



Numerical treatment of some fractional nonlinear equations by Elzaki transform

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Numerical Treatment Of A Single Nonlinea

Peter Borwein, Tamas Erdelyi



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The Numerical Treatment of a Single Nonlinear Equation Alston Scott Householder, 1970 *The Numerical Treatment of a Single Nonlinear Equation* Paul H. Glasser, 1970 *Numerical Methods for Roots of Polynomials - Part II* J.M. McNamee, V.Y. Pan, 2013-07-19 This chapter treats several topics starting with Bernoulli's method This method iteratively solves a linear difference equation whose coefficients are the same as those of the polynomial The ratios of successive iterates tends to the root of largest magnitude Special versions are used for complex and or multiple roots The iteration may be accelerated and Aitken's variation finds all the roots simultaneously The Quotient Difference algorithm uses two sequences with a similar one for Then if the roots are well separated Special techniques are used for roots of equal modulus The Lehmer Schur method uses a test to determine whether a given circle contains a root or not Using this test we find an annulus which contains a root whereas the circle does not We cover the annulus with 8 smaller circles and test which one contains the roots We repeat the process until a sufficiently small circle is known to contain the root We also consider methods using integration such as by Delves Lyness and Kravanja et al

Homotopy-Based Methods in Water Engineering Manotosh Kumbhakar, Vijay P. Singh, 2023-07-20 Most complex physical phenomena can be described by nonlinear equations specifically differential equations In water engineering nonlinear differential equations play a vital role in modeling physical processes Analytical solutions to strong nonlinear problems are not easily tractable and existing techniques are problem specific and applicable for specific types of equations Exploring the concept of homotopy from topology different kinds of homotopy based methods have been proposed for analytically solving nonlinear differential equations given by approximate series solutions Homotopy Based Methods in Water Engineering attempts to present the wide applicability of these methods to water engineering problems It solves all kinds of nonlinear equations namely algebraic transcendental equations ordinary differential equations ODEs systems of ODEs partial differential equations PDEs systems of PDEs and integro differential equations using the homotopy based methods The content of the book deals with some selected problems of hydraulics of open channel flow with or without sediment transport groundwater hydrology surface water hydrology general Burger's equation and water quality Features Provides analytical treatments to some key problems in water engineering Describes the applicability of homotopy based methods for solving nonlinear equations particularly differential equations Compares different approaches in dealing with issues of nonlinearity

KWIC Index for Numerical Algebra Alston Scott Householder, 1972 *Approximation Techniques for Engineers* Louis Komzsik, 2006-07-20 Presenting numerous examples algorithms and industrial applications Approximation Techniques for Engineers is your complete guide to the major techniques used in modern engineering practice Whether you need approximations for discrete data of continuous functions or you're looking for approximate solutions to engineering problems everything you need is nestled between the covers of this book Now you can benefit from Louis Komzsik's years of industrial experience to gain a working

knowledge of a vast array of approximation techniques through this complete and self contained resource

Introduction to Numerical Computations James S. Vandergraft, 2014-05-10 Computer Science and Applied Mathematics Introduction to Numerical Computations Second Edition introduces numerical algorithms as they are used in practice This edition covers the usual topics contained in introductory numerical analysis textbooks that include all of the well known and most frequently used algorithms for interpolation and approximation numerical differentiation and integration solution of linear systems and nonlinear equations and solving ordinary differential equations A complete discussion of computer arithmetic problems that arise in the computer evaluation of functions and cubic spline interpolation are also provided This text likewise discusses the Newton formulas for interpolation and adaptive methods for integration The level of this book is suitable for advanced undergraduate students and readers with elementary mathematical background

Using the Mathematics Literature Kristine K. Fowler, 2004-05-25 This reference serves as a reader friendly guide to every basic tool and skill required in the mathematical library and helps mathematicians find resources in any format in the mathematics literature It lists a wide range of standard texts journals review articles newsgroups and Internet and database tools for every major subfield in mathematics and details methods of access to primary literature sources of new research applications results and techniques Using the Mathematics Literature is the most comprehensive and up to date resource on mathematics literature in both print and electronic formats presenting time saving strategies for retrieval of the latest information

