

TEXTS AND MONOGRAPHS IN COMPUTER SCIENCE

METHODS AND APPLICATIONS OF ERROR-FREE COMPUTATION

R.T. Gregory
E.V. Krishnamurthy



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Methods Applications Of Error Free Computation

J. C. Misra



Methods Applications Of Error Free Computation:

Methods and Applications of Error-Free Computation R. T. Gregory, E. V. Krishnamurthy, 2012-12-06 This book is written as an introduction to the theory of error free computation In addition we include several chapters that illustrate how error free computation can be applied in practice The book is intended for seniors and first year graduate students in fields of study involving scientific computation using digital computers and for researchers in those same fields who wish to obtain an introduction to the subject We are motivated by the fact that there are large classes of ill conditioned problems and there are numerically unstable algorithms and in either or both of these situations we cannot tolerate rounding errors during the numerical computations involved in obtaining solutions to the problems Thus it is important to study finite number systems for digital computers which have the property that computation can be performed free of rounding errors In Chapter I we discuss single modulus and multiple modulus residue number systems and arithmetic in these systems where the operands may be either integers or rational numbers In Chapter II we discuss finite segment p adic number systems and their relationship to the p adic numbers of Hensel 1908 Each rational number in a certain finite set is assigned a unique Hensel code and arithmetic operations using Hensel codes as operands is mathematically equivalent to those same arithmetic operations using the corresponding rational numbers as operands Finite segment p adic arithmetic shares with residue arithmetic the property that it is free of rounding errors Numerical Analysis: Historical Developments in the 20th Century C. Brezinski, L. Wuytack, 2012-12-02 Numerical analysis has witnessed many significant developments in the 20th century This book brings together 16 papers dealing with historical developments survey papers and papers on recent trends in selected areas of numerical analysis such as approximation and interpolation solution of linear systems and eigenvalue problems iterative methods quadrature rules solution of ordinary partial and integral equations The papers are reprinted from the 7 volume project of the Journal of Computational and Applied Mathematics on homepage sac.cam.ac.uk/na2000/index.html Numerical Analysis 2000 An introductory survey paper deals with the history of the first courses on numerical analysis in several countries and with the landmarks in the development of important algorithms and concepts in the field

Error-Free Polynomial Matrix Computations E.V. Krishnamurthy, 2012-12-06 This book is written as an introduction to polynomial matrix computations It is a companion volume to an earlier book on Methods and Applications of Error Free Computation by R T Gregory and myself published by Springer Verlag New York 1984 This book is intended for seniors and graduate students in computer and system sciences and mathematics and for researchers in the fields of computer science numerical analysis systems theory and computer algebra Chapter I introduces the basic concepts of abstract algebra including power series and polynomials This chapter is essentially meant for bridging the gap between the abstract algebra and polynomial matrix computations Chapter II is concerned with the evaluation and interpolation of polynomials The use of these techniques for exact inversion of polynomial matrices is explained in the light of currently available error free

computation methods In Chapter III the principles and practice of Fourier evaluation and interpolation are described In particular the application of error free discrete Fourier transforms for polynomial matrix computations is considered

Computational Error and Complexity in Science and Engineering Vangipuram Lakshmikantham, Syamal Kumar Sen, 2005-03-04 The book *Computational Error and Complexity in Science and Engineering* pervades all the science and engineering disciplines where computation occurs Scientific and engineering computation happens to be the interface between the mathematical model problem and the real world application One needs to obtain good quality numerical values for any real world implementation Just mathematical quantities symbols are of no use to engineers technologists Computational complexity of the numerical method to solve the mathematical model also computed along with the solution on the other hand will tell us how much computation computational effort has been spent to achieve that quality of result Anyone who wants the specified physical problem to be solved has every right to know the quality of the solution as well as the resources spent for the solution The computed error as well as the complexity provide the scientific convincing answer to these questions Specifically some of the disciplines in which the book will be readily useful are i Computational Mathematics ii Applied Mathematics Computational Engineering Numerical and Computational Physics Simulation and Modelling Operations Research both deterministic and stochastic Computing Methodologies Computer Applications and Numerical Methods in Engineering Key Features Describes precisely ready to use computational error and complexity Includes simple easy to grasp examples wherever necessary Presents error and complexity in error free parallel and probabilistic methods Discusses deterministic and probabilistic methods with error and complexity Points out the scope and limitation of mathematical error bounds Provides a comprehensive up to date bibliography after each chapter Describes precisely ready to use computational error and complexity Includes simple easy to grasp examples wherever necessary Presents error and complexity in error free parallel and probabilistic methods Discusses deterministic and probabilistic methods with error and complexity Points out the scope and limitation of mathematical error bounds Provides a comprehensive up to date bibliography after each chapter

Methods and Applications of Computational Immunology Victor Greiff, Gur Yaari, Johannes Textor, Benny Chain, 2020-01-30

