

Scientific Computation on Mathematical Problems and Conjectures

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Scientific Computation On Mathematical Problems And Conjectures

Nicholas J. Higham



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Scientific Computation on Mathematical Problems and Conjectures Richard S. Varga, 1990-01-01 Studies the use of scientific computation as a tool in attacking a number of mathematical problems and conjectures In this case scientific computation refers primarily to computations that are carried out with a large number of significant digits for calculations associated with a variety of numerical techniques such as the second Remez algorithm in polynomial and rational approximation theory Richardson extrapolation of sequences of numbers the accurate finding of zeros of polynomials of large degree and the numerical approximation of integrals by quadrature techniques The goal of this book is not to delve into the specialized field dealing with the creation of robust and reliable software needed to implement these high precision calculations but rather to emphasize the enormous power that existing software brings to the mathematician's arsenal of weapons for attacking mathematical problems and conjectures *Scientific Computation on Mathematical Problems and Conjectures* includes studies of the Bernstein Conjecture of 1913 in polynomial approximation theory the 1/9 Conjecture of 1977 in rational approximation theory the famous Riemann Hypothesis of 1859 and the Polya Conjecture of 1927 The emphasis of this monograph rests strongly on the interplay between hard analysis and high precision calculations

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

[Numerical Analysis](#) Walter Gautschi, 2011-12-06 Revised and updated this second edition of Walter Gautschi's successful *Numerical Analysis* explores

computational methods for problems arising in the areas of classical analysis approximation theory and ordinary differential equations among others Topics included in the book are presented with a view toward stressing basic principles and maintaining simplicity and teachability as far as possible while subjects requiring a higher level of technicality are referenced in detailed bibliographic notes at the end of each chapter Readers are thus given the guidance and opportunity to pursue advanced modern topics in more depth Along with updated references new biographical notes and enhanced notational clarity this second edition includes the expansion of an already large collection of exercises and assignments both the kind that deal with theoretical and practical aspects of the subject and those requiring machine computation and the use of mathematical software Perhaps most notably the edition also comes with a complete solutions manual carefully developed and polished by the author which will serve as an exceptionally valuable resource for instructors

The Mathematica GuideBook for Symbolics Michael Trott, 2007-04-03 Mathematica is today's most advanced technical computing system It features a rich programming environment two and three dimensional graphics capabilities and hundreds of sophisticated powerful programming and mathematical functions using state of the art algorithms Combined with a user friendly interface and a complete mathematical typesetting system Mathematica offers an intuitive easy to handle environment of great power and utility The Mathematica GuideBook for Symbolics code and text fully tailored for Mathematica 5.1 deals with Mathematica's symbolic mathematical capabilities Structural and mathematical operations on single and systems of polynomials are fundamental to many symbolic calculations and they are covered in considerable detail The solution of equations and differential equations as well as the classical calculus operations differentiation integration summation series expansion limits are exhaustively treated Generalized functions and their uses are discussed In addition this volume discusses and employs the classical orthogonal polynomials and special functions of mathematical physics To demonstrate the symbolic mathematics power a large variety of problems from mathematics and physics are discussed

Mathematical Constants Steven R. Finch, 2003-08-18 Steven Finch provides 136 essays each devoted to a mathematical constant or a class of constants from the well known to the highly exotic This book is helpful both to readers seeking information about a specific constant and to readers who desire a panoramic view of all constants coming from a particular field for example combinatorial enumeration or geometric optimization Unsolved problems appear virtually everywhere as well This work represents an outstanding scholarly attempt to bring together all significant mathematical constants in one place

On a Class of Incomplete Gamma Functions with Applications M. Aslam Chaudhry, Syed M. Zubair, 2001-08-21 The subject of special functions is rich and expanding continuously with the emergence of new problems encountered in engineering and applied science applications The development of computational techniques and the rapid growth in computing power have increased the importance of the special functions and their formulae for analytic representations

Variational Methods for the Numerical Solution of Nonlinear Elliptic Problem Roland Glowinski, 2015-11-04 Variational Methods for the

Numerical Solution of Nonlinear Elliptic Problems addresses computational methods that have proven efficient for the solution of a large variety of nonlinear elliptic problems. These methods can be applied to many problems in science and engineering but this book focuses on their application to problems in continuum mechanics and physics. This book differs from others on the topic by presenting examples of the power and versatility of operator splitting methods providing a detailed introduction to alternating direction methods of multipliers and their applicability to the solution of nonlinear possibly nonsmooth problems from science and engineering and showing that nonlinear least squares methods combined with operator splitting and conjugate gradient algorithms provide efficient tools for the solution of highly nonlinear problems. The book provides useful insights suitable for advanced graduate students, faculty and researchers in applied and computational mathematics as well as research engineers, mathematical physicists and systems engineers.

