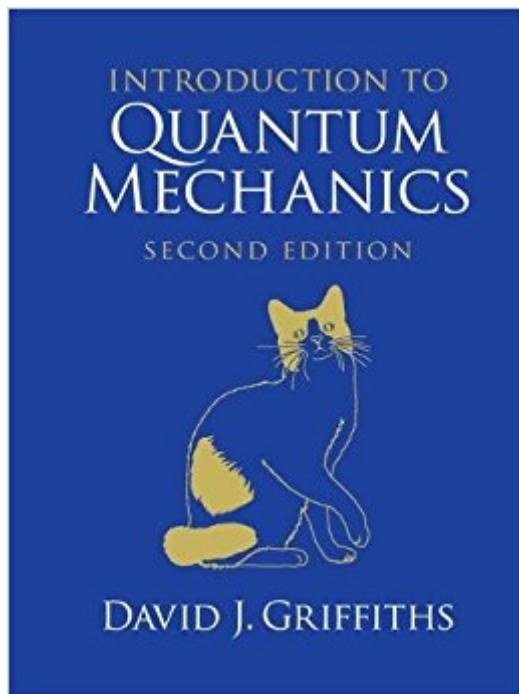


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Introduction To Quantum Mechanics



Synopsis

This bestselling undergraduate quantum mechanics textbook is now available in a re-issued, affordable edition from Cambridge University Press. The text first teaches students how to do quantum mechanics, and then provides them with a more insightful discussion of what it means. The author avoids the temptation to include every possible relevant topic, instead presenting students with material that they can easily focus on in a complete treatment with few distractions and diversions. Fundamental principles are covered, quantum theory is presented, and special techniques are developed for attacking realistic problems. The innovative two-part coverage is entertaining and informative, organizing topics under basic theory and assembling an arsenal of approximation schemes with illustrative applications linked closely to the text.

Book Information

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Customer Reviews

This text first teaches students how to do quantum mechanics, and then provides them with a more insightful discussion of what it means. Fundamental principles are covered, quantum theory is presented, and special techniques are developed for attacking realistic problems.

David J. Griffiths is a retired Professor from Reed College, Oregon, where he taught physics for over 30 years. He received his BA and PhD from Harvard University, where he studied elementary particle theory.

This is an *amazing* book. Unfortunately, the international edition I got had an error where all the important symbols and glyphs were misprinted (e.g. $\langle \hat{f} \rangle \neq \hat{f}'' | i\hbar \hat{f}' - \hat{f} \hat{\delta}/dx | \hat{f} \rangle \neq \hat{f}''$ >

becomes $\langle \hat{f} | \hat{A} | \hat{f} \rangle = \int \hat{f}^* \hat{A} \hat{f} dx$. This is a huge problem, and these misprints caused me to waste hours of my time solving problems that didn't actually make any sense because some of the symbols were altered. If you have any commitment to quantum physics beyond a passing interest, you're really gonna want the more expensive hardcover edition of the book, which is what I bought after a month of frustration with this version.

I love this book. I think it's by far the best introduction to Quantum Mechanics, for students who like to get their hands dirty fast. Basically, if you commit to do most of the exercises, this very thin book covers a ton of material. The discussion is very concise and clear, and some of the problems pretty interesting. Ideally, you could tackle this book as a undergrad sophomore year after you had some basic knowledge of E&M and mechanics, and move on to Sakurai for a more theoretical approach junior year.

This book is enlightening and just perfect. As an electrical engineer in my 5th year of college my background before this semester was quantum mechanics in a modern physics course. This semester I enrolled in a graduate level nano materials and devices class. This book was bought mid semester when the required textbook for the class (not this book) seemed to lack conceptual explanations and examples employing Dirac notation. Our class heavily required Dirac notation unless you wanted to solve 2D harmonic oscillator with non degenerate perturbation using integrals. This book by Griffiths is quite possibly the most satisfying book I have studied in college. I do read all of the books for my classes so I am comparing this book to about twenty texts in engineering. It really is a clear one.

This is an excellent textbook to get started with quantum mechanics, especially if your self-learning. The author writes in a very clear and informative prose by keeping concepts and theories short but detailed. The problems are useful and solutions to the problems are easy to find via the internet or student solutions manual. If you're a graduate student conducting research in a field in which QM concepts and terms are readily used, but you do not have an undergraduate background in QM from physics or chemistry (i.e. materials science and engineering); quickly working through this textbook will bring you up-to-speed. As the title states this is an introductory text and omission of advanced topics and even some concepts which would be considered as essential, might be missing. This is where a book like R. Shankar's QM book might be better suited. Finally, the price for the economy edition makes it an affordable buy for your bookshelf, although the appendix is not included.

Great book to read (so far). The book was written in a really "human" style, I mean it naturally addresses motivation and advances on it. I am new to the topic so I can not justify the content, this review is for writing style only.

about book: its really simple and self contained, excellent for self teaching, great for know how to use quantic mechanics but not for know the fundamentals of the theory.about dealer: delivery was really fast, the description say it was new but the book arrived a little bit damaged and obviously wasn't the book in the image (because its paperback) was the Indian version (but it's equally nice)

This book is easily readable and that is probably the most important fact. If you are absolutely committed to an indepth study of quantum mechanics, perhaps Shankar might be a little better. This book, however, is enjoyable to read.In my opinion this book focuses a little to much on the traditional method of teaching QM and doesn't talk enough about density matrices and the more modern algebraic and geometric ways of thinking about QM, but that is, in part, what makes it a bit more readable than others. This is an excellent book with lots of great info, but a serious student will definitely need another general QM book before digging into a sub-field.I am personally happy I started with this before getting into Sakurai and Shankar, but if you have a strong background in modern algebra and classical hamiltonian mechanics, Shankar might be a good start.

This is a very good book introducing the reader to the wave mechanics approach to quantum mechanics. However, for those who want to undertake the study of quantum mechanics at a graduate level and the study of quantum field theories, I would suggest to learn the Hilbert space approach to quantum mechanics. For this purpose, *Principles of Quantum Mechanics* by Shankar would be a very good place to start after Griffiths' introduction. For a more advanced treatment, you can look at Weinberg's *Lectures on Quantum Mechanics*.

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