



$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

Numerical solutions of equations

You can solve equations of the form $f(x) = 0$ using the Newton-Raphson process

Use the Newton-Raphson process to find the root of the equation:

$$x^4 + x^2 = 80$$

Use $x_0 = 3$ and give your answer to 2 decimal places.

$$f(x) = x^4 + x^2 - 80$$

$$f'(x) = 4x^3 + 2x$$

$$x_0 = 3$$

$$x_1 = 2.912$$

$$x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

$$x_1 = x_0 - \frac{(x_0)^4 + (x_0)^2 - 80}{4(x_0)^3 + 2(x_0)}$$

$$x_1 = 3 - \frac{(3)^4 + (3)^2 - 80}{4(3)^3 + 2(3)}$$

$$x_1 = 2.912$$

Our current approximation is x_0 . replace the fraction with equivalent expressions

Sub in $x_0 = 3$

Calculate

Numerical Solution Of Algebraic Equations

PT Brinkman



Numerical Solution Of Algebraic Equations:

Differential-algebraic Equations Peter Kunkel, 2006 Differential algebraic equations are a widely accepted tool for the modeling and simulation of constrained dynamical systems in numerous applications such as mechanical multibody systems electrical circuit simulation chemical engineering control theory fluid dynamics and many others This is the first comprehensive textbook that provides a systematic and detailed analysis of initial and boundary value problems for differential algebraic equations The analysis is developed from the theory of linear constant coefficient systems via linear variable coefficient systems to general nonlinear systems Further sections on control problems generalized inverses of differential algebraic operators generalized solutions and differential equations on manifolds complement the theoretical treatment of initial value problems Two major classes of numerical methods for differential algebraic equations Runge Kutta and BDF methods are discussed and analyzed with respect to convergence and order A chapter is devoted to index reduction methods that allow the numerical treatment of general differential algebraic equations The analysis and numerical solution of boundary value problems for differential algebraic equations is presented including multiple shooting and collocation methods A survey of current software packages for differential algebraic equations completes the text The book is addressed to graduate students and researchers in mathematics engineering and sciences as well as practitioners in industry A prerequisite is a standard course on the numerical solution of ordinary differential equations Numerous examples and exercises make the book suitable as a course textbook or for self study

Handbook of Numerical Methods for the Solution of Algebraic and Transcendental Equations V. L. Zaguskin, 2014-05-12 Handbook of Numerical Methods for the Solution of Algebraic and Transcendental Equations provides information pertinent to algebraic and transcendental equations This book indicates a well grounded plan for the solution of an approximate equation Organized into six chapters this book begins with an overview of the solution of various equations This text then outlines a non traditional theory of the solution of approximate equations Other chapters consider the approximate methods for the calculation of roots of algebraic equations This book discusses as well the methods for making roots more accurate which are essential in the practical application of Berstois method The final chapter deals with the methods for the solution of simultaneous linear equations which are divided into direct methods and methods of successive approximation This book is a valuable resource for students engineers and research workers of institutes and industrial enterprises who are using mathematical methods in the solution of technical problems

The Numerical Solution of Algebraic Equations R. A. Wait, 1979 *Numerical Solution of Initial-Value Problems in Differential-Algebraic Equations* K. E. Brenan, S. L. Campbell, L. R. Petzold, 1996-01-01 This book describes some of the places where differential algebraic equations DAE s occur *The Numerical Solution of Differential-Algebraic Systems by Runge-Kutta Methods* Ernst Hairer, Christian Lubich, Michel Roche, 2006-11-14 The term differential algebraic equation was coined to comprise differential equations with constraints differential equations on

manifolds and singular implicit differential equations Such problems arise in a variety of applications e g constrained mechanical systems fluid dynamics chemical reaction kinetics simulation of electrical networks and control engineering From a more theoretical viewpoint the study of differential algebraic problems gives insight into the behaviour of numerical methods for stiff ordinary differential equations These lecture notes provide a self contained and comprehensive treatment of the numerical solution of differential algebraic systems using Runge Kutta methods and also extrapolation methods Readers are expected to have a background in the numerical treatment of ordinary differential equations The subject is treated in its various aspects ranging from the theory through the analysis to implementation and applications

Numerical Methods S. R. K. Iyengar, R. K. Jain, 2009 About the Book This comprehensive textbook covers material for one semester course on Numerical Methods MA 1251 for B E B Tech students of Anna University The emphasis in the book is on the presentation of fundamentals and theoretical concepts in an intelligible and easy to understand manner The book is written as a textbook rather than as a problem guide book The textbook offers a logical presentation of both the theory and techniques for problem solving to motivate the students in the study and application of Numerical Methods Examples and Problems in Exercises are used to explain

Numerical Methods for Nonlinear Algebraic Equations Philip Rabinowitz, British Computer Society. Numerical Analysis Specialist Group, 1970

