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

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.

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

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

$$x_0 = 3$$

$$x_1 = 2.912$$

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

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

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

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

Sub in $x_0 = 3$

$$x_1 = 2.912$$

Calculate

2C

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Kathleen Armour

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The Solutions of a Nonlinear Difference Equation Found in Numerical Analysis Bruce Donald Westermo,California Institute of Technology. Division of Engineering and Applied Science,1978   **Global Behavior of Nonlinear Difference Equations of Higher Order with Applications** V.L. Kocic,G. Ladas,1993-05-31 Nonlinear difference equations of order greater than one are of paramount impor tance in applications where the n 1 st generation or state of the system depends on the previous k generations or states Such equations also appear naturally as discrete analogues and as numerical solutions of differential and delay differential equations which model various diverse phenomena in biology ecology physiology physics engineering and economics Our aim in this monograph is to initiate a systematic study of the global behavior of solutions of nonlinear scalar difference equations of order greater than one Our primary concern is to study the global asymptotic stability of the equilibrium solution We are also interested in whether the solutions are bounded away from zero and infinity in the description of the semi cycles of the solutions and in the existence of periodic solutions This monograph contains some recent important developments in this area together with some applications to mathematical biology Our intention is to expose the reader to the frontiers of the subject and to formulate some important open problems that require our immediate attention   **Scientific Computing with MATLAB** Dingyu Xue,YangQuan Chen,2018-09-03 Scientific Computing with MATLAB Second Edition improves students ability to tackle mathematical problems It helps students understand the mathematical background and find reliable and accurate solutions to mathematical problems with the use of MATLAB avoiding the tedious and complex technical details of mathematics This edition retains the structure of its predecessor while expanding and updating the content of each chapter The book bridges the gap between problems and solutions through well grouped topics and clear MATLAB example scripts and reproducible MATLAB generated plots Students can effortlessly experiment with the scripts for a deep hands on exploration Each chapter also includes a set of problems to strengthen understanding of the material   Library of Congress Subject Headings Library of Congress,Library of Congress. Subject Cataloging Division,Library of Congress. Office for Subject Cataloging Policy,2013   **Library of Congress Subject Headings** Library of Congress. Cataloging Policy and Support Office,2006   *Scientific and Technical Aerospace Reports* ,1984   **Numerical Solutions of Boundary Value Problems of Non-linear Differential Equations** Sujaul Chowdhury,Syed Badiuzzaman Faruque,Ponkog Kumar Das,2021-10-24 The book presents in comprehensive detail numerical solutions to boundary value problems of a number of non linear differential equations Replacing derivatives by finite difference approximations in these differential equations leads to a system of non linear algebraic equations which we have solved using Newton s iterative method In each case we have also obtained Euler solutions and ascertained that the iterations converge to Euler solutions We find that except for the boundary values initial values of the 1st iteration need not be anything close to the final convergent values of the numerical solution Programs in

