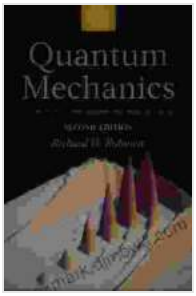
Classical Results, Modern Systems, and Visualized Examples: A Comprehensive Guide to Engineering Mathematics

This book provides a comprehensive and accessible to classical results in engineering mathematics, with a focus on modern systems and visualized examples. It covers a wide range of topics, including linear algebra, differential equations, complex analysis, and probability theory.



Quantum Mechanics: Classical Results, Modern Systems, and Visualized Examples by Mong Shen Ng

4.7 out of 5

Language	: English
File size	: 16390 KB
Screen Reader	: Supported
Print length	: 720 pages
Lending	: Enabled

The book is written in a clear and concise style, with a focus on explaining the underlying mathematical concepts rather than simply providing a list of formulas. Each chapter includes a number of solved examples, as well as exercises for the reader to practice. The book also includes a number of visualized examples, which help to illustrate the concepts discussed in the text.

This book is an ideal resource for undergraduate and graduate students in engineering and applied mathematics. It is also a valuable reference for

engineers and scientists who need to brush up on their mathematical skills.

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Chapter 1: Linear Algebra

This chapter introduces the basic concepts of linear algebra, including vectors, matrices, and linear equations. It also covers a number of important topics, such as eigenvalues and eigenvectors, and the singular value decomposition.

- Vectors
- Matrices
- Linear equations
- Eigenvalues and eigenvectors
- Singular value decomposition

Chapter 2: Differential Equations

This chapter introduces the basic concepts of differential equations, including ordinary differential equations and partial differential equations. It also covers a number of important topics, such as the Laplace transform and the Fourier transform.

- Ordinary differential equations
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- Laplace transform
- Fourier transform

Chapter 3: Complex Analysis

This chapter introduces the basic concepts of complex analysis, including complex numbers, complex functions, and Cauchy's integral formula. It also covers a number of important topics, such as the residue theorem and the conformal mapping.

- Complex numbers
- Complex functions
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Chapter 4: Probability Theory

This chapter introduces the basic concepts of probability theory, including probability distributions, random variables, and stochastic processes. It also covers a number of important topics, such as the central limit theorem and the law of large numbers.

- Probability distributions
- Random variables

- Stochastic processes
- Central limit theorem
- Law of large numbers

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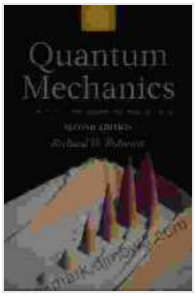

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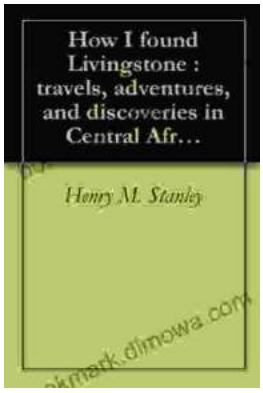

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