Probabilistic Analysis of Algorithms Micha Hofri, 2012-12-06 Probabilistic Analysis of Algorithms begins with a presentation of the tools of the trade currently used in probabilistic analyses and continues with an applications section in which these tools are used in the analysis of selected algorithms The tools section of the book provides the reader with an arsenal of analytic and numeric computing methods which are then applied to several groups of algorithms to analyze their running time or storage requirements characteristics Topics covered in the applications section include sorting communications network protocols and bin packing While the discussion of the various algorithms is sufficient to motivate their structure the emphasis throughout is on the probabilistic estimation of their operation under distributional assumptions on their input Probabilistic Analysis of Algorithms assumes a working knowledge of engineering

mathematics drawing on real and complex analysis combinatorics and probability theory While the book is intended primarily as a text for the upper undergraduate and graduate student levels it contains a wealth of material and should also prove an important reference for researchers As such it is addressed to computer scientists mathematicians operations researchers and electrical and industrial engineers who are interested in evaluating the probable operation of algorithms rather than their worst case behavior **Computational Mathematics, Modelling and Algorithms** J. C. Misra, 2003 This comprehensive volume introduces educational units dealing with important topics in Mathematics Modelling and Algorithms Key Features Illustrative examples and exercises Comprehensive bibliography **Applicable Algebra, Error-Correcting Codes, Combinatorics and Computer Algebra** Thomas Beth, Michael Clausen, 1988-05-04 This volume contains the proceedings of the 4th International Conference on Applicable Algebra Error Correcting Codes Combinatorics and Computer Algebra AAEC 4 held in Karlsruhe 23-26 September 1986 Selected papers which were given at the conference have been reviewed a second time and are presented here *Computational Science - ICCS 2002* Peter M.A. Sloot, C.J. Kenneth Tan, Jack J. Dongarra, Alfons G. Hoekstra, 2003-08-01 Computational Science is the scientific discipline that aims at the development and understanding of new computational methods and techniques to model and simulate complex systems The area of application includes natural systems such as biology environmental and geo sciences physics and chemistry and synthetic systems such as electronics and financial and economic systems The discipline is a bridge between classical computer science logic complexity architecture algorithms mathematics and the use of computers in the aforementioned areas The relevance for society stems from the numerous challenges that exist in the various science and engineering disciplines which can be tackled by advances made in this field For instance new models and methods to study environmental issues like the quality of air water and soil and weather and climate predictions through simulations as well as the simulation supported development of cars airplanes and medical and transport systems etc Paraphrasing R Kenway R D Kenway Contemporary Physics 1994 There is an important message to scientists politicians and industrialists in the future science the best industrial design and manufacture the greatest medical progress and the most accurate environmental monitoring and forecasting will be done by countries that most rapidly exploit the full potential of computational science Nowadays we have access to high end computer architectures and a large range of computing environments mainly as a consequence of the enormous stimulus from the various international programs on advanced computing e.g. Advances in the Design of Symbolic Computation Systems Alfonso Miola, Marco Temperini, 2012-12-06 New methodological aspects related to design and implementation of symbolic computation systems are considered in this volume aiming at integrating such aspects into a homogeneous software environment for scientific computation The proposed methodology is based on a combination of different techniques algebraic specification through modular approach and completion algorithms approximated and exact algebraic computing methods object oriented programming paradigm automated theorem proving through methods la

Hilbert and methods of natural deduction In particular the proposed treatment of mathematical objects via techniques for method abstraction structures classification and exact representation the programming methodology which supports the design and implementation issues and reasoning capabilities supported by the whole framework are described **From Variability Tolerance to Approximate Computing in Parallel Integrated Architectures and Accelerators** Abbas Rahimi, Luca Benini, Rajesh K. Gupta, 2017-04-23 This book focuses on computing devices and their design at various levels to combat variability The authors provide a review of key concepts with particular emphasis on timing errors caused by various variability sources They discuss methods to predict and prevent detect and correct and finally conditions under which such errors can be accepted they also consider their implications on cost performance and quality Coverage includes a comparative evaluation of methods for deployment across various layers of the system from circuits architecture to application software These can be combined in various ways to achieve specific goals related to observability and controllability of the variability effects providing means to achieve cross layer or hybrid resilience Ubiquitous and Pervasive Computing: Concepts, Methodologies, Tools, and Applications Symonds, Judith, 2009-09-30 This publication covers the latest innovative research findings involved with the incorporation of technologies into everyday aspects of life Provided by publisher Nature-Inspired Computing: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2016-07-26 As technology continues to become more sophisticated mimicking natural processes and phenomena also becomes more of a reality Continued research in the field of natural computing enables an understanding of the world around us in addition to opportunities for man made computing to mirror the natural processes and systems that have existed for centuries Nature Inspired Computing Concepts Methodologies Tools and Applications takes an interdisciplinary approach to the topic of natural computing including emerging technologies being developed for the purpose of simulating natural phenomena applications across industries and the future outlook of biologically and nature inspired technologies Emphasizing critical research in a comprehensive multi volume set this publication is designed for use by IT professionals researchers and graduate students studying intelligent computing **Robust and Error-Free Geometric Computing** Dave Eberly, 2021-02-27 This is a how to book for solving geometric problems robustly or error free in actual practice The contents and accompanying source code are based on the feature requests and feedback received from industry professionals and academics who want both the descriptions and source code for implementations of geometric algorithms The book provides a framework for geometric computing using several arithmetic systems and describes how to select the appropriate system for the problem at hand Key Features A framework of arithmetic systems that can be applied to many geometric algorithms to obtain robust or error free implementations Detailed derivations for algorithms that lead to implementable code Teaching the readers how to use the book concepts in deriving algorithms in their fields of application The Geometric Tools Library a repository of well tested code at the Geometric Tools website <https://www.geometrictools.com>

