

NUMERICAL METHODS - II

Solution of Algebraic and Transcendental Equations

Preliminaries:

A problem of great importance in science and engineering is that of determining the roots/zeros of an equation of the form $f(x) = 0$.

A polynomial equation of the form

$$f(x) = a_0 x^n + a_1 x^{n-1} + a_2 x^{n-2} + \dots + a_{n-1} x + a_n = 0$$

is called an **algebraic equation**. An equation which contains polynomials, exponential functions, trigonometric functions and logarithmic functions etc. is called transcendental equation.

Initial approximation for an iterative procedure:

We use the following theorem of calculus to determine an initial approximation. It is also called intermediate value theorem.

Theorem : If $f(x)$ is continuous on some interval $[a, b]$ and $f(a) f(b) < 0$, then the equation $f(x) = 0$ has at least one real root or an odd number of real roots in the interval (a, b) .

BISECTION METHOD

For definiteness, let $f(a)$ be negative and $f(b)$ be positive. Then the root lies between a and b and let its approximate value be given by

$x_0 = \frac{a+b}{2}$. If $f(x_0) = 0$, we conclude that x_0 is a root of the equation $f(x) = 0$. Otherwise the root lies between x_0 and b or between x_0 and a depending on whether $f(x_0)$ is positive or negative. We designate this new interval as $[a_1, b_1]$ whose length is $\frac{|b-a|}{2}$, as

Numerical Methods Ii

Christian Drosten



Numerical Methods II:

Numerical Methods II Ben Noble,1966 Multigrid Methods II Wolfgang Hackbusch,Ulrich Trottenberg,2006-11-14

Chemical and Biological Sensors and Analytical Methods II Electrochemical Society. Sensor Division,Electrochemical Society. Physical Electrochemistry Division,Electrochemical Society. Organic and Biological Electrochemistry Division,2001

Mathematics-II Mr. Rohit Manglik,2024-07-04 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Applied Electromagnetics and Computational Technology II Hajime Tsuboi,I. Vajda,2000 The Fifth

Japan Hungary Joint Seminar on Applied Electromagnetics in Materials and Computational Technology is held on September 24 26 1998 in Budapest Hungary The Seminar is organised by the Super Tech Consortium Hungary the Hungarian Society of Applied Electronics Hungary and the Japan Society of Applied Electromagnetics and Mechanics Japan The objective of the Seminar is to stimulate the exchange of creative ideas to promote new achievements by bringing together the engineers and scientists of Japan and Hungary working in the field of applied electromagnetics and related areas as well as to discuss the topics of future co operative research A special attention will be paid for the work of young scientists The scientific program covers the following topics Numerical Analysis of Electromagnetic Fields Material Modelling in Electromagnetic Fields Electromagnetic Non destructive Testing and Inverse Problems High Tc Superconducting Materials and Applications Controlled Electrical Drives This book will be published as the Proceedings of the Fifth Japan Hungary Joint Seminar including the selected papers which are presented at the Seminar **Engineering Mathematics - III, Volume 2** M. D.

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NBS Special Publication ,1965 *History of Nordic Computing 2* John Impagliazzo,Timo Järvi,Petri Paju,2009-09-19 The First Conference on the History of Nordic Computing HiNC1 was organized in Trondheim in June 2003 The HiNC1 event focused on the early years of computing that is the years from the 1940s through the 1960s although it formally extended to year 1985 In the preface of the proceedings of HiNC1 Janis Bubenko Jr John Impagliazzo and Arne S Iyberg describe well the peculiarities of early Nordic computing 1 While developing hardware was a necessity for the first professionals quite soon the computer became an industrial product Computer scientists among others grew increasingly interested in programming and application software Progress in these areas from the 1960s to the 1980s was experienced as astonishing The developments during these decades were taken as the focus of HiNC2 During those decades computers arrived to every branch of large and medium sized businesses and the users of the computer systems were no longer only computer specialists but also people with other main duties Compared to the early years of computing before 1960 where the number of computer projects and applications was small capturing a holistic view of the history between the 1960s and the 1980s is considerably more difficult The HiNC2 conference attempted to help in this endeavor **Catalogue of the University of Michigan** University of Michigan,1967 Announcements for the following year included in some vols **Finite Element Method in Structural Analysis** Mr. Sanjeev Pandey,2024-08-16 Explains the theory formulation and application of the Finite Element Method for analyzing and designing complex structural systems in civil mechanical and aerospace engineering **History of Nordic Computing** Janis Bubenko,John Impagliazzo,Arne Soelberg,2005-01-14 Computing in the Nordic countries started in late 1940s mainly as an engineering activity to build computing devices to perform mathematical calculations and assist mathematicians and engineers in scientific problem solving The early computers of the Nordic countries emerged during the 1950s and had names like BARK BESK DASK SMIL SARA ESKO and NUSSE Each of them became a nucleus in institutes and centres for mathematical computations programmed and used by highly qualified professionals However one should not forget the punched card machine technology at this time that had existed for several decades In addition we have a Nordic name namely Frederik Rosing Bull contributing to the fundamentals of punched card technology and forming the French company Bull Commercial products such as FACIT EDB and SAAB D20 series computers in Sweden the Danish GIER computer the Nokia MIKKO computer in Finland as well as the computers of Norsk Data in Norway followed the early computers In many cases however companies and institutions did not further develop or exploit Nordic computing hardware

even though it exhibited technical advantages Consequently in the 1970s US computers primarily from IBM flooded the Nordic market

Computational Techniques for Process Simulation and Analysis Using MATLAB® Niket S.

Kaisare,2017-09-18 MATLAB has become one of the prominent languages used in research and industry and often described as the language of technical computing The focus of this book will be to highlight the use of MATLAB in technical computing or more specifically in solving problems in Process Simulations This book aims to bring a practical approach to expounding theories both numerical aspects of stability and convergence as well as linear and nonlinear analysis of systems The book is divided into three parts which are laid out with a Process Analysis viewpoint First part covers system dynamics followed by solution of linear and nonlinear equations including Differential Algebraic Equations DAE while the last part covers function approximation and optimization Intended to be an advanced level textbook for numerical methods simulation and analysis of process systems and computational programming lab it covers following key points Comprehensive coverage of numerical analyses based on MATLAB for chemical process examples Includes analysis of transient behavior of chemical processes Discusses coding hygiene process animation and GUI exclusively Treatment of process dynamics linear stability nonlinear analysis and function approximation through contemporary examples Focus on simulation using MATLAB to solve ODEs and PDEs that are frequently encountered in process systems

College of Engineering University of Michigan. College of Engineering,1978

Survey of Applicable Mathematics K. Rektorys,2013-12-19 This major two volume handbook is an extensively revised updated second edition of the highly praised Survey of Applicable Mathematics first published in English in 1969 The thirty seven chapters cover all the important mathematical fields of use in applications algebra geometry differential and integral calculus infinite series orthogonal systems of functions Fourier series special functions ordinary differential equations partial differential equations integral equations functions of one and several complex variables conformal mapping integral transforms functional analysis numerical methods in algebra and in algebra and in differential boundary value problems probability statistics stochastic processes calculus of variations and linear programming All proofs have been omitted However theorems are carefully formulated and where considered useful are commented with explanatory remarks Many practical examples are given by way of illustration Each of the two volumes contains an extensive bibliography and a comprehensive index Together these two volumes represent a survey library of mathematics which is applicable in many fields of science engineering economics etc For researchers students and teachers of mathematics and its applications

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