Introduction to Numerical Computing

Dhere P*

Department of Mathematics, Bharati Vidyapeeth University, Sadashiv Peth, Pune, Maharashtra, India

Abstract

The main aim of this paper is to understand the information to numerical computing. In this paper we solve some examples of numerical computing. The numerical computational techniques are the technique by which mathematical problems are formulated and they can be solved with arithmetic operations. Those techniques are basically numerical methods. Numerical method supports the solution of almost every type of problem. The numerical methods are classified depending upon the type of the problem.

Introduction to Numerical Computing

Numerical computing is an approach for solving complex mathematical problems using only simple arithmetic operations [1]. The approach involves formulation of mathematical models physical situations that can be solved with arithmetic operations [2]. It requires development, analysis and use of algorithms. Numerical computations invariably involve a large number of arithmetic calculations and, therefore, require fast and efficient computing devices [3]. The microelectronic revolution and the subsequent development of high, low cost personal computers have had a profound impact on the application of numerical computing methods to solve scientific problems [4].

Numerical Methods are Classified Basically Depending upon the Type of Problem

Numerical methods to find roots of equations

In many Engineering and Science application we come across some algebraic and transcendental equation [5].

Ex. Consider the equation:

$F(x) = x^2 - 3x + 2$

Such equation is satisfied at some specific value of x. These values are called roots of the equation. The solution of this equation can be obtained with the help of numerical methods [6].

System of Linear Algebric Equation

Consider,

$2x + 3y = 7$

$5x + 8y = 18$.

The values of x and y in these equation can be obtained with help of numerical method [7].

Direct method become complex for no. of variables.

Numerical method are the best solution for large system. Such equation are generated in analysis of electronic ckts. Large structures etc. [8].

Floating Point Numbers

The term floating point is derived from fact that there is fixed no of digit before and after the decimal point i.e., the decimal point can float [9].

There are also representation in which number of digit before and after the decimal no is set called as fixed point representation [10].

In general, floating point representations are slower and less accurate. Than fixed point representation, but they can handled a large range of numbers [11].

Distinguish Between Analog Computing and Digital Computing

Analog computing

Analog refers to the principle of solving a problem by using a tool which operates in way analogues to the problem [12,13]. Many real life measurable quantities are analog in nature: time, temperature, pressure, and speed, for instance. The basic requirement in the application of analog computers is the writing down of differential equations describing the physical system of interest [14,15].

Digital Computing

A digital computer is a computing device that operates on inputs which are discrete in nature [16,17]. The input data are numbers that may represents numeral, letters, or other special symbols. Digital computers are more accurate than analog computers. Digital computers are widely used for many different applications and are often called general purpose computer [18-20].

Characteristics of Numerical Computing

1. **Accuracy:** Every method of numerical computing introduces errors. They may be either due to using an appropriate in pace of an exact mathematical procedure or due to inexact representation and manipulation of numbers in the computer. These errors affect the accuracy of the results.

2. **Efficiency:** One more consideration in choosing a numerical method for solution of a mathematical model is efficiency.

***Corresponding author:** Dhere P, Department of Mathematics, Bharati Vidyapeeth University, Sadashiv Peth, Pune, Maharashtra, India, Tel: 02024407131; E-mail: purvaamuradhadhere2000@gmail.com

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Handbook of Numerical Analysis Philippe G. Ciarlet,Jacques Louis Lions,2002 **Numerical Mathematics** Alfio Quarteroni,Riccardo Sacco,Fausto Saleri,2010-11-30 This book provides the mathematical foundations of numerical methods and demonstrates their performance on examples exercises and real life applications This is done using the MATLAB software environment which allows an easy implementation and testing of the algorithms for any specific class of problems The book is addressed to students in Engineering Mathematics Physics and Computer Sciences In the second edition of this extremely popular textbook on numerical analysis the readability of pictures tables and program headings has been improved Several changes in the chapters on iterative methods and on polynomial approximation have also been **Scientific Computing with MATLAB and Octave** Alfio Quarteroni,Fausto Saleri,Paola Gervasio,2010-05-30 Preface to the First Edition This textbook is an introduction to Scienti c Computing We will illustrate several numerical methods for the computer solution of c tain classes of mathematical problems that cannot be faced by paper and pencil We will show how to compute the zeros or the integrals of continuous functions solve linear systems approximate functions by polynomials and construct accurate approximations for the solution of di erential equations With this aim in Chapter 1 we will illustrate the rules of the game thatcomputersadoptwhenstoringandoperatingwith realandcomplex numbers vectors and matrices In order to make our presentation concrete and appealing we will 1 adopt the programming environment MATLAB as a faithful c panion We will gradually discover its principal commands statements and constructs We will show how to execute all the algorithms that we introduce throughout the book This will enable us to furnish an mediate quantitative assessment of their theoretical properties such as stability accuracy and complexity We will solve several problems that will be raisedthrough exercises and examples often stemming from s ci c applications **Proceedings - Manitoba Conference on Numerical Mathematics**