that implements the book concepts **DNA Computing** Anne Condon,Grzegorz Rozenberg,2003-06-29 The papers in this volume were presented at the 6th International Meeting on DNA Based Computers organized by the Leiden Center for Natural Computing and held from June 13 to June 17 2000 at The Lorentz Center University of Leiden Leiden The Netherlands DNA Computing is a novel and fascinating development at the interface of computer science and molecular biology It has emerged in recent years not simply as an exciting technology for information processing but also as a catalyst for knowledge transfer between information processing nanotechnology and biology This area of research has the potential to change our understanding of the theory and practice of computing The call for papers and poster presentations sought contributions of original research and technical expositions in all areas of bio computation A total of 33 abstracts were submitted of which 16 were accepted for presentation and included in the proceedings The papers were selected by the program committee based on originality and quality of research and on relevance to the bio computing eld Invited talks were given by Masami Hagiya Tokyo University Laura La weber Princeton University John Reif Duke University Thomas Schmidt Leiden University and Lloyd M Smith University of Wisconsin Invited pers based on the talks by Hagiya and Reif are included in this volume along with the contributed papers Additional tutorials were held on the rst and last days of the conference

Error Control, Adaptive Discretizations, and Applications, Part 2 ,2024-10-31 Error Control Adaptive Discretizations and Applications Volume 59 Part Two highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Chapters in this release cover hp adaptive Discontinuous Galerkin strategies driven by a posteriori error estimation with application to aeronautical flow problems An anisotropic mesh adaptation method based on gradient recovery and optimal shape elements and Model reduction techniques for parametrized nonlinear partial differential equations Covers multi scale modeling Includes updates on data driven modeling Presents the latest information on large deformations of multi scale materials **Soft Computing Applications for**

Database Technologies K. Anbumani,R. Nedunchezian,2010-01-01 This book investigates the advent of soft computing and its applications in database technologies Provided by publisher *Computational Science and Its Applications -- ICCSA 2015* Osvaldo Gervasi,Beniamino Murgante,Sanjay Misra,Marina L. Gavrilova,Ana Maria Alves Coutinho Rocha,Carmelo Torre,David Taniar,Bernady O. Apduhan,2015-06-18 The five volume set LNCS 9155 9159 constitutes the refereed proceedings of the 15th International Conference on Computational Science and Its Applications ICCSA 2015 held in Banff AB Canada in June 2015 The 232 revised full papers presented in 22 workshops and a general track were carefully reviewed and selected from 780 initial submissions for inclusion in this volume They cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security Computational Science and Its Applications - ICCSA 2021 Osvaldo Gervasi,Beniamino Murgante,Sanjay Misra,Chiara Garau,Ivan Blečić,David Taniar,Bernady O. Apduhan,Ana Maria A.C. Rocha,Eufemia Tarantino,Carmelo Maria

Torre, 2021-09-10 The ten volume set LNCS 12949 12958 constitutes the proceedings of the 21st International Conference on Computational Science and Its Applications ICCSA 2021 which was held in Cagliari Italy during September 13 16 2021 The event was organized in a hybrid mode due to the Covid 19 pandemic The 466 full and 18 short papers presented in these proceedings were carefully reviewed and selected from 1588 submissions The books cover such topics as multicore architectures mobile and wireless security sensor networks open source software collaborative and social computing systems and tools cryptography human computer interaction software design engineering and others Part II of the set follows two general tracks geometric modeling graphics and visualization advanced and emerging applications Further sections include the proceedings of the workshops International Workshop on Advanced Transport Tools and Methods A2TM 2021 International Workshop on Advances in Artificial Intelligence Learning Technologies Blended Learning STEM Computational Thinking and Coding AAILT 2021 International Workshop on Advancements in Applied Machine learning and Data Analytics AAMDA 2021 At the end of the book there is a block of short papers The chapter Spatial justice models an exploratory analysis on fair distribution of opportunities is published open access under a CC BY license Creative Commons Attribution 4 0 International License div **Computational Techniques And Applications: Ctac 95 - Proceedings Of The Seventh Biennial Conference** Robert L May, Alan K Easton, 1996-08-30 This proceedings contains seven invited papers and 100 contributed papers The topics covered range from studies of theoretical aspects of computational methods through to simulations of large scale industrial processes with an emphasis on the efficient use of computers to solve practical problems Developers and users of computational techniques who wish to keep up with recent developments in the application of modern computational technology to problems in science and engineering will find much of interest in this volume

The book delves into Methods Applications Of Error Free Computation. Methods Applications Of Error Free Computation is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Methods Applications Of Error Free Computation, encompassing both the fundamentals and more intricate discussions.

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