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Richard L. Liboff (2002). Introductory Quantum Mechanics (4th ed.). Addison-Wesley. ISBN 0-8053-8714-5. An earlier edition of the Kinetic Theory text was translated into Russian and an earlier edition of the Quantum Mechanics text was translated into Korean. The second ed. of the q.m. text has been translated into Persian. Selected articles. 1.

~~Richard Liboff — Wikipedia~~

Introductory Quantum Mechanics, 4th Edition. Dr. Richard Liboff received his Ph.D. in Physics from New York University in 1961 and was appointed to the Physics department at the same university upon graduation. He came to Cornell University in 1964, where he is presently a Full Professor of Applied Physics, Applied Math, and Electrical Engineering.

~~Liboff, Introductory Quantum Mechanics, 4th Edition | Pearson~~

This is one of the most honestly written book on Quantum Mechanics at introductory level. It does make any effort for clarifying difficulties, without 'cutting corners' along the (explanation) way(s). Liboff has truly done a wonderful Job (starting from the eighties - 1st Edition goes back to 1980!) to actually shape QM matter at undergraduate level.

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~~Introductory Quantum Mechanics:(International Edition ...~~

They are taken from Introductory Quantum Mechanics by Richard L. Liboff and from ones written by me. A list of the locally produced problem sets is below. Reading assignments follow the word 'Read'

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which are taken from Liboff, the Knight introductory text, or online (click on the link).

~~QM Homework — University of Richmond~~

Richard Liboff Quantum Mechanics Solution Liboff presents a steeper learning curve because it starts with the formalities of quantum mechanics, which is not quite easily understood at the beginning. I recommend using Griffiths as a first textbook, and use Liboff in a second course on quantum mechanics.

Careful And Detailed Explanations Of Challenging Concepts, And Comprehensive And Up-To-Date Coverage In This Best-Selling Quantum Mechanics Text, Continue To Set The Standard In Physics Education. In This New Edition, A New Chapter On The Revolutionary Topic Of Quantum Computing (Not Currently Covered In Any Other Text At This Level) And Thorough Updates To The Rest Of The Text Bring It Up To Date.

The new edition reflects the progress of physics in both esoteric and pragmatic directions. A complete and detailed presentation, with modern applications, problems, and examples. Annotation copyright Book

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News, Inc. Portland, Or.

Written in the spirit of Liboff's acclaimed text on Quantum Mechanics, this introduction to group theory offers an exceptionally clear presentation with a good sense of what to explain, which examples are most appropriate, and when to give a counter-example.

This book goes beyond the scope of other works in the field with its thorough treatment of applications in a wide variety of disciplines. The third edition features a new section on constants of motion and symmetry and a new appendix on the Lorentz-Legendre expansion.

This book presents a basic introduction to quantum mechanics. Depending on the choice of topics, it can be used for a one-semester or two-semester course. An attempt has been made to anticipate the conceptual problems students encounter when they first study quantum mechanics. Wherever possible, examples are given to illustrate the underlying physics associated with the mathematical equations of quantum mechanics. To this end, connections are made with corresponding phenomena in classical mechanics and electromagnetism. The problems at the end of each chapter are intended to help students master the course material and to explore more advanced topics. Many



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calculations exploit the extraordinary capabilities of computer programs such as Mathematica, MatLab, and Maple. Students are urged to use these programs, just as they had been urged to use calculators in the past. The treatment of various topics is rather complete, in that most steps in derivations are included. Several of the chapters go beyond what is traditionally covered in an introductory course. The goal of the presentation is to provide the students with a solid background in quantum mechanics.

The classic textbook on quantum mechanics from Nobel Prize-winning physicist P. J. E. Peebles This book explains the often counterintuitive physics of quantum mechanics, unlocking this key area of physics for students by enabling them to work through detailed applications of general concepts and ideas. P. J. E. Peebles states general principles first in terms of wave mechanics and then in the standard abstract linear space formalism. He offers a detailed discussion of measurement theory—an essential feature of quantum mechanics—and emphasizes the art of numerical estimates. Along the way, Peebles provides a wealth of physical examples together with numerous problems, some easy, some challenging, but all of them selected because they are physically interesting. Quantum Mechanics is an essential resource for advanced undergraduates and beginning

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graduate students in physics.

This innovative modern physics textbook is intended as a first introduction to quantum mechanics and its applications. Townsend's new text shuns the historical ordering that characterizes other so-called modern physics textbooks and applies a truly modern approach to this subject, starting instead with contemporary single-photon and single-atom interference experiments. The text progresses naturally from a thorough introduction to wave mechanics through applications of quantum mechanics to solid-state, nuclear, and particle physics, thereby including most of the topics normally presented in a modern physics course.

Balances mathematical discussions with physical discussions. \*  
Derivations are complete and the theory is applied whenever possible.  
\* Gasiorowicz is a world class researcher in quantum physics.

A thorough exposition of quantum computing and the underlying concepts of quantum physics, with explanations of the relevant mathematics and numerous examples. The combination of two of the twentieth century's most influential and revolutionary scientific theories, information theory and quantum mechanics, gave rise to a radically new view of

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computing and information. Quantum information processing explores the implications of using quantum mechanics instead of classical mechanics to model information and its processing. Quantum computing is not about changing the physical substrate on which computation is done from classical to quantum but about changing the notion of computation itself, at the most basic level. The fundamental unit of computation is no longer the bit but the quantum bit or qubit. This comprehensive introduction to the field offers a thorough exposition of quantum computing and the underlying concepts of quantum physics, explaining all the relevant mathematics and offering numerous examples. With its careful development of concepts and thorough explanations, the book makes quantum computing accessible to students and professionals in mathematics, computer science, and engineering. A reader with no prior knowledge of quantum physics (but with sufficient knowledge of linear algebra) will be able to gain a fluent understanding by working through the book.

The book is an introduction to quantum mechanics at a level suitable for the second year in a European university (junior or senior year in an American college). The matrix formulation of quantum mechanics is emphasized throughout, and the student is introduced to Dirac notation from the start. A number of major examples illustrate the workings of

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quantum mechanics. Several of these examples are taken from solid state physics, with the purpose of showing that quantum mechanics forms the common basis for understanding atoms, molecules and condensed matter. The book contains an introductory chapter which puts the concepts of quantum mechanics into a historical framework. The solid-state applications discussed in this text include the quantum Hall effect, spin waves, quantum wells and energy bands. Other examples feature the two-dimensional harmonic oscillator, coherent states, two-electron atoms, the ammonia molecule and the chemical bond. A large number of homework problems are included.

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