and Computing ,1994 **Computational Mathematics in Engineering and Applied Science** W.E. Schiesser,1993-10-25 Computational Mathematics in Engineering and Applied Science provides numerical algorithms and associated software for solving a spectrum of problems in ordinary differential equations ODEs differential algebraic equations DAEs and partial differential equations PDEs that occur in science and engineering It presents detailed examples each including a complete analysis of a computer code written in transportable Fortran 77 Each example also includes a discussion of the problem equations the coding of the equations and the computed numerical solution The benefits of using quality general purpose library routines to solve ODE DAE PDE problems are illustrated as well This popular classic book is a valuable reference for methodologies in numerical mathematics applicable to a broad spectrum of problems encountered across many disciplines virtually all fields of science and engineering It also serves as an excellent text for senior undergraduates or beginning graduate students in computational science **Numerical Solution of Partial Differential Equations in Science and Engineering** Leon Lapidus,George F. Pinder,1999-07-08 From the reviews of Numerical Solution of Partial Differential Equations in Science and Engineering The book by Lapidus and Pinder is a very comprehensive even exhaustive survey of the subject It is unique in that it covers 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 are described in great detail Numerous practical examples and applications are described from beginning to the end often with calculated results given Mathematics of Computing This volume devotes its considerable number of pages to lucid developments of the methods for solving partial differential equations the writing is very polished and I found it a pleasure to read Mathematics of Computation Of related interest NUMERICAL ANALYSIS FOR APPLIED SCIENCE Myron B Allen and Eli L Isaacson A modern practical look at numerical analysis this book guides readers through a broad selection of numerical methods implementation and basic theoretical results with an emphasis on methods used in scientific computation involving differential equations 1997 0 471 55266 6 512 pp APPLIED MATHEMATICS Second Edition J David Logan Presenting an easily accessible treatment of mathematical methods for scientists and engineers this acclaimed work covers fluid mechanics and calculus of variations as well as more modern methods dimensional analysis and scaling nonlinear wave propagation bifurcation and singular perturbation 1996 0 471 16513 1 496 pp An Introduction to Numerical Methods and Analysis James F. Epperson,2007-09-17 Praise for the First Edition outstandingly appealing with regard to its style contents considerations of requirements of practice choice of examples and exercises Zentrablatt Math carefully structured with many detailed worked examples The Mathematical Gazette an up to date and user friendly account Mathematika An Introduction to Numerical Methods and Analysis addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from why they sometimes work or don t work and when to use one of the many techniques that are available Written in a style that emphasizes readability and

usefulness for the numerical methods novice the book begins with basic elementary material and gradually builds up to more advanced topics A selection of concepts required for the study of computational mathematics is introduced and simple approximations using Taylor s Theorem are also treated in some depth The text includes exercises that run the gamut from simple hand computations to challenging derivations and minor proofs to programming exercises A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book An Introduction to Numerical Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical methods and numerical analysis

    Numerical Mathematics and Advanced Applications Karl Kunisch,Günther Of,Olaf Steinbach,2008-09-19 The European Conference on Numerical Mathematics and Advanced Applications ENUMATH is a series of conferences held every two years to provide a forum for discussion on recent aspects of numerical mathematics and their applications The rst ENUMATH conference was held in Paris 1995 and the series continued by the one in Heidelberg 1997 Jyvaskyla 1999 Ischia 2001 Prague 2003 and Santiago de Compostela 2005 This volume contains a selection of invited plenary lectures papers presented in minisymposia and contributed papers of ENUMATH 2007 held in Graz Austria September 10 14 2007 We are happy that so many people have shown their interest in this conference In addition to the ten invited presentations and the public lecture we had more than 240 talks in nine minisymposia and fty four sessions of contributed talks and about 316 participants from all over the world specially from Europe A total of 98 contributions appear in these proceedings Topics include theoretical aspects of new numerical techniques and algorithms as well as to applications in engineering and science The book will be useful for a wide range of readers giving them an excellent overview of the most modern methods techniques algorithms and results in numerical mathematics scienti c computing and their applications We would like to thank all the participants for the attendance and for their va ablecontributionsanddiscussionsduringtheconference Specialthanksgothe m isymposium organizers who made a large contribution to the conference the chair persons and all speakers   Guide to Scientific Computing Peter R. Turner,2000 Guide to Scientific Computing by Peter Turner is a gentle and sympathetic introduction to many of the problems of scientific computing and the wide variety of methods used for their solutions   **Scientific Computing with MATLAB** Alfio Quarteroni,Fausto Saleri,2003 This textbook is an introduction to Scientific Computing in which several numerical methods for the computer solution of certain classes of mathematical problems are illustrated The authors show how tonbsp compute the zeros or the integrals of continuous functions solve linear systems approximate functions by polynomials and construct accurate approximations for thenbsp solution of differential equations To make the presentation concrete and appealing the programming environmentnbsp Matlab is adopted as a faithful companion All the algorithms introduced throughout the booknbsp are shown thus furnishing an immediate quantitative assessment of their theoretical properties such as stability accuracy and complexity The book also contains the solution to several problemsnbsp

