Scientific Computing

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Germund Dahlquist,Ake Bjorck

Mathematical Elements Of Scientific Computing:

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   Mathematical elements of scientific computing Ramon E. Moore,1975   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   **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 **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 compu tation 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 combina torics 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 Minev,Yanping Lin,2001 Scientific Computing 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 **Introduction to the Tools of Scientific Computing** Einar Smith,2022-10-27 The book provides an introduction to common programming tools and methods in

numerical mathematics and scientific computing Unlike standard approaches it does not focus on any specific language but aims to explain the underlying ideas Typically new concepts are first introduced in the particularly user friendly Python language and then transferred and extended in various programming environments from C C Julia and MATLAB to Maple and Mathematica This includes various approaches to distributed computing By examining and comparing different languages the book is also helpful for mathematicians and practitioners in deciding which programming language to use for which purposes At a more advanced level special tools for the automated solution of partial differential equations using the finite element method are discussed On a more experimental level the basic methods of scientific machine learning in artificial neural networks are explained and illustrated   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 Warnemiinde Germany from August 20 to 23 2000 Nearly hundred scientists and engineers from thirteen countries gathered in Warnemiinde to participate in the conference Rostock Univer sity 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 Anal ysis and Stochastics in Berlin under the auspices ofthe German Mathematical Society These workshops aimed at bringing together two scientific communi ties 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

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 **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

Guide to Scientific Computing Peter R. Turner,2001 This book introduces the reader to many of the problems of scientific computing and the wide variety of methods used for their solutions It discusses basic approaches and stimulates an appreciation of the need for numerical methods in solving different types of problems For each of the problems presented the author provides some mathematical justification and examples These serve as practical evidence and motivation for the reader to follow Practical justification of the methods is provided through computer examples and exercises The book includes an introduction to MATLAB but the code used is not intended to exemplify sophisticated or robust pieces of software it is purely illustrative of the method under discussion **Large-Scale Scientific Computing** Ivan Lirkov,Svetozar D. Margenov,Jerzy Wasniewski,2006-02-15 This book constitutes the thoroughly refereed post proceedings of the 5th International Conference on Large Scale Scientific Computations LSSC 2005 held in Sozopol Bulgaria in June 2005 The 75 revised full papers presented together with five invited papers were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections **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 **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

Parallel Scientific Computing in C++ and MPI George Karniadakis,Robert M. Kirby,2003-06-16 Accompanying CD ROM has a software suite containing all the functions and programs discussed **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 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 *Computer Algebra in Scientific Computing CASC'99* Victor G. Ganzha,Ernst W. Mayr,Evgenii V. Vorozhtsov,2012-12-06 The development of powerful computer algebra systems has considerably ex tended the scope of problems of scientific computing which can now be solved successfully with the aid of computers However as the field of applications of computer algebra in scientific computing becomes broader and more complex there is a danger of separation between theory systems and applications For this reason we felt the need to bring together the researchers who now ap ply the tools of computer algebra for the solution of problems in scientific computing in order to foster new and closer interactions CASC 99 is the second conference devoted to applications of computer al gebra in scientific computing The first conference in this sequence CASC 98 was held 20 24 April 1998 in St Petersburg Russia This volume contains revised versions of the papers submitted by the par ticipants and accepted by the program committee after a thorough reviewing process The collection of papers included in the proceedings covers various topics of computer algebra methods algorithms and software applied to scien tific computing symbolic

numeric analysis and solving differential equations efficient computations with polynomials groups matrices and other related objects special purpose programming environments application to physics mechanics optics and to other areas In particular a significant group of papers deals with applications of com puter algebra methods for the solution of current problems in group theory which mostly arise in mathematical physics *Mathematics for Modeling and Scientific Computing* Thierry Goudon,2016-10-14 This book provides the mathematical basis for investigating numerically equations from physics life sciences or engineering Tools for analysis and algorithms are confronted to a large set of relevant examples that show the difficulties and the limitations of the most na ve approaches These examples not only provide the opportunity to put into practice mathematical statements but modeling issues are also addressed in detail through the mathematical perspective

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