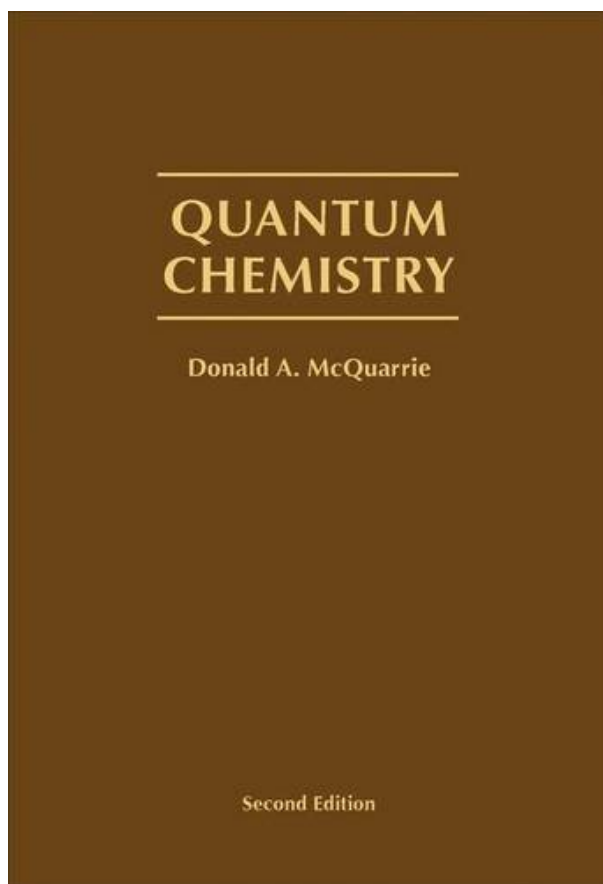


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This text is a bargain in more ways than one. --Journal of the American Chemical Society

The strong points of the book are what one might expect from McQuarrie: very clear mathematical derivations and excellent problems. --David Case, UC Davis

About the Author

As the author of landmark chemistry books and textbooks, Donald McQuarrie's name is synonymous with excellence in chemical education. From his classic text on Statistical Mechanics to his recent quantum-first tour de force on Physical Chemistry, McQuarrie's best selling textbooks are highly acclaimed by the chemistry community. McQuarrie received his PhD from the University of Oregon, and is Professor Emeritus from the Department of Chemistry at the University of California, Davis. He makes his home at The Sea Ranch in California with his wife Carole, where he continues to write.

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After twenty-four years in print, Don McQuarrie has now updated his landmark "Quantum Chemistry". Perhaps the biggest change in the years since the first edition is the proliferation of computational chemistry programs that calculate molecular properties. McQuarrie has presented step-by-step SCF calculations of a helium atom in Chapter 9 and a hydrogen molecule in Chapter 10, in addition to including an entire chapter on the Hartree-Fock method and post-Hartree-Fock methods for the calculation of molecular properties. The book also uses problems to encourage the use of an invaluable National Institute of Science and Technology (NIST) website that lists experimental data and the results of various ab initio calculations for hundreds of molecules.

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By Amazon Customer

This was my quantum chemistry textbook at the university and I've recently returned to it for review. It is a remarkably straightforward presentation of quantum mechanics and quantum chemistry. It is rigorous and

thorough but very well organized and easy to follow. Terms are explained clearly and the examples demonstrate the application of the basic principles very well. One reason I am impressed with this text is because of the disorganized and impenetrable presentation of identical material I have seen in other texts. Quantum mechanics is not simple but it need not be inaccessible. Once you have a basic understanding of the vocabulary and mathematical tools involved it's actually not that difficult. But you need a good presentation, which is what this text provides.

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I needed this book for a class i a taking but it is definitely not the best book to learn quantum chemistry from. It constantly skips important math steps in all of the example problems, so if you don't have fresh knowledge of calculus or multivariable calculus this is not the book for you. On the bright side each chapter ends with a math chapter is needed to understand other parts of the book so you're not left completely in the dark.

11 of 13 people found the following review helpful.

decent book for intro to quantum

By chemstudent

after a semester of suffering through atkins physical chemistry 9th edition for thermodynamics, I really like the fact that my instructor decided to use quantum chemistry written by mcquarrie for the quantum part of pchem. Mcquarrie definitely is a better writer than atkins, whose writing/explanations leaves students more confused with his habit of pulling equations out of thin air with no explanation and "it is what it is" attitude.

McQuarrie's book states that it was written in such a way that you should do alright with just a basic level of calculus. While that might be true, I think you'd have to be pretty good at math in general to do well in pchem. For an intro quantum book, I think mcquarrie's is the best option out there and it's no wonder it's been around for 20+ years.

The book was also written with latex so the writing is very neat. The book cover is also very conservative and professional looking, resembling that of a reference book that you might keep on your shelf one day.

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