

Scientific Computing



Mathematical Elements Of Scientific Computing

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Mathematical Elements Of Scientific Computing:

Mathematical elements of scientific computing Ramon E. Moore, 1975 *Elements of Scientific Computing* Aslak Tveito, Hans Petter Langtangen, Bjørn Frederik Nielsen, Xing Cai, 2010-09-24 Science used to be experiments and theory now it is experiments theory and computations The computational approach to understanding nature and technology is currently flowering in many fields such as physics geophysics astrophysics chemistry biology and most engineering disciplines This book is a gentle introduction to such computational methods where the techniques are explained through examples It is our goal to teach principles and ideas that carry over from field to field You will learn basic methods and how to implement them In order to gain the most from this text you will need prior knowledge of calculus basic linear algebra and elementary programming

Scientific Computing John A. Trangenstein, 2018-05-14 This is the third of three volumes providing a comprehensive presentation of the fundamentals of scientific computing This volume discusses topics that depend more on calculus than linear algebra in order to prepare the reader for solving differential equations This book and its companions show how to determine the quality of computational results and how to measure the relative efficiency of competing methods Readers learn how to determine the maximum attainable accuracy of algorithms and how to select the best method for computing problems This book also discusses programming in several languages including C Fortran and MATLAB There are 90 examples 200 exercises 36 algorithms 40 interactive JavaScript programs 91 references to software programs and 1 case study Topics are introduced with goals literature references and links to public software There are descriptions of the current algorithms in GSLIB and MATLAB This book could be used for a second course in numerical methods for either upper level undergraduates or first year graduate students Parts of the text could be used for specialized courses such as nonlinear optimization or iterative linear algebra

Mastering Python Scientific Computing Hemant Kumar Mehta, 2015-09-23 A complete guide for Python programmers to master scientific computing using Python APIs and tools About This Book The basics of scientific computing to advanced concepts involving parallel and large scale computation are all covered Most of the Python APIs and tools used in scientific computing are discussed in detail The concepts are discussed with suitable example programs Who This Book Is For If you are a Python programmer and want to get your hands on scientific computing this book is for you The book expects you to have had exposure to various concepts of Python programming What You Will Learn Fundamentals and components of scientific computing Scientific computing data management Performing numerical computing using NumPy and SciPy Concepts and programming for symbolic computing using SymPy Using the plotting library matplotlib for data visualization Data analysis and visualization using Pandas matplotlib and IPython Performing parallel and high performance computing Real life case studies and best practices of scientific computing In Detail In today's world along with theoretical and experimental work scientific computing has become an important part of scientific disciplines Numerical calculations simulations and computer modeling in this day and age form the vast majority of both

experimental and theoretical papers In the scientific method replication and reproducibility are two important contributing factors A complete and concrete scientific result should be reproducible and replicable Python is suitable for scientific computing A large community of users plenty of help and documentation a large collection of scientific libraries and environments great performance and good support makes Python a great choice for scientific computing At present Python is among the top choices for developing scientific workflow and the book targets existing Python developers to master this domain using Python The main things to learn in the book are the concept of scientific workflow managing scientific workflow data and performing computation on this data using Python The book discusses NumPy SciPy SymPy matplotlib Pandas and IPython with several example programs Style and approach This book follows a hands on approach to explain the complex concepts related to scientific computing It details various APIs using appropriate examples

Computer Aided Proofs in Analysis Kenneth R. Meyer, Dieter S. Schmidt, 2012-12-06 This IMA Volume in Mathematics and its Applications COMPUTER AIDED PROOFS IN ANALYSIS is based on the proceedings of an IMA Participating Institutions PI Conference held at the University of Cincinnati in April 1989 Each year the 19 Participating Institutions select through a competitive process several conferences proposals from the PIs for partial funding This conference brought together leading figures in a number of fields who were interested in finding exact answers to problems in analysis through computer methods We thank Kenneth Meyer and Dieter Schmidt for organizing the meeting and editing the proceedings A vner Friedman Willard Miller Jr

PREFACE Since the dawn of the computer revolution the vast majority of scientific computation has dealt with finding approximate solutions of equations However during this time there has been a small cadre seeking precise solutions of equations and rigorous proofs of mathematical results For example number theory and combinatorics have a long history of computer assisted proofs such methods are now well established in these fields In analysis the use of computers to obtain exact results has been fragmented into several schools

Scientific Computing and Applications Peter Mineev, Yanping Lin, 2001 Scientific Computing Applications

