

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

JS Bruner



Numerical Methods II:

The book delves into Numerical Methods Ii. Numerical Methods Ii is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Numerical Methods Ii, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Numerical Methods Ii
 - Chapter 2: Essential Elements of Numerical Methods Ii
 - Chapter 3: Numerical Methods Ii in Everyday Life
 - Chapter 4: Numerical Methods Ii in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Numerical Methods Ii. This chapter will explore what Numerical Methods Ii is, why Numerical Methods Ii is vital, and how to effectively learn about Numerical Methods Ii.
3. In chapter 2, the author will delve into the foundational concepts of Numerical Methods Ii. This chapter will elucidate the essential principles that must be understood to grasp Numerical Methods Ii in its entirety.
4. In chapter 3, this book will examine the practical applications of Numerical Methods Ii in daily life. This chapter will showcase real-world examples of how Numerical Methods Ii can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Numerical Methods Ii in specific contexts. The fourth chapter will explore how Numerical Methods Ii is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Numerical Methods Ii. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Numerical Methods Ii.

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Numerical Methods Ii Introduction

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