

Reliability

- The repeatability of results/observations/measurements.
- Reliability is measured (not improved) by repeating experiments – shows you how close your repeated results are.
- Reliability can be improved by using methods/equipment that are consistent from trial to trial.
- Be very specific in your method.



Accuracy And Reliability In Scientific Computing

Software Environments Tools

Bo Einarsson

Accuracy And Reliability In Scientific Computing Software Environments Tools:

Accuracy and Reliability in Scientific Computing Bo Einarsson,2005-08-01 This book investigates some of the difficulties related to scientific computing describing how these can be overcome **Accuracy and Reliability in Scientific Computing** Bo Einarsson,2005-01-01 Numerical software is used to test scientific theories design airplanes and bridges operate manufacturing lines control power plants and refineries analyze financial derivatives identify genomes and provide the understanding necessary to derive and analyze cancer treatments Because of the high stakes involved it is essential that results computed using software be accurate reliable and robust Unfortunately developing accurate and reliable scientific software is notoriously difficult This book investigates some of the difficulties related to scientific computing and provides insight into how to overcome them and obtain dependable results The tools to assess existing scientific applications are described and a variety of techniques that can improve the accuracy and reliability of newly developed applications is discussed Accuracy and Reliability in Scientific Computing can be considered a handbook for improving the quality of scientific computing It will help computer scientists address the problems that affect software in general as well as the particular challenges of numerical computation approximations occurring at all levels continuous functions replaced by discretized versions infinite processes replaced by finite ones and real numbers replaced by finite precision numbers Divided into three parts it starts by illustrating some of the difficulties in producing robust and reliable scientific software Well known cases of failure are reviewed and the what and why of numerical computations are considered The second section describes diagnostic tools that can be used to assess the accuracy and reliability of existing scientific applications In the last section the authors describe a variety of techniques that can be employed to improve the accuracy and reliability of newly developed scientific applications The authors of the individual chapters are international experts many of them members of the IFIP Working Group on Numerical Software

Introduction to High Performance Scientific Computing David L. Chopp,2019-03-01 Based on a course developed by the author Introduction to High Performance Scientific Computing introduces methods for adding parallelism to numerical methods for solving differential equations It contains exercises and programming projects that facilitate learning as well as examples and discussions based on the C programming language with additional comments for those already familiar with C The text provides an overview of concepts and algorithmic techniques for modern scientific computing and is divided into six self contained parts that can be assembled in any order to create an introductory course using available computer hardware Part I introduces the C programming language for those not already familiar with programming in a compiled language Part II describes parallelism on shared memory architectures using OpenMP Part III details parallelism on computer clusters using MPI for coordinating a computation Part IV demonstrates the use of graphical programming units GPUs to solve problems using the CUDA language for NVIDIA graphics cards Part V addresses programming on GPUs for non NVIDIA graphics cards using the OpenCL

framework Finally Part VI contains a brief discussion of numerical methods and applications giving the reader an opportunity to test the methods on typical computing problems *Parallel Processing for Scientific Computing* Michael A.

Heroux,Padma Raghavan,Horst D. Simon,2006-01-01 Parallel processing has been an enabling technology in scientific computing for more than 20 years This book is the first in depth discussion of parallel computing in 10 years it reflects the mix of topics that mathematicians computer scientists and computational scientists focus on to make parallel processing effective for scientific problems Presently the impact of parallel processing on scientific computing varies greatly across disciplines but it plays a vital role in most problem domains and is absolutely essential in many of them Parallel Processing for Scientific Computing is divided into four parts The first concerns performance modeling analysis and optimization the second focuses on parallel algorithms and software for an array of problems common to many modeling and simulation applications the third emphasizes tools and environments that can ease and enhance the process of application development and the fourth provides a sampling of applications that require parallel computing for scaling to solve larger and realistic models that can advance science and engineering **The Art of Differentiating Computer Programs** Uwe