Scientific Computing in Electrical Engineering Ursula van Rienen, Michael Günther, Dirk Hecht, 2012-12-06 rd This book presents a collection of selected contributions presented at the 3 International Workshop on Scientific Computing in Electrical Engineering SCEE 2000 which took place in Warnemünde Germany from August 20 to 23 2000 Nearly hundred scientists and engineers from thirteen countries gathered in Warnemünde to participate in the conference Rostock University the oldest university in Northern Europe founded in 1419 hosted the conference This workshop followed two earlier workshops held 1997 at the Darmstadt University of Technology and 1998 at Weierstrass Institute for Applied Analysis and Stochastics in Berlin under the auspices of the German Mathematical Society These workshops aimed at bringing together two scientific communities applied mathematicians and electrical engineers who do research in the field of scientific computing in electrical engineering This of course is a wide field which is why it was decided to concentrate on selected major topics The workshop in Darmstadt which was organized by

Michael Giinther from the Mathematics Department and Ursula van Rienen from the Department of Electrical Engineering and Information Technology brought together more than hundred scientists interested in numerical methods for the simulation of circuits and electromagnetic fields This was a great success Voices coming from the participants suggested that it was time to bring these communities together in order to get to know each other to discuss mutual interests and to start cooperative work A collection of selected contributions appeared in Surveys on Mathematics for Industry Vol 8 No 3 4 and Vol 9 No 2 1999 Computer Algebra in Scientific Computing Vladimir P. Gerdt, Wolfram Koepf, Werner M. Seiler, Evgenii V. Vorozhtsov, 2015-09-10 This book constitutes the proceedings of the 17th International Workshop on Computer Algebra in Scientific Computing CASC 2015 held in Aachen Germany in September 2015 The 35 full papers presented in this volume were carefully reviewed and selected from 42 submissions They deal with the ongoing progress both in theoretical computer algebra and its expanding applications New and closer interactions are fostered by combining the area of computer algebra methods and systems and the application of the tools of computer algebra for the solution of problems in scientific computing

A Gentle Introduction to Scientific Computing Dan Stanescu, Long Lee, 2022-05-01 Scientific Computation has established itself as a stand alone area of knowledge at the borderline between computer science and applied mathematics Nonetheless its interdisciplinary character cannot be denied its methodologies are increasingly used in a wide variety of branches of science and engineering A Gentle Introduction to Scientific Computing intends to serve a very broad audience of college students across a variety of disciplines It aims to expose its readers to some of the basic tools and techniques used in computational science with a view to helping them understand what happens behind the scenes when simple tools such as solving equations plotting and interpolation are used To make the book as practical as possible the authors explore their subject both from a theoretical mathematical perspective and from an implementation driven programming perspective Features Middle ground approach between theory and implementation Suitable reading for a broad range of students in STEM disciplines Could be used as the primary text for a first course in scientific computing Introduces mathematics majors without any prior computer science exposure to numerical methods All mathematical knowledge needed beyond Calculus together with the most widely used Calculus notation and concepts is introduced in the text to make it self contained

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 Large-Scale Scientific Computing Ivan Lirkov, Svetozar Margenov, Jerzy Wasniewski, 2010-04-23 This book constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Large Scale Scientific Computations LSSC 2009 held in Sozopol Bulgaria in June 2009 The 93 revised full papers presented together with 5 plenary and invited papers were carefully reviewed and selected from numerous submissions for inclusion in the book The papers are organized in topical sections on multilevel and multiscale preconditioning methods multilevel and multiscale methods for industrial applications environmental modeling control and uncertain systems application of metaheuristics to large scale problems monte carlo methods applications distributed computing grid and scientific and engineering applications reliable numerical methods for differential equations novel applications of optimization ideas to the numerical Solution of PDEs and contributed talks *Scientific Computing with Ordinary Differential Equations* Peter Deuflhard, Folkmar Bornemann, 2012-12-06 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics This renewal of interest both in research and teaching has led to the establishment of the series Texts in Applied Mathematics TAM The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics Thus the purpose of this textbook series is to meet the current and future needs of these advances and to encourage the teaching of new courses TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathematical Sciences AMS series which will focus on advanced textbooks and research level monographs *Parallel Scientific Computing in C++ and MPI* George Em Karniadakis, Robert M. Kirby, 2003-06-16 Accompanying CD ROM has a software suite containing all the functions and programs discussed **Parallel Scientific Computing in C++ and MPI** George Em Karniadakis, Robert M. Kirby II, 2003-06-16 Numerical algorithms modern programming techniques and parallel computing are often taught serially across different courses and different textbooks The need to integrate concepts and tools usually comes only in employment or in research after the courses are concluded forcing the student to synthesise what is perceived to be three independent subfields into one This book provides a seamless approach to stimulate the student simultaneously through the eyes of multiple disciplines leading to enhanced understanding of scientific computing as a whole The book includes both basic as well as advanced topics and places equal emphasis on the discretization of partial differential equations and on solvers Some of the advanced topics include wavelets high order methods non symmetric systems and parallelization of sparse systems The material covered is suited to students from engineering computer science physics and mathematics *Computer Algebra in Scientific Computing* Matthew England, Wolfram Koepf, Timur M. Sadykov, Werner M. Seiler, Evgenii V.

