Computer Science and Applied Mathematics

# SOFTWARE FOR ROUNDOFF ANALYSIS OF MATRIX ALGORITHMS

Webb Miller / Celia Wrathall

# **Software For Roundoff Analysis Of Matrix Algorithms Celia Wrathall**

**Gary Edward Adams** 

#### **Software For Roundoff Analysis Of Matrix Algorithms Celia Wrathall:**

Software for Roundoff Analysis of Matrix Algorithms Webb Miller, Celia Wrathall, 2014-05-10 Computer Science and Applied Mathematics A Series of Monographs and Textbooks Software for Roundoff Analysis of Matrix Algorithms focuses on the presentation of techniques and software tools for analyzing the propagation of rounding error in matrix algorithms The publication looks into some elements of error analysis concepts from linear algebra and analysis and directed graphs Discussions focus on arithmetic graphs sums of path products linear transformations Minkowski sums and Cartesian products and elementary concepts from analysis The text then examines software for roundoff analysis including rounding and perturbations of the computational problem comparing rounding errors with problem sensitivity reverse condition numbers and comparing two algorithms The book ponders on case studies as well as Gaussian elimination with iterative improvement Cholesky factorization Gauss Jordan elimination variants of the Gram Schmidt method and Cholesky factors after rank one modifications. The text is a valuable reference for researchers interested in the techniques and software tools involved in the analysis of the propagation of rounding error in matrix algorithms The Theory of Matrices Peter Lancaster, Miron Tismenetsky, 1985-05-24 In this book the authors try to bridge the gap between the treatments of matrix theory and linear algebra It is aimed at graduate and advanced undergraduate students seeking a foundation in mathematics computer science or engineering It will also be useful as a reference book for those working on matrices and linear algebra for use in their scientific work Accuracy and Stability of Numerical Algorithms Nicholas J. Higham, 2002-01-01 Accuracy and Stability of Numerical Algorithms gives a thorough up to date treatment of the behavior of numerical algorithms in finite precision arithmetic It combines algorithmic derivations perturbation theory and rounding error analysis all enlivened by historical perspective and informative quotations This second edition expands and updates the coverage of the first edition 1996 and includes numerous improvements to the original material Two new chapters treat symmetric indefinite systems and skew symmetric systems and nonlinear systems and Newton's method Twelve new sections include coverage of additional error bounds for Gaussian elimination rank revealing LU factorizations weighted and constrained least squares problems and the fused multiply add operation found on some modern computer architectures **Precision-based Program Optimization** Gary Edward Adams, 2000 Algorithm-Structured Computer Arrays and Networks Leonard Uhr, 2014-05-10 Computer Science and Applied Mathematics Algorithm Structured Computer Arrays and Networks Architectures and Processes for Images Percepts Models Information examines the parallel array pipeline and other network multi computers This book describes and explores arrays and networks those built being designed or proposed The problems of developing higher level languages for systems and designing algorithm program data flow and computer structure are also discussed This text likewise describes several sequences of successively more general attempts to combine the power of arrays with the flexibility of networks into structures that reflect and embody the flow of information through their

processors This publication is useful as a textbook or auxiliary textbook for students taking courses on computer architecture parallel computers arrays and networks and image processing and pattern recognition **Mathematical Methods for** Wave Phenomena Norman Bleistein, 2012-12-02 Computer Science and Applied Mathematics Mathematical Methods for Wave Phenomena focuses on the methods of applied mathematics including equations wave fronts boundary value problems and scattering problems The publication initially ponders on first order partial differential equations Dirac delta function Fourier transforms asymptotics and second order partial differential equations Discussions focus on prototype second order equations asymptotic expansions asymptotic expansions of Fourier integrals with monotonic phase method of stationary phase propagation of wave fronts and variable index of refraction The text then examines wave equation in one space dimension as well as initial boundary value problems characteristics for the wave equation in one space dimension and asymptotic solution of the Klein Gordon equation The manuscript offers information on wave equation in two and three dimensions and Helmholtz equation and other elliptic equations Topics include energy integral domain of dependence and uniqueness scattering problems Green's functions and problems in unbounded domains and the Sommerfeld radiation condition The asymptotic techniques for direct scattering problems and the inverse methods for reflector imaging are also elaborated The text is a dependable reference for computer science experts and mathematicians pursuing studies on the mathematical methods of wave phenomena **Reviews in Numerical Analysis, 1980-86**, 1987 These five volumes bring together a wealth of bibliographic information in the area of numerical analysis Containing over 17 600 reviews of articles books and conference proceedings these volumes represent all the numerical analysis entries that appeared in Mathematical Reviews between 1980 and 1986 Author and key indexes appear at the end of volume 5 **Computer Arithmetic in** Theory and Practice Ulrich W. Kulisch, Willard L. Miranker, 2014-05-12 Computer Arithmetic in Theory and Practice deals with computer arithmetic and the various implementations of the entire arithmetic package on diverse processors including microprocessors It illustrates the importance of theoretical development in the sound implementation of arithmetic on computers and argues that such an implementation requires the establishment of various isomorphisms between different definitions of arithmetic operations Comprised of seven chapters this volume begins with an introduction to the theory of computer arithmetic by giving an axiomatic characterization of the essential properties of sets and subsets complete lattices and complete subnets screens and roundings and arithmetic operations. The discussion then turns to the concepts of a ringoid and a vectoid as well as those of ordered or weakly ordered ringoids and vectoids interval arithmetic and floating point arithmetic The operations in interval spaces are defined by means of semimorphisms The final chapter shows how to embed the five basic data types integer real complex real interval and complex interval together with the arithmetic operations that are defined for all of these types into existing higher programming languages. This book will be helpful to students and practitioners in the fields of computer science and applied mathematics **Finite Element Solution of Boundary Value** 

Problems O. Axelsson, V. A. Barker, 2014-05-10 Finite Element Solution of Boundary Value Problems Theory and Computation provides an introduction to both the theoretical and computational aspects of the finite element method for solving boundary value problems for partial differential equations This book is composed of seven chapters and begins with surveys of the two kinds of preconditioning techniques one based on the symmetric successive overrelaxation iterative method for solving a system of equations and a form of incomplete factorization The subsequent chapters deal with the concepts from functional analysis of boundary value problems These topics are followed by discussions of the Ritz method which minimizes the quadratic functional associated with a given boundary value problem over some finite dimensional subspace of the original space of functions Other chapters are devoted to direct methods including Gaussian elimination and related methods for solving a system of linear algebraic equations The final chapter continues the analysis of preconditioned conjugate gradient methods concentrating on applications to finite element problems This chapter also looks into the techniques for reducing rounding errors in the iterative solution of finite element equations This book will be of value to advanced undergraduates and graduates in the areas of numerical analysis mathematics and computer science as well as for theoretically inclined workers in engineering and the physical sciences

The Engineering of Numerical Software Webb Miller, 1984

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