Numerical Solution of Systems of Nonlinear Algebraic Equations George D. Byrne, Charles A. Hall, 2014-05-10 Numerical Solution of Systems of Nonlinear Algebraic Equations contains invited lectures of the NSF CBMS Regional Conference on the Numerical Solution of Nonlinear Algebraic Systems with Applications to Problems in Physics Engineering and Economics held on July 10 14 1972 This book is composed of 10 chapters and begins with the concepts of nonlinear algebraic equations in continuum mechanics The succeeding chapters deal with the numerical solution of quasilinear elliptic equations the nonlinear systems in semi infinite programming and the solution of large systems of linear algebraic equations These topics are followed by a survey of some computational techniques for the nonlinear least squares problem The remaining chapters explore the problem of nonlinear functional minimization the modification methods and the computer oriented algorithms for solving system These chapters also examine the principles of contractor theory of solving equations This book will prove useful to undergraduate and graduate students

Numerical Methods that Work Forman S. Acton, 2020-07-31

Numerical Solution of Initial-value Problems in Differential-algebraic Equations Kathryn Eleda Brenan, Stephen La Vern Campbell, Linda Ruth Petzold, 1989

Numerical Analysis of Ordinary Differential Equations and Its Applications Taketomo Mitsui, Yoshitane Shinohara, 1995 The book collects original articles on numerical analysis of ordinary differential equations and its applications Some of the topics covered in this volume are discrete variable methods Runge Kutta methods linear multistep methods stability analysis parallel implementation self validating numerical methods analysis of nonlinear oscillation by numerical means differential algebraic and delay differential equations and stochastic initial value problems

Numerical Methods for Engineers and Scientists Joe D.

Hoffman, Steven Frankel, 2018-10-03 Emphasizing the finite difference approach for solving differential equations the second edition of Numerical Methods for Engineers and Scientists presents a methodology for systematically constructing individual computer programs Providing easy access to accurate solutions to complex scientific and engineering problems each chapter begins with objectives a discussion of a representative application and an outline of special features summing up with a list of tasks students should be able to complete after reading the chapter perfect for use as a study guide or for review The AIAA Journal calls the book a good solid instructional text on the basic tools of numerical analysis

Numerical Analysis I. M. Khabaza, 2014-05-16 Numerical Analysis is an elementary introduction to numerical analysis its applications limitations and pitfalls Methods suitable for digital computers are emphasized but some desk computations are also described Topics covered range from the use of digital computers in numerical work to errors in computations using desk machines finite difference methods and numerical solution of ordinary differential equations This book is comprised of eight chapters and begins with an overview of the importance of digital computers in numerical analysis followed by a discussion on errors in computations using desk machines Subsequent chapters deal with recurrence relations and algebraic equations basic properties of matrices relaxation and finite difference methods and numerical methods for unequal intervals The derivation of Lagrange's interpolation polynomial is explained together with curve fitting and the method of least squares orthogonal polynomials and integration methods This monograph will be of interest to practicing engineers mathematicians and scientists as well as students

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Differential-algebraic Equations PETER KUNKEL; VOLKER MEHRMANN., Peter Kunkel, Volker Ludwig Mehrmann, Differential algebraic equations are a widely accepted tool for the modeling and simulation of constrained dynamical systems in numerous applications such as mechanical multibody systems electrical circuit simulation chemical engineering control theory fluid dynamics and many others This is the first comprehensive textbook that provides a systematic and detailed analysis of initial and boundary value problems for differential algebraic equations The analysis is developed from the theory of linear constant coefficient systems via linear variable coefficient systems to general nonlinear systems Further sections on control problems generalized inverses of differential algebraic operators generalized solutions and differential equations on manifolds complement the theoretical treatment of initial value problems Two major classes of numerical methods for differential algebraic equations Runge Kutta and BDF methods are discussed and analyzed with respect to convergence and

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Numerical Solution of Ordinary Differential Equations Kendall Atkinson, Weimin Han, David E. Stewart, 2011-10-24 A concise introduction to numerical methods and the mathematical framework needed to understand their performance Numerical Solution of Ordinary Differential Equations presents a complete and easy to follow introduction to classical topics in the numerical solution of ordinary differential equations The book's approach not only explains the presented mathematics but also helps readers understand how these numerical methods are used to solve real world problems Unifying perspectives are provided throughout the text bringing together and categorizing different types of problems in order to help readers comprehend the applications of ordinary differential equations In addition the authors' collective academic experience ensures a coherent and accessible discussion of key topics including Euler's method Taylor and Runge Kutta methods General error analysis for multi step methods Stiff differential equations Differential algebraic equations Two point boundary value problems Volterra integral equations Each chapter features problem sets that enable readers to test and build their knowledge of the presented methods and a related Web site features MATLAB programs that facilitate the exploration of numerical methods in greater depth Detailed references outline additional literature on both analytical and numerical aspects of ordinary differential equations for further exploration of individual topics Numerical Solution of Ordinary Differential Equations is an excellent textbook for courses on the numerical solution of differential equations at the upper undergraduate and beginning graduate levels It also serves as a valuable reference for researchers in the fields of mathematics and engineering

The Numerical Solution of Algebraic Equations R. Wait, 1979

Computer Methods for Ordinary Differential Equations and Differential-Algebraic Equations Uri M. Ascher, Linda R. Petzold, 1998-08-01 This book contains all the material necessary for a course on the numerical solution of differential equations

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