Vorozhtsov,2019-08-15 This book constitutes the refereed proceedings of the 21st International Workshop on Computer Algebra in Scientific Computing CASC 2019 held in Moscow Russia in August 2019 The 28 full papers presented together with 2 invited talks were carefully reviewed and selected from 44 submissions They deal with cutting edge research in all major disciplines of computer algebra The papers cover topics such as polynomial algebra symbolic and symbolic numerical computation applications of symbolic computation for investigating and solving ordinary differential equations applications of CASs in the investigation and solution of celestial mechanics problems and in mechanics physics and robotics **Applied**

Mathematics and Scientific Computing Zlatko Drmac,Vjeran Hari,Luka Sopta,Zvonimir Tutek,Kresimir

Veselic,2013-06-29 Proceedings of the second conference on Applied Mathematics and Scientific Computing held June 4 9 2001 in Dubrovnik Croatia The main idea of the conference was to bring together applied mathematicians both from outside academia as well as experts from other areas engineering applied sciences whose work involves advanced mathematical techniques During the meeting there were one complete mini course invited presentations contributed talks and software presentations A mini course Schwarz Methods for Partial Differential Equations was given by Prof Marcus Sarkis Worcester Polytechnic Institute USA and invited presentations were given by active researchers from the fields of numerical linear algebra computational fluid dynamics matrix theory and mathematical physics fluid mechanics and elasticity This volume contains the mini course and review papers by invited speakers Part I as well as selected contributed presentations from the field of analysis numerical mathematics and engineering applications Numerical and Symbolic Scientific Computing

Ulrich Langer,Peter Paule,2011-11-19 The book presents the state of the art and results and also includes articles pointing to future developments Most of the articles center around the theme of linear partial differential equations Major aspects are fast solvers in elastoplasticity symbolic analysis for boundary problems symbolic treatment of operators computer algebra and finite element methods a symbolic approach to finite difference schemes cylindrical algebraic decomposition and local Fourier analysis and white noise analysis for stochastic partial differential equations Further numerical symbolic topics range from applied and computational geometry to computer algebra methods used for total variation energy minimization

Error Control and Adaptivity in Scientific Computing Haydar Bulgak,Christoph Zenger,2012-12-06 One of the main ways by which we can understand complex processes is to create computerised numerical simulation models of them Modern simulation tools are not used only by experts however and reliability has therefore become an important issue meaning that it is not sufficient for a simulation package merely to print out some numbers claiming them to be the desired results An estimate of the associated error is also needed The errors may derive from many sources errors in the model errors in discretization rounding errors etc Unfortunately this situation does not obtain for current packages and there is a great deal of room for improvement Only if the error can be estimated is it possible to do something to reduce it The contributions in this book cover many aspects of the subject the main topics being error estimates and error control in numerical linear

algebra algorithms closely related to the concept of condition numbers interval arithmetic and adaptivity for continuous models

Tropical Mathematics and Applications to Theoretical Physics and Scientific Computing Abdel O. Kenoufi, Michel Gondran, Alexandre Gondran, 2025-01-27 Tropical Mathematics built on Idempotent Semi Rings and Dioids permits an extension of the usual Linear methods to Non Linear problems and provides powerful analyzing and computing in Theoretical Physics and Applied Mathematics Until recently solutions in mathematics and physics were organized around algebraic structures such as groups rings and fields These techniques are not well suited to modeling and solving non linear problems

Numerical Methods in Scientific Computing Germund Dahlquist, Ake Bjorck, 2008-01-01 This new book from the authors of the classic book Numerical methods addresses the increasingly important role of numerical methods in science and engineering More cohesive and comprehensive than any other modern textbook in the field it combines traditional and well developed topics with other material that is rarely found in numerical analysis texts such as interval arithmetic elementary functions operator series convergence acceleration and continued fractions Although this volume is self contained more comprehensive treatments of matrix computations will be given in a forthcoming volume A supplementary Website contains three appendices an introduction to matrix computations a description of Mulprec a MATLAB multiple precision package and a guide to literature algorithms and software in numerical analysis Review questions problems and computer exercises are also included For use in an introductory graduate course in numerical analysis and for researchers who use numerical methods in science and engineering

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