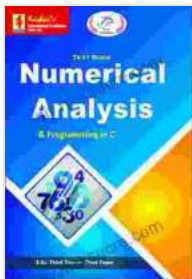


Krishna Numerical Analysis Programming In Edition 1c Pages 448 Code 849

This book is a comprehensive to numerical analysis, with a focus on programming. It covers a wide range of topics, including:



Krishna's Numerical Analysis & Programming in C Edition-1C Pages-448 Code-849 (Mathematics Book 10) by A.R Vasishtha

★★★★★ 5 out of 5

Language : English

File size : 9658 KB

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- Root finding
- Interpolation and approximation
- Numerical integration
- Numerical differentiation
- Ordinary differential equations
- Partial differential equations
- Linear algebra
- Optimization

The book is written in a clear and concise style, with plenty of examples and exercises. It is suitable for both undergraduate and graduate students in mathematics, computer science, and engineering.

Table of Contents

1. to Numerical Analysis
2. Root Finding
3. Interpolation and Approximation
4. Numerical Integration
5. Numerical Differentiation
6. Ordinary Differential Equations
7. Partial Differential Equations
8. Linear Algebra
9. Optimization
10. Appendix

Code

The following code is from the book, and it shows how to find the roots of a polynomial equation using the Newton-Raphson method.

```
import numpy as np

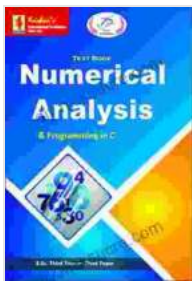
def newton_raphson(f, df, x0, tol): """ Find the root of a
polynomial equation using the Newton-Raphson method.
```

Args: f: The polynomial equation to solve. df: The derivative of the polynomial equation. x0: The initial guess for the root. tol: The tolerance for the error.

Returns: The root of the polynomial equation. ""

```
# Check if the initial guess is close enough to the root. if  
abs(f(x0))
```

This book is a valuable resource for anyone who wants to learn about numerical analysis. It is well-written, comprehensive, and full of examples and exercises.



Krishna's Numerical Analysis & Programming in C Edition-1 CIPages-448 Code-849 (Mathematics Book

10) by A.R Vasishtha

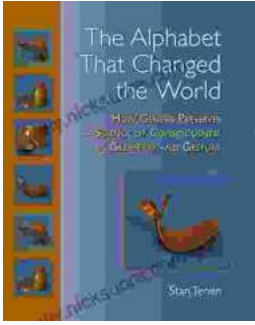
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