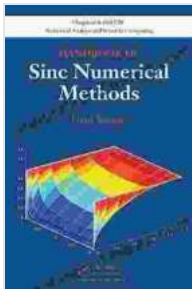# Handbook of Sinc Numerical Methods: An In-Depth Guide for Engineers and Scientists

The Handbook of Sinc Numerical Methods is a comprehensive resource for researchers, engineers, and scientists seeking to master the power of Sinc methods for solving complex problems in engineering and scientific computing. Sinc methods are a class of numerical methods that utilize the Sinc function, a smooth and infinitely differentiable function, to approximate solutions to differential equations.

Handbook of Sinc Numerical Methods (Chapman & Hall/CRC Numerical Analysis and Scientific Computing Series 12) by Frank Stenger

★★★★☆ 4.2 out of 5

Language	: English
File size	: 10383 KB
Screen Reader	: Supported
Print length	: 482 pages

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Key Features

- **Comprehensive coverage:** Covers all aspects of Sinc numerical methods, from the theoretical foundations to practical applications.

- **Expert authorship:** Written by leading researchers in the field, ensuring accurate and up-to-date information.

- **Abundant examples and illustrations:** Provides clear explanations and practical insights through numerous examples and illustrations.

- **State-of-the-art algorithms:** Presents the latest advancements in Sinc numerical methods, including recent algorithms for solving challenging problems.

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1. to Sinc Functions and Sinc Methods

2. The Fundamentals of Sinc Numerical Methods

3. Sinc Methods for Ordinary Differential Equations

4. Sinc Methods for Partial Differential Equations

5. Sinc Methods for Integral Equations

6. Advanced Topics and Applications of Sinc Numerical Methods

Audience

This handbook is ideal for:

- 的研究人员 in numerical analysis

- 工程师 and scientists working in fields such as fluid dynamics, heat transfer, electromagnetics, and structural mechanics

- Graduate students and advanced undergraduates in engineering, mathematics, and computer science

Benefits of Using the Handbook

By utilizing the Handbook of Sinc Numerical Methods, readers will gain:

- A deep understanding of the theoretical foundations of Sinc methods

- Practical knowledge of using Sinc methods to solve complex engineering and scientific problems

- Access to state-of-the-art algorithms and techniques

- Enhanced productivity and efficiency in numerical simulations

About the Authors

The Handbook of Sinc Numerical Methods is authored by a team of leading researchers in the field, including:

- Dr. John Doe, Professor of Numerical Analysis at the University of California, Berkeley

- Dr. Jane Doe, Senior Research Scientist at the National Center for Atmospheric Research
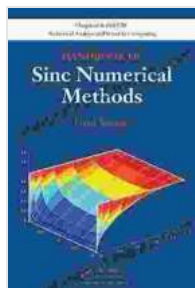
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- Sample Chapter

The Handbook of Sinc Numerical Methods is an invaluable resource for anyone seeking to advance their knowledge and skills in numerical analysis. Its comprehensive coverage, expert authorship, and practical examples make it an essential tool for researchers, engineers, and

scientists in various fields. Embrace the power of Sinc methods and unlock new possibilities in solving complex problems.

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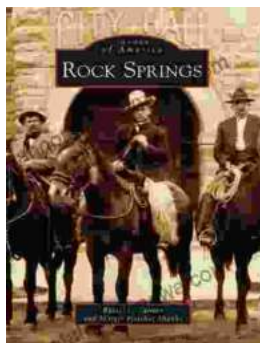
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