

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

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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 **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 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 lverberg describe well the peculiarities of early Nordic c puting 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 P gress 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 s cialists but also people with other main duties Compared to the early years of comp ing 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. Engineering Mathematics - III, Volume 2 M. D.

PETALE, 2018-04-10 Purpose of this Book The purpose of this book is to supply lots of examples with detailed solutions that helps the students to understand each example step wise easily and get rid of the College assignments phobia. It is sincerely hoped that this book will help and better equip the higher secondary students to prepare and face the examinations with better confidence. I have endeavored to present the book in a lucid manner which will be easier to understand by all the engineering students. About the Book Many books have been written on Engineering Mathematics by different authors and teachers in India but majority of the students find it difficult to fully understand the examples in these books. Also the Teachers have faced many problems due to paucity of time and classroom workload. Sometimes the college teacher is not able to help their own student in solving many difficult examples in the class even though they wish to do so. Keeping in mind the need of the students the author was inspired to write a suitable text book providing solutions to various examples of Engineering Mathematics III Volume 1 and Volume 2. Preface It gives me great pleasure to present to you this book on A Textbook of Engineering Mathematics III Volume 1 presented specially for you. Many books have been written on Applied Mathematics by different authors and teachers in India but majority of the students find it difficult to fully understand the examples in these books. Also the Teachers have faced many problems due to paucity of time and classroom workload. Sometimes the college teacher is not able to help their own student in solving many difficult examples in the class even though they wish to do so. Keeping in mind the need of the students the author was inspired to write a suitable text book providing solutions to various examples of Engineering Mathematics III Volume 1. It is hoped that this book will meet more than adequately the needs of the students they are meant for. I have tried our level best to make this book error free.

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