raised through exercises and examples oftennbsp originating from specific applications A specific section is devotednbsp to subjectsnbsp which were not addressed in the book andnbsp indicatenbsp the bibliographical references for a more comprehensive treatment of the material nbsp nbsp nbsp nbsp nbsp nbsp   *A Graduate Introduction to Numerical Methods* Robert M. Corless,Nicolas Fillion,2013-12-12 This book provides an extensive introduction to numerical computing from the viewpoint of backward error analysis The intended audience includes students and researchers in science engineering and mathematics The approach taken is somewhat informal owing to the wide variety of backgrounds of the readers but the central ideas of backward error and sensitivity conditioning are systematically emphasized The book is divided into four parts Part I provides the background preliminaries including floating point arithmetic polynomials and computer evaluation of functions Part II covers numerical linear algebra Part III covers interpolation the FFT and quadrature and Part IV covers numerical solutions of differential equations including initial value problems boundary value problems delay differential equations and a brief chapter on partial differential equations The book contains detailed illustrations chapter summaries and a variety of exercises as well some Matlab codes provided online as supplementary material I really like the focus on backward error analysis and condition This is novel in a textbook and a practical approach that will bring welcome attention Lawrence F Shampine A Graduate Introduction to Numerical Methods and Backward Error Analysis has been selected by Computing Reviews as a notable book in computing in 2013 Computing Reviews Best of 2013 list consists of book and article nominations from reviewers CR category editors the editors in chief of journals and others in the computing community

Lectures on Numerical Mathematics H. Rutishauser,2012-12-06 The present book is an edition of the manuscripts to the courses Numerical Methods I and Numerical Mathematics I and II which Professor H Rutishauser held at the E T H in Zurich The first named course was newly conceived in the spring semester of 1970 and intended for beginners while the two others were given repeatedly as elective courses in the sixties For an understanding of most chapters the funda mentals of linear algebra and calculus suffice In some places a little complex variable theory is used in addition However the reader can get by without any knowledge of functional analysis The first seven chapters discuss the direct solution of systems of linear equations the solution of nonlinear systems least squares prob lems interpolation by polynomials numerical quadrature and approxima tion by Chebyshev series and by Remez algorithm The remaining chapters include the treatment of ordinary and partial differential equa tions the iterative solution of linear equations and a discussion of eigen value problems In addition there is an appendix dealing with the qd algorithm and with an axiomatic treatment of computer arithmetic

Fundamentals of Numerical Computation Tobin A Driscoll,Richard J. Braun,2022-08-24 Julia is an open source and fast growing programming language for scientific computing that offers clarity and ease of use for beginners but also speed and power for advanced applications Fundamentals of Numerical Computation Julia Edition provides a complete solution for teaching Julia in the context of numerical methods It introduces the mathematics and use of algorithms for the fundamental

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NUMERICAL ANALYSIS Vinay Vachharajani,2018-06-01 Description This book is Designed to serve as a text book for the undergraduate as well as post graduate students of Mathematics Engineering Computer Science COVERAGE Concept of numbers and their accuracy binary and decimal number system limitations of floating point representation Concept of error and their types propagation of errors through process graph Iterative methods for finding the roots of algebraic and transcendental equations with their convergence methods to solve the set of non linear equations methods to obtain complex roots Concept of matrices the direct and iterative methods to solve a system of linear algebraic equations Finite differences interpolation and extrapolation methods cubic spline concept of curve fitting Differentiation and integration methods Solution of ordinary and partial differential equations SALIENT FEATURES Chapters include objectives learning outcomes multiple choice questions exercises for practice and solutions Programs are written in C Language for Numerical methods Topics are explained with suitable examples Arrangement Logical order clarity detailed presentation and explanation of each topic with numerous solved and unsolved examples Concise but lucid and student friendly presentation for derivation of formulas used in various numerical methods Table Of Contents Computer ArithmeticError Analysis Solution of Algebraic and Transcendental Equations Solution of System of Linear Equations and Eigen value Problems Finite Differences Interpolation Curve Fitting and Approximation Numerical Differentiation Numerical Integration Difference Equations Numerical Solution of Ordinary Differential Equations Numerical Solution of Partial Differential Equations Appendix I Case Studies Applications

Appendix II Synthetic Division Bibliography Index   Numerical Solution of Ordinary Differential Equations ,1971-03-31 In this book we study theoretical and practical aspects of computing methods for mathematical modelling of nonlinear systems A number of computing techniques are considered such as methods of operator approximation with any given accuracy operator interpolation techniques including a non Lagrange interpolation methods of system representation subject to constraints associated with concepts of causality memory and stationarity methods of system representation with an accuracy that is the best within a given class of models methods of covariance matrix estimation methods for low rank matrix approximations hybrid methods based on a combination of iterative procedures and best operator approximation andmethods for information compression and filtering under condition that a filter model should satisfy restrictions associated with causality and different types of memory As a result the book represents a blend of new methods in general computational analysis and specific but also generic techniques for study of systems theory ant its particularbranches such as optimal filtering and information compression Best operator approximation Non Lagrange interpolation Generic Karhunen Loeve transform Generalised low rank matrix approximation Optimal data compression Optimal nonlinear filtering

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