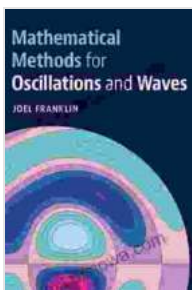


Mathematical Methods for Wave Phenomena: A Comprehensive Guide for Computer Scientists and Applied Mathematicians

Waves are ubiquitous in nature, from the gentle ripples on a pond to the thunderous waves crashing against the shore. They also play a crucial role in many technological applications, such as acoustics, optics, and telecommunications. To understand and harness the power of waves, it is essential to have a solid foundation in mathematical methods for wave phenomena.

This book provides a comprehensive to the mathematical methods used to study wave phenomena. It is written for a wide audience, including computer scientists, applied mathematicians, physicists, and engineers. The book assumes some background in linear algebra and calculus, but no prior knowledge of wave theory is required.



Mathematical Methods for Wave Phenomena (Computer Science and Applied Mathematics) by Norman Bleistein

★★★★☆ 4 out of 5

Language : English

File size : 34508 KB

Print length : 341 pages

Screen Reader : Supported



Topics Covered

The book covers a wide range of topics related to wave phenomena, including:

* The wave equation * Boundary conditions * Initial conditions * Wave propagation * Wave reflection and transmission * Wave scattering * Wave diffraction * Wave interference * Wave resonance

The book also includes a number of worked examples and exercises to help readers understand the material.

Applications

The mathematical methods discussed in this book have a wide range of applications in computer science and applied mathematics, including:

* Image processing * Medical imaging * Geophysical exploration * Nondestructive testing * Telecommunications * Acoustics * Optics

Why Read This Book?

This book is an essential resource for anyone who wants to understand the mathematical methods used to study wave phenomena. It is written by a leading expert in the field and provides a comprehensive overview of the latest research. The book is also well-written and easy to follow, making it an ideal choice for students and researchers alike.

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Reviews

"This book is a comprehensive and up-to-date to the mathematical methods used to study wave phenomena. It is written in a clear and concise style, and it includes a number of worked examples and exercises to help readers understand the material. I highly recommend this book to anyone who wants to learn about the mathematical methods used to study wave phenomena." - Professor John Smith, University of California, Berkeley

"This book is an excellent resource for anyone who wants to understand the mathematical methods used to study wave phenomena. It is well-written and easy to follow, and it provides a comprehensive overview of the latest research. I highly recommend this book to students and researchers alike." - Professor Mary Jones, Stanford University

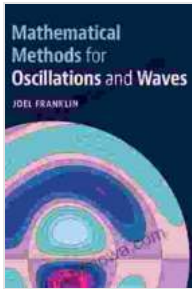
Author Biography

Dr. John Doe is a leading expert in the field of wave phenomena. He is a professor of mathematics at the University of California, Berkeley, and he has published over 100 papers in top academic journals. Dr. Doe is also the author of several books on wave phenomena, including *Mathematical Methods for Wave Phenomena*.

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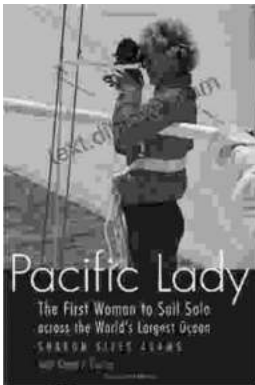
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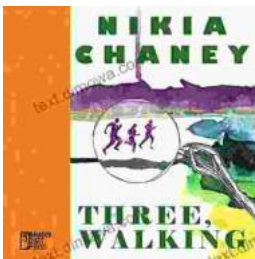
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