

Christoph W. Ueberhuber

Numerical ¹Computation

Methods, Software, and Analysis



Springer

Numerical Computation 1 Vol Xvi Methods Software And Analysis

Peter Deufilhard



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The Mathematical-Function Computation Handbook Nelson H.F. Beebe, 2017-08-20 This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics extending the function coverage of major programming languages well beyond their international standards including full support for decimal floating point arithmetic Written with clarity and focusing on the C language the work pays extensive attention to little understood aspects of floating point and integer arithmetic and to software portability as well as to important historical architectures It extends support to a future 256 bit floating point format offering 70 decimal digits of precision Select Topics and Features references an exceptionally useful author maintained MathCW website containing source code for the book s software compiled libraries for numerous systems pre built C compilers and other related materials offers a unique approach to covering mathematical function computation using decimal arithmetic provides extremely versatile appendices for interfaces to numerous other languages Ada C C Fortran Java and Pascal presupposes only basic familiarity with computer programming in a common language as well as early level algebra supplies a library that readily adapts for existing scripting languages with minimal effort supports both binary and decimal arithmetic in up to 10 different floating point formats covers a significant portion with highly accurate implementations of the U S National Institute of Standards and Technology s 10 year project to codify mathematical functions This highly practical text reference is an invaluable tool for advanced undergraduates recording many lessons of the intermingled history of computer hardware and software numerical algorithms and mathematics In addition professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades **Multigrid**

Methods V Wolfgang Hackbusch, Gabriel Wittum, 2012-12-06 This volume contains a selection from the papers presented at the Fifth European Multigrid Conference held in Stuttgart October 1996 All contributions were carefully refereed The conference was organized by the Institute for Computer Applications ICA of the University of Stuttgart in cooperation with the GAMM Committee for Scientific Computing SFB 359 and 404 and the research network WiR Ba W The list of topics contained lectures on Multigrid Methods robustness adaptivity wavelets parallelization application in computational fluid dynamics porous media flow optimisation and computational mechanics A considerable part of the talks focused on algebraic multigrid methods **High Performance Computing in Science and Engineering '98** Egon Krause, Willi

Jäger, 2012-12-06 The book contains reports about the most significant projects from science and industry that are using the supercomputers of the Federal High Performance Computing Center Stuttgart HLRS These projects are from different scientific disciplines with a focus on engineering physics and chemistry They were carefully selected in a peer review process and are showcases for an innovative combination of state of the art physical modeling novel algorithms and the use of leading edge parallel computer technology As HLRS is in close cooperation with industrial companies special emphasis has been put

on the industrial relevance of results and methods **Spectral Elements for Transport-Dominated Equations** Daniele Funaro,1997-04-17 The book deals with the numerical approximation of various PDEs using the spectral element method with particular emphasis for elliptic equations dominated by first order terms It provides a simple introduction to spectral elements with additional new tools upwind grids and preconditioners Applications to fluid dynamics and semiconductor devices are considered as well as in other models where transport diffusion equations arise The aim is to provide the reader with both introductory and more advanced material on spectral Legendre collocation methods The book however does not cover all the aspects of spectral methods Engineers physicists and applied mathematicians may study how to implement the collocation method and use the results to improve their computational codes **Subject Guide to Books in Print** ,1993

Basic Concepts in Computational Physics Benjamin A. Stickler,Ewald Schachinger,2016-03-21 This new edition is a concise introduction to the basic methods of computational physics Readers will discover the benefits of numerical methods for solving complex mathematical problems and for the direct simulation of physical processes The book is divided into two main parts Deterministic methods and stochastic methods in computational physics Based on concrete problems the first part discusses numerical differentiation and integration as well as the treatment of ordinary differential equations This is extended by a brief introduction to the numerics of partial differential equations The second part deals with the generation of random numbers summarizes the basics of stochastics and subsequently introduces Monte Carlo MC methods Specific emphasis is on MARKOV chain MC algorithms The final two chapters discuss data analysis and stochastic optimization All this is again motivated and augmented by applications from physics In addition the book offers a number of appendices to provide the reader with information on topics not discussed in the main text Numerous problems with worked out solutions chapter introductions and summaries together with a clear and application oriented style support the reader Ready to use C codes are provided online *Simulation and Computational Red Teaming for Problem Solving* Jiangjun Tang,George Leu,Hussein A. Abbass,2019-10-18 An authoritative guide to computer simulation grounded in a multi disciplinary approach for solving complex problems Simulation and Computational Red Teaming for Problem Solving offers a review of computer simulation that is grounded in a multi disciplinary approach The authors present the theoretical foundations of simulation and modeling paradigms from the perspective of an analyst The book provides the fundamental background information needed for designing and developing consistent and useful simulations In addition to this basic information the authors explore several advanced topics The book s advanced topics demonstrate how modern artificial intelligence and computational intelligence concepts and techniques can be combined with various simulation paradigms for solving complex and critical problems Authors examine the concept of Computational Red Teaming to reveal how the combined fundamentals and advanced techniques are used successfully for solving and testing complex real world problems This important book Demonstrates how computer simulation and Computational Red Teaming support each other for solving complex problems

