

<<量子力学原理>>

图书基本信息

书名：<<量子力学原理>>

13位ISBN编号：9787506282987

10位ISBN编号：7506282984

出版时间：2007-5

出版时间：北京世图

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页数：676

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内容概要

Review: 'An excellent text...The postulates of quantum mechanics and the mathematical underpinnings are discussed in a clear, succinct manner.' - American Scientist, from a review of the First Edition Book Description

Reviews from the First Edition: "An excellent text ... The postulates of quantum mechanics and the mathematical underpinnings are discussed in a clear, succinct manner." (American Scientist) "No matter how gently one introduces students to the concept of Dirac 's bras and kets, many are turned off. Shankar attacks the problem head-on in the first chapter, and in a very informal style suggests that there is nothing to be frightened of." (Physics Bulletin) "This massive text of 700 and odd pages has indeed an excellent get-up, is very verbal and expressive, and has extensively worked out calculational details---all just right for a first course. The style is conversational, more like a corridor talk or lecture notes, though arranged as a text. ... It would be particularly useful to beginning students and those in allied areas like quantum chemistry." (Mathematical Reviews)

R. Shankar has introduced major additions and updated key presentations in this second edition of Principles of Quantum Mechanics. New features of this innovative text include an entirely rewritten mathematical introduction, a discussion of Time-reversal invariance, and extensive coverage of a variety of path integrals and their applications. Additional highlights include:

- Clear, accessible treatment of underlying mathematics
- A review of Newtonian, Lagrangian, and Hamiltonian mechanics
- Student understanding of quantum theory is enhanced by separate treatment of mathematical theorems and physical postulates
- Unsurpassed coverage of path integrals and their relevance in contemporary physics

The requisite text for advanced undergraduate- and graduate-level students, Principles of Quantum Mechanics, Second Edition is fully referenced and is supported by many exercises and solutions. The book 's self-contained chapters also make it suitable for independent study as well as for courses in applied disciplines.

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作者简介

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书籍目录

1. Mathematical Introduction2. Review of Classical Mechanics3. All Is Not Well with Classical Mechanics4. The Postulates-a General Discussion5. Simple Problems in One Dimension6. The Classical Limit7. The Harmonica Oscillator8. The Path Integral Formulation of Quantum Theory9. The Heisenberg Uncertainty Relations10. Systems with N Degrees of Freedom11. Symmetries and Their Consequences12. Rotational Invariance and Angular Momentum13. The Hydrogen Atom14. Spin15. Addition of Angular Momenta16. Variational and WKB Methods17. Time-Independent Perturbation Theory18. Time-Dependent Perturbation Theory19. Scattering Theory20. The Dirac Equation21. Path Integrals-IIAppendixANSWERS TO SELECTED EXERCISESTABLE OF CONSTANTSINDEX

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