Methods of Approximation Theory in Complex Analysis and Mathematical Physics Andrei A. Gonchar, Edward B. Saff, 2008-01-03

The book incorporates research papers and surveys written by participants of an International Scientific Programme on Approximation Theory jointly supervised by Institute for Constructive Mathematics of University of South Florida at Tampa USA and the Euler International Mathematical Institute at St Petersburg, Russia. The aim of the Programme was to present new developments in Constructive Approximation Theory. The topics of the papers are asymptotic behaviour of orthogonal polynomials, rational approximation of classical functions, quadrature formulas, theory of n -widths, nonlinear approximation in Hardy algebras, numerical results on best polynomial approximations, wavelet analysis.

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Time Parallel Time Integration Martin J. Gander, Thibaut Lunet, 2024-10-15 Predicting the future is a difficult task but as with the weather it is possible with good models. But how does one predict the far future before the near future is known? Time parallel time integration, also known as PinT, Parallel in Time methods aims to predict the near and far future simultaneously. In this self-contained book, the first on the topic, readers will find a comprehensive and up-to-date description of methods and techniques that have been developed to do just this. The authors describe the four main classes of PinT methods: shooting type methods, waveform relaxation methods, time parallel multigrid methods, and direct time parallel methods. In addition, they provide historical background for each of the method classes, complete convergence analyses for

the most representative variants of the methods in each class and illustrations and runnable MATLAB code An ideal introduction to this exciting and very active research field Time Parallel Time Integration can be used for independent study or for a graduate course

Inverse Scattering Theory and Transmission Eigenvalues Fioralba Cakoni, David Colton, Houssem Haddar, 2022-12-07 Inverse scattering theory is a major theme in applied mathematics with applications to such diverse areas as medical imaging geophysical exploration and nondestructive testing The inverse scattering problem is both nonlinear and ill posed thus presenting challenges in the development of efficient inversion algorithms A further complication is that anisotropic materials cannot be uniquely determined from given scattering data In the first edition of Inverse Scattering Theory and Transmission Eigenvalues the authors discussed methods for determining the support of inhomogeneous media from measured far field data and the role of transmission eigenvalue problems in the mathematical development of these methods In this second edition three new chapters describe recent developments in inverse scattering theory In particular the authors explore the use of modified background media in the nondestructive testing of materials and methods for determining the modified transmission eigenvalues that arise in such applications from measured far field data They also examine nonscattering wave numbers a subset of transmission eigenvalues using techniques taken from the theory of free boundary value problems for elliptic partial differential equations and discuss the dualism of scattering poles and transmission eigenvalues that has led to new methods for the numerical computation of scattering poles This book will be of interest to research mathematicians and engineers and physicists working on problems in target identification It will also be useful to advanced graduate students in many areas of applied mathematics

Integrable Systems and Random Matrices Jinho Baik, 2008 This volume contains the proceedings of a conference held at the Courant Institute in 2006 to celebrate the 60th birthday of Percy A Deift The program reflected the wide ranging contributions of Professor Deift to analysis with emphasis on recent developments in Random Matrix Theory and integrable systems The articles in this volume present a broad view on the state of the art in these fields Topics on random matrices include the distributions and stochastic processes associated with local eigenvalue statistics as well as their appearance in combinatorial models such as TASEP last passage percolation and tilings The contributions in integrable systems mostly deal with focusing NLS the Camassa Holm equation and the Toda lattice A number of papers are devoted to techniques that are used in both fields These techniques are related to orthogonal polynomials operator determinants special functions Riemann Hilbert problems direct and inverse spectral theory Of special interest is the article of Percy Deift in which he discusses some open problems of Random Matrix Theory and the theory of integrable systems

The Cahn-Hilliard Equation: Recent Advances and Applications Alain Miranville, 2019-09-09 This is the first book to present a detailed discussion of both classical and recent results on the popular Cahn Hilliard equation and some of its variants The focus is on mathematical analysis of Cahn Hilliard models with an emphasis on thermodynamically relevant logarithmic nonlinear terms for which several questions are still open Initially

proposed in view of applications to materials science the Cahn Hilliard equation is now applied in many other areas including image processing biology ecology astronomy and chemistry In particular the author addresses applications to image inpainting and tumor growth Many chapters include open problems and directions for future research The Cahn Hilliard Equation Recent Advances and Applications is intended for graduate students and researchers in applied mathematics especially those interested in phase separation models and their generalizations and applications to other fields Materials scientists also will find this text of interest

