



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

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

Peter Kunkel



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

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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

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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

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[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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