Reliable Numerical Computation

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Tibor Csendes

Reliable Numerical Computation:

   Reliable Numerical Computation M. G. Cox,S. J. Hammarling,1990 Published to honor the late Jim Wilkinson the respected pioneer in numerical analysis this book includes contributions from his colleagues and collaborators leading experts in their own right The breadth of Wilkinson s research is reflected in the topics covered which include linear algebra error analysis and computer arithmetic algorithms and mathematical software An invaluable reference the book is completely up to date with the latest developments on the Lanczos algorithm QR factorizations error propagation models parameter estimation problems sparse systems and shape preserving splines Reflecting the current growth and vitality of this field the volume is an essential reference for all numerical analysts   **Reliable Numerical Computation** Sven Hammarling,James Hardy Wilkinson,2023 A collection of research papers based on talks given in honour of Jim Wilkinson a pioneer of numerical analysis These papers provide information on new techniques in numerical analysis written by his colleagues and collaborators   Advances in Reliable Numerical Computation M. G. Cox,National Physical Laboratory (Great Britain). Division of Information Technology and Computing,1987   *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   *Reliability in Computing* Ramon E. Moore,2014-05-10 Perspectives in Computing Vol 19 Reliability in Computing The Role of Interval Methods in Scientific Computing presents a survey of the role

of interval methods in reliable scientific computing including vector arithmetic language description convergence and algorithms The selection takes a look at arithmetic for vector processors FORTRAN SC and reliable expression evaluation in PASCAL SC Discussions focus on interval arithmetic optimal scalar product matrix and vector arithmetic transformation of arithmetic expressions development of FORTRAN SC and language description with examples The text then examines floating point standards algorithms for verified inclusions applications of differentiation arithmetic and interval acceleration of convergence The book ponders on solving systems of linear interval equations interval least squares existence of solutions and iterations for nonlinear equations and interval methods for algebraic equations Topics include interval methods for single equations diagnosing collinearity interval linear equations effects of nonlinearity and bounding the solutions The publication is a valuable source of data for computer science experts and researchers interested in the role of interval methods in reliable scientific computing **Developments in Reliable Computing** Tibor Csendes,1999 The present volume contains 30 articles presented at SCAN 98 Budapest Hungary These papers cover all aspects of validation techniques in scientific computing ranging from hardware requirements elementary operations high accuracy function evaluations and interval arithmetic to advanced validating techniques and applications in various fields of practical interest Audience This book is of interest to researchers and graduate students whose work involves validation techniques in scientific computing

Computational Physics Devang Patil,2025-02-20 Computational Physics Basic Concepts serves as an indispensable guide for students researchers and enthusiasts exploring the intersection of physics and computational methods This book offers a comprehensive exploration of the fundamental principles of computational physics providing a solid foundation to tackle complex problems in various branches of physics The book begins by elucidating the foundational principles and theoretical underpinnings essential for effective computational simulations It covers a variety of numerical techniques including finite difference methods and Monte Carlo simulations with practical examples and applications Recognizing the importance of coding skills it includes a section on programming tailored for physicists teaching readers to implement numerical algorithms using popular programming languages Computational Physics Basic Concepts extends its coverage to diverse branches of physics such as classical mechanics electromagnetism quantum mechanics and statistical physics illustrating the versatility of computational techniques Each chapter includes problem solving exercises designed to reinforce understanding and enhance computational skills Techniques for data visualization and interpretation are discussed enabling effective communication of findings The book also shares practical tips and best practices to optimize computational workflows and avoid common pitfalls Whether you re a student new to computational physics or a seasoned researcher Computational Physics Basic Concepts provides a thorough and accessible resource for mastering the essential elements of this dynamic field *Contributions To Hardwave And Software Reliability* R B Garg,P K Kapur,Santosh Kumar,1999-04-01 With better computing facilities now available there is an ever increasing need to ensure that elegant theoretical results on hardware

reliability are computationally available This book discusses those aspects which have relevance to computing systems and those where numerical computation was a problem It is also well known that nearly 70% of the cost goes into software development and hence software reliability assumes special importance The book not only gives an extensive review of the literature on software reliability but also provides direction in developing models which are flexible and can be used in a variety of testing environments Besides several alternative formulations of the release time problem are discussed along with variants such as allocation of testing effort resources to different modules of the software or the testing effort control problem Software reliability has now emerged as an independent discipline and requires a strong partnership between computer scientists statisticians and operational researchers This aspect is broadly highlighted in the book *Contributions to Hardware and Software Reliability* P. K. Kapur,Santosh Kumar,R. B. Garg,1999 With better computing facilities now available there is an ever increasing need to ensure that elegant theoretical results on hardware reliability are computationally available This book discusses those aspects which have relevance to computing systems and those where numerical computation was a problem It is also well known that nearly 70% of the cost goes into software development and hence software reliability assumes special importance The book not only gives an extensive review of the literature on software reliability but also provides direction in developing models which are flexible and can be used in a variety of testing environments Besides several alternative formulations of the release time problem are discussed along with variants such as allocation of testing effort resources to different modules of the software or the testing effort control problem Software reliability has now emerged as an independent discipline and requires a strong partnership between computer scientists statisticians and operational researchers This aspect is broadly highlighted in the book *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 **IEEE ... Symposium on Reliable Distributed Systems** ,1997 Modeling and Simulation, Volume 23 William G. Vogt,Marlin H. Mickle,1992 Home Study for the Building Trades ,1898 **Introduction to Numerical Computation in Pascal** DEW/JAMES,2013-01-15 Our intention in this book is to cover the core material in numerical analysis normally taught to students on degree courses in computer science The main emphasis is placed on the use of analysis and programming techniques to produce well designed reliable mathematical software The treatment should be of interest also to students of mathematics science and engineering who wish to learn how to write good programs for mathematical computations The reader is assumed to have some acquaintance with Pascal programming Aspects of Pascal particularly relevant to numerical

computation are revised and developed in the first chapter Although Pascal has some drawbacks for serious numerical work for example only one precision for real numbers the language has major compensating advantages it is a widely used teaching language that will be familiar to many students and it encourages the writing of clear well structured programs By careful use of structure and documentation we have produced codes that we believe to be readable particular care has been taken to ensure that students should be able to understand the codes in conjunction with the descriptive material given in the book   *Government Reports Announcements* ,1973-05   **SIAM Journal on Numerical Analysis** ,2001   **Trends in Computerized Structural Analysis and Synthesis** Ahmed Khairy Noor,Harvey G. McComb,1978   *U.S. Government Research & Development Reports* ,1971   *Optical Fiber Reliability and Testing* M. John Matthewson,1999 This work presents a selection of papers dealing with optical fibre reliability and testing   *Optical Second-harmonic Generation in Semiconductor Alloys* Stanford University. Stanford Electronics Laboratories,Richard Allan Soref,1963 Optical second harmonic generation in semiconductors has been studied experimentally and theoretically to learn how energy band structure and lattice symmetry influence the efficiency of harmonic conversion Using a pulsed Nd3 glass laser harmonic generation was measured as a function of alloy composition in wurtzite ZnS CdS and CdS CdSe monocrystals to determine the effect of setting the energy gap at values either greater or less than the harmonic photon energy In the CdS CdSe series the harmonic radiation was readily observable despite the strong absorption of harmonic light The influence of lattice symmetry was studied by comparing harmonic generation in zinc blende and wurtzite semiconductors having similar energy gaps namely ZnSe ZnTe GaP GaAs CdS CdSe cubic ZnS and hexagonal ZnS It was found that the lattice structure had less effect upon the magnitude of these susceptibility tensor components than the band structure Author

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