Algorithms for Minimization Without Derivatives Richard P. Brent, 2002-01-01 This outstanding text for graduate students and researchers proposes improvements to existing algorithms extends their related mathematical theories and offers details on new algorithms for approximating local and global minima None of the algorithms requires an evaluation of derivatives all depend entirely on sequential function evaluation a highly practical scenario in the frequent event of difficult to evaluate derivatives Topics include the use of successive interpolation for finding simple zeros of a function and its derivatives an algorithm with guaranteed convergence for finding a minimum of a function of one variation global minimization given an upper bound on the second derivative and a new algorithm for minimizing a function of several variables without calculating derivatives Many numerical examples augment the text along with a complete analysis of rate of convergence for most algorithms and error bounds that allow for the effect of rounding errors

Numerical Recipes in FORTRAN 77: Volume 1, Volume 1 of Fortran Numerical Recipes William H. Press, Saul A. Teukolsky, Brian P. Flannery, William T. Vetterling, 1992-09-25 As with Numerical Recipes in C the FORTRAN edition has been greatly revised to make this edition the most up to date handbook for those working with FORTRAN Between both editions of Numerical Recipes over 300 000 copies have been sold

Unusual Applications of Number Theory Melvyn Bernard Nathanson, 2004 This volume contains the proceedings of the workshop held at the DIMACS Center of Rutgers University Piscataway NJ on Unusual Applications of Number Theory Standard applications of number theory are to computer science and cryptology In this volume well known

number theorist Melvyn B Nathanson gathers articles from the workshop on other less standard applications in number theory as well as topics in number theory with potential applications in science and engineering The material is suitable for graduate students and researchers interested in number theory and its applications *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 M ntz 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 *Computational Methods for Geodynamics* Alik Ismail-Zadeh,Paul Tackley,2010-07-22 Written as both a textbook and a handy reference this text deliberately avoids complex mathematics assuming only basic familiarity with geodynamic theory and calculus Here the authors have brought together the key numerical techniques for geodynamic modeling demonstrations of how to solve problems including lithospheric deformation mantle convection and the geodynamo Building from a discussion of the fundamental principles of mathematical and numerical modeling the text moves into critical examinations of each of the different techniques before concluding with a detailed analysis of specific geodynamic applications Key differences between methods and their respective limitations are also discussed showing readers when and how to apply a particular method in order to produce the most accurate results This is an essential text for advanced courses on numerical and computational modeling in geodynamics and geophysics and an invaluable resource for researchers looking to master cutting edge techniques Links to supplementary computer codes are available online *Handbook of Conformal Mappings and Applications* Prem K. Kythe,2019-03-04 The subject of conformal mappings is a major part of geometric function theory that gained prominence after the publication of the Riemann mapping theorem for every simply connected domain of the extended complex plane there is a univalent and meromorphic function that maps such a domain conformally onto the unit disk The Handbook of Conformal Mappings and Applications is a compendium of at least all known conformal maps to date with diagrams and description and all possible applications in different scientific disciplines such as fluid flows heat transfer acoustics electromagnetic fields as static fields in electricity and magnetism various mathematical models and methods including solutions of certain integral equations **Introduction to Interval Computation** Gotz Alefeld,Jurgen Herzberger,2012-12-02 This book is revised and expanded version of the original German text The arrangement of the

material and the structure are essentially unchanged All remarks in the Preface to the German Edition regarding naming conventions for formulas theorems lemmas and definitions are still valid as are those concerning the arrangement and choice of material