Mathematica 6 0 were written to obtain the numerical solutions *Explorations of Mathematical Models in Biology with Maple* Mazen Shahin,2014-10-07 Explore and analyze the solutions of mathematical models from diverse disciplines As biology increasingly depends on data algorithms and models it has become necessary to use a computing language such as the user friendly MapleTM to focus more on building and analyzing models as opposed to configuring tedious calculations Explorations of Mathematical Models in Biology with Maple provides an introduction to model creation using Maple followed by the translation analysis interpretation and observation of the models With an integrated and interdisciplinary approach that embeds mathematical modeling into biological applications the book illustrates numerous applications of mathematical techniques within biology ecology and environmental sciences Featuring a quantitative computational and mathematical approach the book includes Examples of real world applications such as population dynamics genetics drug administration interacting species and the spread of contagious diseases to showcase the relevancy and wide applicability of abstract mathematical techniques Discussion of various mathematical concepts such as Markov chains matrix algebra eigenvalues eigenvectors first order linear difference equations and nonlinear first order difference equations Coverage of difference equations to model a wide range of real life discrete time situations in diverse areas as well as discussions on matrices to model linear problems Solutions to selected exercises and additional Maple codes Explorations of Mathematical Models in Biology with Maple is an ideal textbook for undergraduate courses in mathematical models in biology theoretical ecology bioeconomics forensic science applied mathematics and environmental science The book is also an excellent reference for biologists ecologists mathematicians biomathematicians and environmental and resource economists **Explorations of Mathematical Models in Biology with MATLAB** Mazen Shahin,2013-12-24 Explore and analyze the solutions of mathematical models from diverse disciplines As biology increasingly depends on data algorithms and models it has become necessary to use a computing language such as the user friendly MATLAB to focus more on building and analyzing models as opposed to configuring tedious calculations Explorations of Mathematical Models in Biology with MATLAB provides an introduction to model creation using MATLAB followed by the translation analysis interpretation and observation of the models With an integrated and interdisciplinary approach that embeds mathematical modeling into biological applications the book illustrates numerous applications of mathematical techniques within biology ecology and environmental sciences Featuring a quantitative computational and mathematical approach the book includes Examples of real world applications such as population dynamics genetics drug administration interacting species and the spread of contagious diseases to showcase the relevancy and wide applicability of abstract mathematical techniques Discussion of various mathematical concepts such as Markov chains matrix algebra eigenvalues eigenvectors first order linear difference equations and nonlinear first order difference equations Coverage of difference equations to model a wide range of real life discrete time situations in diverse areas as well as discussions on matrices to model linear problems Solutions to selected exercises and

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important for health care planning and to estimate the number infected in the last several years which is important for monitoring the current status of the epidemic   Non Linear Mathematics Vol. II Thomas L. Saaty,2014-12-22 Nonlinear equations have existed for hundreds of years their systematic study however is a relatively recent phenomenon This volume together with its companion Nonlinear Matliematics Vol I provides exceptionally comprehensive coverage of this recently formed area of study It encompasses both older and more recent developments in the field of equations with particular emphasis on nonlinear equations because as Professor Saaty maintains that is what is needed today Together the two volumes cover all the major types of classical equations except partial differential equations which require a separate volume This volume includes material on seven types operator equations functional equations difference equations delay differential equations integral equations integro differential equations and stochastic differential equations Special emphasis is placed on linear and nonlinear equations in function spaces and On general methods of solving different types of such equations Above all this book is practical It reviews the variety of existing types of equations and provides methods for their solution It is meant to help the reader acquire new methods for formulating problems Its clear organization and copious references make it suitable for graduate students as well as scientists technologists and mathematicians   Symmetries and Integrability of Difference Equations Decio Levi,Raphaël Rebelo,Pavel Winternitz,2017-06-30 This book shows how Lie group and integrability techniques originally developed for differential equations have been adapted to the case of difference equations Difference equations are playing an increasingly important role in the natural sciences Indeed many phenomena are inherently discrete and thus naturally described by difference equations More fundamentally in subatomic physics space time may actually be discrete Differential equations would then just be approximations of more basic discrete ones Moreover when using differential equations to analyze continuous processes it is often necessary to resort to numerical methods This always involves a discretization of the differential equations involved thus replacing them by difference ones Each of the nine peer reviewed chapters in this volume serves as a self contained treatment of a topic containing introductory material as well as the latest research results and exercises Each chapter is presented by one or more early career researchers in the specific field of their expertise and in turn written for early career researchers As a survey of the current state of the art this book will serve as a valuable reference and is particularly well suited as an introduction to the field of symmetries and integrability of difference equations Therefore the book will be welcomed by advanced undergraduate and graduate students as well as by more advanced researchers   **Revival: Numerical Solution Of Convection-Diffusion Problems (1996)** K.W. Morton,2019-02-25 Accurate modeling of the interaction between convective and diffusive processes is one of the most common challenges in the numerical approximation of partial differential equations This is partly due to the fact that numerical algorithms and the techniques used for their analysis tend to be very different in the two limiting cases of elliptic and hyperbolic equations Many different ideas and approaches have been proposed in widely differing contexts to resolve the