Fast Direct Solvers for Elliptic PDEs Per-Gunnar Martinsson, 2019-12-16 Fast solvers for elliptic PDEs form a pillar of scientific computing They enable detailed and accurate simulations of electromagnetic fields fluid flows biochemical processes and much more This textbook provides an introduction to fast solvers from the point of view of integral equation formulations which lead to unparalleled accuracy and speed in many applications The focus is on fast algorithms for handling dense matrices that arise in the discretization of integral operators such as the fast multipole method and fast direct solvers While the emphasis is on techniques for dense matrices the text also describes how similar techniques give rise to linear complexity algorithms for computing the inverse or the LU factorization of a sparse matrix resulting from the direct discretization of an elliptic PDE This is the first textbook to detail the active field of fast direct solvers introducing readers to modern linear algebraic techniques for accelerating computations such as randomized algorithms interpolative decompositions and data sparse hierarchical matrix representations Written with an emphasis on mathematical intuition rather than theoretical details it is richly illustrated and provides pseudocode for all key techniques Fast Direct Solvers for Elliptic PDEs is appropriate for graduate students in applied mathematics and scientific computing engineers and scientists looking for an accessible introduction to integral equation methods and fast solvers and researchers in computational mathematics who want to quickly catch up on recent advances in randomized algorithms and techniques for working with data sparse matrices

Handbook of Sinc Numerical Methods Frank Stenger, 2016-04-19 Handbook of Sinc Numerical Methods presents an ideal road map for handling general numeric problems Reflecting the author's advances with Sinc since 1995 the text most notably provides a detailed exposition of the Sinc separation of variables method for numerically solving the full range of partial differential equations PDEs of interest to scientists and engineers This new theory which combines Sinc convolution with the boundary integral equation IE approach makes for exponentially faster convergence to solutions of differential equations The basis for the approach is the Sinc method of approximating almost every type of operation stemming from calculus via easily computed matrices of very low dimension The downloadable resources of this handbook contain roughly 450 MATLAB programs corresponding to exponentially convergent numerical algorithms for solving nearly every computational problem of science and engineering While the book makes Sinc methods accessible to users wanting to bypass the complete theory it also offers sufficient theoretical details for readers who do want a full working understanding of this exciting area of numerical analysis

Polynomials and Polynomial

Inequalities Peter Borwein, Tamas Erdelyi, 2012-12-06 Polynomials pervade mathematics virtually every branch of mathematics from algebraic number theory and algebraic geometry to applied analysis and computer science has a corpus of theory arising from polynomials The material explored in this book primarily concerns polynomials as they arise in analysis it focuses on polynomials and rational functions of a single variable The book is self contained and assumes at most a senior undergraduate familiarity with real and complex analysis After an introduction to the geometry of polynomials and a discussion of refinements of the Fundamental Theorem of Algebra the book turns to a consideration of various special polynomials Chebyshev and Descartes systems are then introduced and Müntz systems and rational systems are examined in detail Subsequent chapters discuss denseness questions and the inequalities satisfied by polynomials and rational functions Appendices on algorithms and computational concerns on the interpolation theorem and on orthogonality and irrationality conclude the book

Applied Asymptotic Analysis Peter David Miller, 2006 This book is a survey of asymptotic methods set in the current applied research context of wave propagation It stresses rigorous analysis in addition to formal manipulations Asymptotic expansions developed in the text are justified rigorously and students are shown how to obtain solid error estimates for asymptotic formulae The book relates examples and exercises to subjects of current research interest such as the problem of locating the zeros of Taylor polynomials of entire nonvanishing functions and the problem of counting integer lattice points in subsets of the plane with various geometrical properties of the boundary The book is intended for a beginning graduate course on asymptotic analysis in applied mathematics and is aimed at students of pure and applied mathematics as well as science and engineering The basic prerequisite is a background in differential equations linear algebra advanced calculus and complex variables at the level of introductory undergraduate courses on these subjects The book is ideally suited to the needs of a graduate student who on the one hand wants to learn basic applied mathematics and on the other wants to understand what is needed to make the various arguments rigorous Down here in the Village this is known as the Courant point of view Percy Deift Courant Institute New York Peter D Miller is an associate professor of mathematics at the University of Michigan at Ann Arbor He earned a Ph D in Applied Mathematics from the University of Arizona and has held positions at the Australian National University Canberra and Monash University Melbourne His current research interests lie in singular limits for integrable systems

Fourier Analysis William O. Bray, 2020-12-17 Providing complete expository and research papers on the geometric and analytic aspects of Fourier analysis this work discusses new approaches to classical problems in the theory of trigonometric series singular integrals pseudo differential operators Fourier analysis on various groups numerical aspects of Fourier analysis and their applications wavelets and more

Ten Lectures on the Probabilistic Method Joel Spencer, 1994-01-01 This update of the 1987 title of the same name is an examination of what is currently known about the probabilistic method written by one of its principal developers Based on the notes from Spencer's 1986 series of ten lectures this new edition contains an additional lecture The Janson Inequalities These

inequalities allow accurate approximation of extremely small probabilities A new algorithmic approach to the Lovasz Local Lemma attributed to Jozsef Beck has been added to Lecture 8 as well **Multivariate Splines** Charles K. Chui, 1988-01-01
Subject of multivariate splines presented from an elementary point of view includes many open problems

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