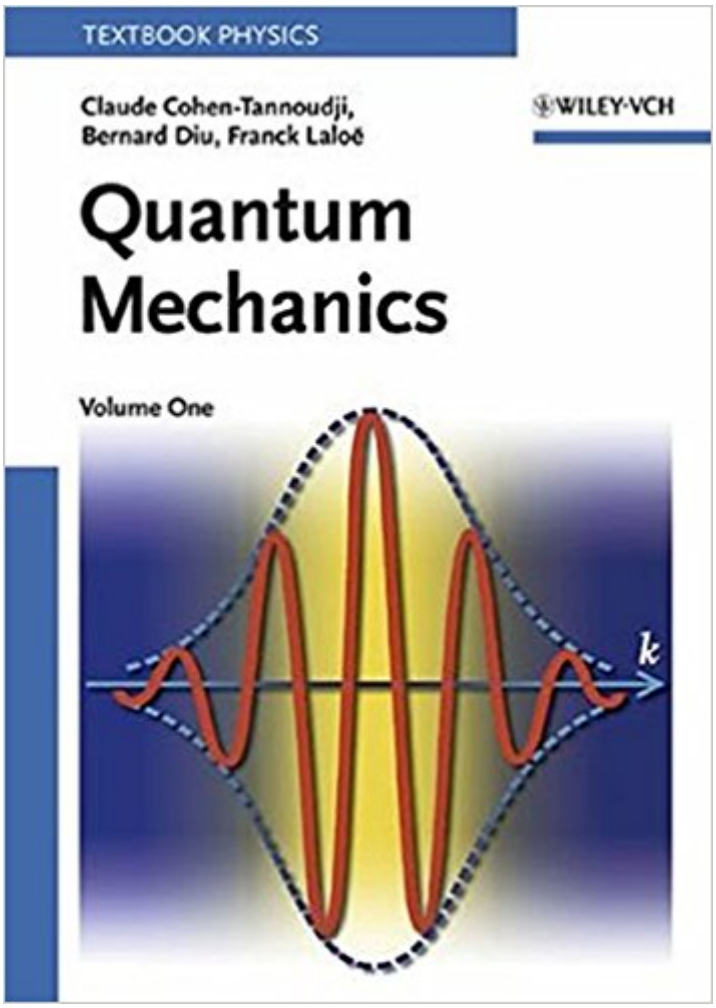
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Quantum Mechanics, Vol. 1



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Synopsis

Beginning students of quantum mechanics frequently experience difficulties separating essential underlying principles from the specific examples to which these principles have been historically applied. Nobel-Prize-winner Claude Cohen-Tannoudji and his colleagues have written this book to eliminate precisely these difficulties. Fourteen chapters provide a clarity of organization, careful attention to pedagogical details, and a wealth of topics and examples which make this work a textbook as well as a timeless reference, allowing to tailor courses to meet students' specific needs. Each chapter starts with a clear exposition of the problem which is then treated, and logically develops the physical and mathematical concept. These chapters emphasize the underlying principles of the material, undiluted by extensive references to applications and practical examples which are put into complementary sections. The book begins with a qualitative introduction to quantum mechanical ideas using simple optical analogies and continues with a systematic and thorough presentation of the mathematical tools and postulates of quantum mechanics as well as a discussion of their physical content. Applications follow, starting with the simplest ones like e.g. the harmonic oscillator, and becoming gradually more complicated (the hydrogen atom, approximation methods, etc.). The complementary sections each expand this basic knowledge, supplying a wide range of applications and related topics as well as detailed expositions of a large number of special problems and more advanced topics, integrated as an essential portion of the text.

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Customer Reviews

Claude Cohen-Tannoudji, born in Constantine (Algeria) in 1933, studied at the ÃƒÂ Ã Â¿Ã Â cole

Normale SupÃƒÂ Ã Â¿Ã Â rieure in Paris, where he received a postdoctoral lecture qualification in 1962. In 1973 he was accepted at the CollÃƒÂ Ã Â¿Ã Â ge de France, and in 1981 became a member of the Academy of Sciences. In 1997, Claude Cohen-Tannoudji was awarded the Nobel Prize in Physics for his research on laser cooling of neutral atoms (together with Steven Chu and William D. Phillips). The method is relevant for the development of precise atomic clocks, which are used for positioning and navigation. His is currently affiliated to the Laboratoire de Physique at the ÃƒÂ Ã Â¿Ã Â cole Normale SupÃƒÂ Ã Â¿Ã Â rieure. His textbook on quantum mechanics, written together with Bernard Diu und Franck LaloÃƒÂ Ã Â¿Ã Â , is one of the best-known timeless standard references in this field and is recommended on a regular basis by lecturers of undergraduate courses.

The actual content of this book aside (which I have mixed feelings about), the binding of this edition is absolutely awful. The printers have decided to use "Perfect Binding" -- which sounds great -- but is actually the cheapest and worst binding you can use for on-demand printing.Once you open the book to a page and try to lay it flat on a table, the pages separate from the glue and begin coming out almost immediately. I've already taped several pages back into my (3 month old) copy, and some classmates have had their books already completely separate in two. To make things even worse, you will not find any other (recently printed) versions of this book, as it's almost 40 years old and the publishers, Wiley-VCH, have decided to use this opportunity to price gouge graduate students.

This has been one of the best physics texts that I have worked out of. I am not sure how well it will do as a reference, but the presentations of the material are complete and orderly. I am not sure that there is a way to make this material easy to access, but the authors did a lot to keep the book from adding to the frustration. The structure of the text is used well by the authors. I found that while I would often reference other sections of the book for added depth, I could do so after finishing a section. Said another way, I did not have to read the book with each finger and a few scrap pieces of paper holding multiple locations in the text so that I could piece together what was presented in the book.

This book along with volume 2, are a truly wonderful addition to my little library of quantum mechanics books. These books are not, however, for someone who wants to learn quantum mechanics for the first time. On that front I would suggest Griffiths. This book, however is an

amazing reference book and higher level textbook.

everything was ok

Very good. Though it is old, it’s still clean and clear.

There’s been a page trying to fall out since I got it. Guess it was used though...

The best.

The content of the book is great. But when it reached me, and I just used it for several days, some pages are starting to peel off, I already have one peeled page, very poor quality. And I should say that the printing is also not very good. A good book should be with good quality, not to mention a so expensive one.

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