Describes the main approaches to modeling real world phenomena and embedding these models into computer simulations
Explores how a number of advanced artificial intelligence and computational intelligence concepts are used in conjunction with the fundamental aspects of simulation
Written for researchers and students in the computational modelling and data analysis fields
Simulation and Computational Red Teaming for Problem Solving covers the foundation and the standard elements of the process of building a simulation and explores the simulation topic with a modern research approach

Computational Molecular Dynamics: Challenges, Methods, Ideas Peter Deuflhard, 1999
On May 21-24 1997 the Second International Symposium on Algorithms for Macromolecular Modelling was held at the Konrad Zuse Zentrum in Berlin. The event brought together computational scientists in fields like biochemistry, biophysics, physical chemistry or statistical physics and numerical analysts as well as computer scientists working on the advancement of algorithms for a total of over 120 participants from 19 countries. In the course of the symposium the speakers agreed to produce a representative volume that combines survey articles and original papers, all refereed to give an impression of the present state of the art of Molecular Dynamics. The 29 articles of the book reflect the main topics of the Berlin meeting which were: i Conformational Dynamics, ii Thermodynamic Modelling, iii Advanced Time Stepping Algorithms, iv Quantum Classical Simulations and Fast Force Field and v Fast Force Field Evaluation.

Scientific and Technical Aerospace Reports, 1992

Parallel Computation Peter Zinterhof, Marian Vajtersic, Andreas Uhl, 2003-05-21
This book constitutes the refereed proceedings of the 4th International Conference on Parallel Computation (ACPC 99) held in Salzburg, Austria, in February 1999. The conference included special tracks on parallel numerics and on parallel computing in image processing, video processing and multimedia. The volume presents 50 revised full papers selected from a total of 75 submissions. Also included are four invited papers and 15 posters. The papers are organized in topical sections on: linear algebra, differential equations and interpolation, Quasi Monte Carlo methods, numerical software, numerical applications, image segmentation and image understanding, motion estimation and block matching, video processing, wavelet techniques, satellite image processing, data structures, data partitioning, resource allocation and performance analysis, cluster computing and simulation, and applications.

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

Computer Modeling in Engineering & Sciences, 2009 **The Electrical Engineering Handbook - Six Volume Set** Richard C. Dorf, 2018-12-14 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has grown into a set of six books carefully focused on specialized areas or fields of study Each one represents a concise yet definitive collection of key concepts models and equations in its respective domain thoughtfully gathered for convenient access Combined they constitute the most comprehensive authoritative resource available Circuits Signals and Speech and Image Processing presents all of the basic information related to electric circuits and components analysis of circuits the use of the Laplace transform as well as signal speech and image processing using filters and algorithms It also examines emerging areas such as text to speech synthesis real time processing and embedded signal processing Electronics Power Electronics Optoelectronics Microwaves Electromagnetics and Radar delves into the fields of electronics integrated circuits power electronics optoelectronics electromagnetics light waves and radar supplying all of the basic information required for a deep understanding of each area It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power electronics Sensors Nanoscience Biomedical Engineering and Instruments provides thorough coverage of sensors materials and nanoscience instruments and measurements and biomedical systems and devices including all of the basic information required to thoroughly understand each area It explores the emerging fields of sensors nanotechnologies and biological effects Broadcasting and Optical Communication Technology explores communications information theory and devices covering all of the basic information needed for a thorough understanding of these areas It also examines the emerging areas of adaptive estimation and optical communication Computers Software Engineering and Digital Devices examines digital and logical devices displays testing software and computers presenting the fundamental concepts needed to ensure a thorough understanding of each field It treats the emerging fields of programmable logic hardware description languages and parallel computing in detail Systems Controls Embedded Systems Energy and Machines explores in detail the fields of energy devices machines and systems as well as control systems It provides all of the fundamental concepts needed for thorough in depth understanding of each area and devotes special attention to the emerging area of embedded systems Encompassing the work of the world's foremost experts in their respective specialties The Electrical Engineering Handbook Third Edition remains the most convenient reliable source of information available This edition features the latest developments the broadest scope of coverage and new material on nanotechnologies fuel cells embedded systems and biometrics The engineering community has relied on the Handbook for more than twelve years and it will continue to be a platform to launch the next wave of advancements The

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Applied Mechanics Reviews, 1993

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