Brick and Block Masonry Claudio Modena,F. da Porto,M.R. Valluzzi,2016-11-03 Brick and Block Masonry Trends Innovations and Challenges contains the lectures and regular papers presented at the 16th International Brick and Block Masonry Conference Padova Italy 26 30 June 2016 The contributions cover major topics Analysis of masonry structures Bond of composites to masonry Building physics and durability Case studies Codes and standards Conservation of historic buildings Earthen constructions Eco materials and sustainability Fire resistance blasts and impacts Masonry bridges arches and vaults Masonry infill walls and RC frames Masonry materials and testing Masonry repair and strengthening New construction techniques and technologies Reinforced and confined masonry Seismic performance and vulnerability assessment In an ever changing world in which innovations are rapidly implemented but soon surpassed the challenge for masonry the oldest and most traditional building material is that it can address the increasingly pressing requirements of quality of living safety and sustainability This abstracts volume and full paper USB device focusing on challenges innovations trends and ideas related to masonry in both research and building practice will prove to be a valuable source of information for researchers and practitioners masonry industries and building management authorities construction professionals and educators

Scientific Computing Michael T. Heath,2018-11-14 This book differs from traditional numerical analysis texts in that it focuses on the motivation and ideas behind the algorithms presented rather than on detailed analyses of them It presents a broad overview of methods and software for solving mathematical problems arising in computational modeling and data analysis including proper problem formulation selection of effective solution algorithms and interpretation of results In the 20 years since its original publication the modern fundamental perspective of this book has aged well and it continues to be used in the classroom This Classics edition has been updated to include pointers to Python software and the Chebfun package expansions on barycentric formulation for Lagrange polynomial interpolation and stochastic methods and the availability of about 100 interactive educational modules that dynamically illustrate the concepts and algorithms in the book *Scientific Computing An Introductory Survey* Second Edition is intended as both a textbook and a reference for computationally oriented disciplines that need to solve mathematical problems

Algorithms and Theory of Computation Handbook Mikhail J. Atallah,1998-11-23 *Algorithms and Theory of Computation Handbook* is a comprehensive collection of algorithms and data structures that also covers many theoretical issues It offers a balanced perspective that reflects the needs of practitioners including emphasis on applications within discussions on theoretical issues Chapters include information on finite precision issues as well as discussion of specific algorithms where algorithmic techniques are of special importance including graph drawing robotics forming a VLSI chip vision and image processing data compression and cryptography The book also presents some advanced topics in combinatorial optimization and parallel

distributed computing applications areas where algorithms and data structuring techniques are of special importance graph drawing robot algorithms VLSI layout vision and image processing algorithms scheduling electronic cash data compression dynamic graph algorithms on line algorithms multidimensional data structures cryptography advanced topics in combinatorial optimization and parallel distributed computing **Mathematical Systems Theory I** Diederich

Hinrichsen,Anthony J. Pritchard,2011-08-03 This book presents the mathematical foundations of systems theory in a self contained comprehensive detailed and mathematically rigorous way It is devoted to the analysis of dynamical systems and combines features of a detailed introductory textbook with that of a reference source The book contains many examples and figures illustrating the text which help to bring out the intuitive ideas behind the mathematical constructions *C++ Toolkit for Engineers and Scientists* James T. Smith,2013-03-09 This book describes the design construction and use of a numerical analysis software toolkit It s written in C Version 2 0 and makes essential use of that language s Object Oriented Programming OOP features Its development environment is the Borland International Inc Borland C compiler Version 5 02 for IBM compatible personal computers However the book describes few features specific to that product The toolkit and its description and background discussions cover the most fundamental aspects of numerical analysis At the core of most scientific or engineering application programs are some of the concepts and techniques presented here The most basic include details of computation with floating point real and complex numbers mathematical functions in the C Library and a general OOP framework for vector polynomial and matrix algebra On this foundation routines are constructed for solving nonlinear equations linear and nonlinear systems of equations and eigenvalue problems The book is heavily weighted toward software development What s new here is the emphasis on software tools and on OOP techniques for handling vectors polynomials and matrices Rather than describing programs implementing specific numerical techniques to solve specific applica tion problems the book constructs reusable tools with which you can implement many techniques for solving broad classes of problems Examples are included to demonstrate their use The tools are organized into layers The deepest is formed by the C library functions for computing with real and complex numbers A list of errata can be found on the author s personal webpage

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