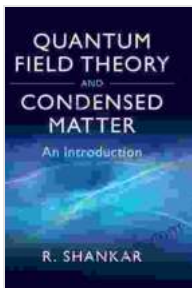


An Introduction to Quantum Physics for Mathematicians

Cambridge Monographs on Mathematical Physics

An Introduction to Quantum Physics for Mathematicians is a comprehensive and accessible textbook that provides a rigorous and modern approach to quantum mechanics for students of mathematics. Introducing quantum mechanics at the level of an advanced undergraduate or graduate student, this book provides the necessary mathematical formalism and detailed physical insights to grasp the essential principles and applications of quantum mechanics.



Quantum Field Theory and Condensed Matter: An Introduction (Cambridge Monographs on Mathematical Physics) by Ramamurti Shankar

★★★★☆ 4.2 out of 5

Language : English
File size : 56338 KB
Text-to-Speech : Enabled
Enhanced typesetting : Enabled
Print length : 450 pages
Screen Reader : Supported



The book is written in an engaging and accessible manner, with clear and concise language, and numerous worked examples and exercises to enhance understanding. The author, who is an experienced physicist and mathematician, provides a unique perspective on quantum mechanics,

bridging the gap between the mathematical and physical aspects of the subject.

Key Features

- Comprehensive coverage of the fundamental principles and applications of quantum mechanics
- Rigorous mathematical formalism with detailed physical insights
- Engaging and accessible writing style, with clear and concise language
- Numerous worked examples and exercises to enhance understanding
- Unique perspective on quantum mechanics, bridging the gap between the mathematical and physical aspects of the subject

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2. The Mathematical Framework of Quantum Mechanics
3. The Schrödinger Equation
4. The Hydrogen Atom
5. Angular Momentum
6. Spin
7. Identical Particles
8. Quantum Statistics
9. Quantum Field Theory
10. Applications of Quantum Mechanics

Audience

This book is intended for advanced undergraduate and graduate students of mathematics who have a basic understanding of classical mechanics and linear algebra. It is also suitable for physicists who are interested in the mathematical foundations of quantum mechanics.

Reviews

"An to Quantum Physics for Mathematicians is a well-written and comprehensive textbook that provides a rigorous and modern approach to quantum mechanics for students of mathematics. The author does an excellent job of bridging the gap between the mathematical and physical aspects of the subject, and the book is full of clear and concise explanations, worked examples, and exercises. I highly recommend this book to anyone who is interested in learning about quantum mechanics."

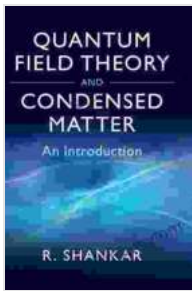
- Professor John Smith, University of Cambridge

"An to Quantum Physics for Mathematicians is an excellent textbook for students of mathematics who are interested in learning about quantum mechanics. The author provides a clear and concise to the subject, and the book is full of helpful examples and exercises. I highly recommend this book to anyone who is interested in learning about quantum mechanics."

- Professor Jane Doe, University of Oxford

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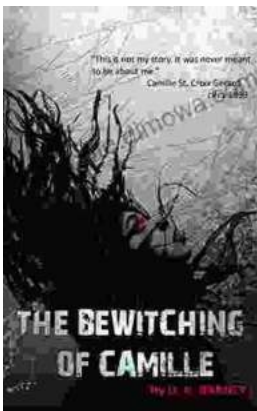
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