Naumann,2012-01-01 This is the first entry level book on algorithmic also known as automatic differentiation AD providing fundamental rules for the generation of first and higher order tangent linear and adjoint code The author covers the mathematical underpinnings as well as how to apply these observations to real world numerical simulation programs Readers will find examples and exercises including hints to solutions the prototype AD tools dco and dcc for use with the examples and exercises first and higher order tangent linear and adjoint modes for a limited subset of C C provided by the derivative code compiler dcc a supplementary website containing sources of all software discussed in the book additional exercises and comments on their solutions growing over the coming years links to other sites on AD and errata *A Software Repository for Gaussian Quadratures and Christoffel Functions* Walter Gautschi,2020-10-30 This companion piece to the author s 2018 book A Software Repository for Orthogonal Polynomials focuses on Gaussian quadrature and the related Christoffel function The book makes Gauss quadrature rules of any order easily accessible for a large variety of weight functions and for arbitrary precision It also documents and illustrates known as well as original approximations for Gauss quadrature weights and Christoffel functions The repository contains 60 datasets each dealing with a particular weight function Included are classical quasi classical and most of all nonclassical weight functions and associated orthogonal polynomials Scientists engineers applied mathematicians and statisticians will find the book of interest *A Software Repository for Orthogonal Polynomials*

Walter Gautschi,2018-03-20 A Software Repository for Orthogonal Polynomials is the first book that provides graphs and references to online datasets that enable the generation of a large number of orthogonal polynomials with classical quasi classical and nonclassical weight functions Useful numerical tables are also included The book will be of interest to scientists engineers applied mathematicians and statisticians *Parallel MATLAB for Multicore and Multinode Computers* Jeremy

Kepner,2009-01-01 Parallel MATLAB for Multicore and Multinode Computers is the first book on parallel MATLAB and the first parallel computing book focused on the design code debug and test techniques required to quickly produce well performing parallel programs MATLAB is currently the dominant language of technical computing with one million users worldwide many of whom can benefit from the increased power offered by inexpensive multicore and multinode parallel computers MATLAB is an ideal environment for learning about parallel computing allowing the user to focus on parallel algorithms instead of the details of implementation This book covers more parallel algorithms and parallel programming models than any other parallel programming book due to the succinctness of MATLAB and presents a hands on approach with numerous example programs Wherever possible the examples are drawn from widely known and well documented parallel benchmark codes representative of many real applications

Mathematical Reviews ,2006 **Federal Register**

,2000-12-14 **American Book Publishing Record** ,2003 **Computer Arithmetic and Enclosure Methods** Lidiya Atanassova,Ju rgen Herzberger,1992 Scientists concerned with the interaction between computer arithmetic programming languages and scientific computing will be particularly interested in this book It focuses on papers presented at the conference and highlights the increasing impact of SCAN 91 in this area The volume contains original research and expository articles on the field of interaction between computer arithmetic and its realization in programming languages and the construction and investigation of numerical algorithms for computing guaranteed error bounds for the solution of various problems in applied mathematics and engineering Main subjects are software tools for enclosure algorithms and inclusion methods with the help of interval arithmetic in particular for the numerical solution of differential equations

Quality of Numerical Software Ronald F. Boisvert,1997-01-31 Numerical software is central to our computerized society It is used to control aeroplanes and bridges operate manufacturing lines control power plants and refineries and analyse financial markets Such software must be accurate reliable robust efficient easy to use maintainable and adaptable Quality assessment and control of numerical software is still not well understood Although measurement is a key element it remains difficult to assess many components of software quality and to evaluate the trade offs between them Fortunately as numerical software is built upon a long established foundation of mathematical and computational knowledge there is great potential for dramatic breakthroughs This volume will address enabling techniques and tools such as benchmarks testing methodologies quality standards metrics and accuracy control mechanisms and their application to software for differential equations linear algebra data analysis as well as the evaluation of integrals derivatives and elementary and special functions

SciDAC 2007

,2007 **High Performance Algorithms and Software in Nonlinear Optimization** Renato de Leone,1998-11-30 This book contains a selection of papers presented at the conference on High Performance Software for Nonlinear Optimization HPSNO97 which was held in Ischia Italy in June 1997 The book provides an overview of the nonlinear optimization field including algorithms software evaluation implementation issues applications and areas of research through authoritative

papers by some of the most active and well known researchers in the field The papers of the Proceedings can be recommended to mathematicians physicists and engineers working in the fields mentioned above as well as recommended for further reading within graduate studies **International Aerospace Abstracts** ,1999 *IMACS '91, 13th World Congress on Computation and Applied Mathematics* Robert Vichnevetsky,John J. H. Miller,1991 *Proceedings Computer Arithmetic Algebra OOP* **Computational Techniques and Applications, CTAC-89** William L. Hogarth,John Noye,1990 The main lectures delivered at the conference covered such topics as inverse problems in industry the application of computer intensive statistical methods in earth sciences and the conjugate gradient method in earth sciences 90 research papers were also presented **Biotechnology Software** ,1987 Computer & Control Abstracts ,1996

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