Solutions to Many of the Most Difficult Problems Benjamin Franklin Finkel,1888 **Mathematics for Computing** C. A. Whitehead,1992-01-01

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