difficulties of exponential fitting compact differencing number upwinding artificial viscosity streamline diffusion Petrov Galerkin and evolution Galerkin being some examples from the main fields of finite difference and finite element methods The main aim of this volume is to draw together all these ideas and see how they overlap and differ The reader is provided with a useful and wide ranging source of algorithmic concepts and techniques of analysis The material presented has been drawn both from theoretically oriented literature on finite differences finite volume and finite element methods and also from accounts of practical large scale computing particularly in the field of computational fluid dynamics **Hyperbolic Equations and Waves** Marcel Froissart,2013-11-11 The success of the 1967 Battelle Rencontres was so much appre ciated by the participants and organizers of this experimental set up that it was soon decided to go on with the experiment Mathematicians and physicists had found a very suitable frame to overcome their natural shyness to get occasionally interested into each others work to talk 1968 Rencontres have about it and eventually to know each other The been organized with the same idea in mind and even somewhat enlarged in the following sense the topic chosen hyperbolic equations and waves has proved a cornerstone of physics for more than a century and extends over most fields of contemporary physics It follows immediately that the wide range of physicists concerned could not be represented by more than a couple of specialists in any single field Thus aside from bridging the gap between mathematicians and physicists the 1968 Recontres provided a rather unique occasion to plug many intra disciplinary gaps among physicists This made the Rencontres quite unpredictable as to how people would and could interact and created a very stimulating environ ment for an unprecedented intellectual venture From the outside it may very well look like a hodge podge of quite unrelated ideas But it was much less so at the level of day to day discussions and informal gatherings where all slowly acquired a comprehensive synthetic view of the subject *Numerical Solutions of Boundary Value Problems for Ordinary Differential Equations* A.K. Aziz,2014-05-10 Numerical Solutions of Boundary Value Problems for Ordinary Differential Equations covers the proceedings of the 1974 Symposium by the same title held at the University of Maryland Baltimore Country Campus This symposium aims to bring together a number of numerical analysis involved in research in both theoretical and practical aspects of this field This text is organized into three parts encompassing 15 chapters Part I reviews the initial and boundary value problems Part II explores a large number of important results of both theoretical and practical nature of the field including discussions of the smooth and local interpolant with small K th derivative the occurrence and solution of boundary value reaction systems the posteriori error estimates and boundary problem solvers for first order systems based on deferred corrections Part III highlights the practical applications of the boundary value problems specifically a high order finite difference method for the solution of two point boundary value problems on a uniform mesh This book will prove useful to mathematicians engineers and physicists *Numerical Solution of Partial Differential Equations in Science and Engineering* Leon Lapidus,George F. Pinder,2011-02-14 From the reviews of Numerical Solution of PartialDifferential Equations in Science and Engineering The

book by Lapidus and Pinder is a very comprehensive evenexhaustive survey of the subject It is unique in that itcovers equally finite difference and finite element methods Burrelle s The authors have selected an elementary but not simplistic mode of presentation Many different computational schemes aredescribed in great detail Numerous practical examples andapplications are described from beginning to the end often withcalculated results given Mathematics of Computing This volume devotes its considerable number of pages tolucid developments of the methods for solving partial differentialequations the writing is very polished and I found it apleasure to read Mathematics of Computation Of related interest NUMERICAL ANALYSIS FOR APPLIED SCIENCE Myron B Allen andEli L Isaacson A modern practical look at numerical analysis this book guides readers through a broad selection of numericalmethods implementation and basic theoretical results with anemphasis on methods used in scientific computation involvingdifferential equations 1997 0 471 55266 6 512 pp APPLIED MATHEMATICS Second Edition J David Logan Presenting an easily accessible treatment of mathematical methodsfor scientists and engineers this acclaimed work covers fluidmechanics and calculus of variations as well as more modernmethods dimensional analysis and scaling nonlinear wavepropagation bifurcation and singular perturbation 1996 0 471 16513 1 496 pp   A Bibliography for the Numerical Solution of Partial Differential Equations John H. Giese,1969 A list of 2561 references to the numerical solution of partial differential equations has been compiled References to reviews in several abstracting journals have been given and a crude index has been prepared Author

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