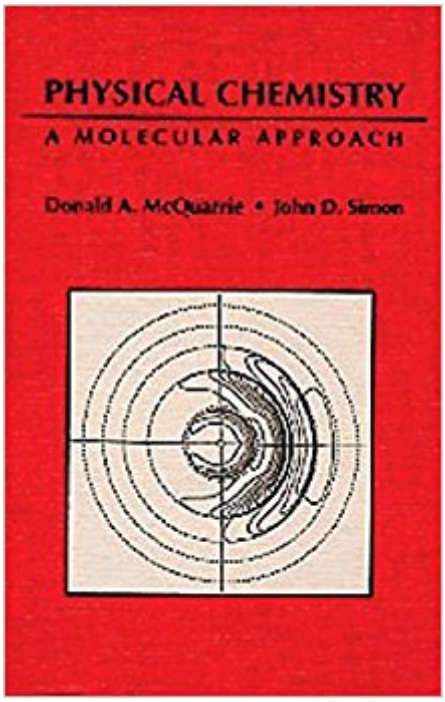
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Physical Chemistry: A Molecular Approach



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Synopsis

As the first modern physical chemistry textbook to cover quantum mechanics before thermodynamics and kinetics, this book provides a contemporary approach to the study of physical chemistry. By beginning with quantum chemistry, students will learn the fundamental principles upon which all modern physical chemistry is built. The text includes a special set of "MathChapters" to review and summarize the mathematical tools required to master the material Thermodynamics is simultaneously taught from a bulk and microscopic viewpoint that enables the student to understand how bulk properties of materials are related to the properties of individual constituent molecules. This new text includes a variety of modern research topics in physical chemistry as well as hundreds of worked problems and examples.

Book Information

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Average Customer Review: 4.2 out of 5 stars 98 customer reviews

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Customer Reviews

Pedagogically pleasing, as it builds up physical chemistry from considerations of atoms to systems containing numerous molecules. --ChoiceIt is a superb book, to be greatly appreciated and treasured by generations of students to come. --Richard Zare, Stanford UniversityAn excellent modern physical chemistry course that should inspire us to rethink our curriculum. --Journal of Chemical Education

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.Ã Â John D. Simon became the first George B. Geller Professor of Chemistry at Duke University in 1998. He is currently Chair Chemistry Department at Duke and a faculty member of the Biochemistry, and Ophthalmology Departments of the Duke Medical Center. John graduated from Williams College in 1979 with a B.A. in Chemistry and received his Ph.D. from Harvard University in 1983. After a postdoctoral fellowship with Professor Mostafa El-Sayed at UCLA, John joined the faculty of the Department of Chemistry at UCSD in 1985.

Some of the information is poorly presented at times (specifically the math sections trying to jog up understanding of concepts). Otherwise a good text for everything required by physical chemistry. Also author died, no more editions will come out unless a new author takes over.

School book. Interesting concept.

I purchased this book because it was the required textbook for my Physical Chemistry class, and I am enjoying the book so far. The text gives a clear and readable description of the quantum chemistry as it relates to simple atoms and molecules. It has all of the math in separate chapters right before the chemistry chapters using the math, so if you are strong in math you can skip the chapters introducing the mathematics and if you need to learn the math, it is right there. Also, the problems at the end of each chapter are interesting and tie in other aspects of chemistry.

Fantastic introduction to quantum mechanics and how it relates to chemical systems and spectroscopy. The text presents the material clearly with excellent graphs and figures to illustrate the concepts. I think it's real strength comes from the problems, however, as they are designed to walk you through the important derivations to highlight essential ideas.

Probably the best book on physical chemistry ever. Really complete, and with reasonable undergrad level of theory, with the concepts well balanced with the mathematics behind. Big Pro: Special chapters on mathematics. Cons: a bit weak on chemical kinetics (as every not dedicated book on this theme), electrochemistry and phase equilibria.

As far as scientific texts go, it’s an alright book. Not too complex, but without necessarily defining all of the acronyms and Greek letters it uses. This makes it more difficult than it needs to be, at points, if you forget what it means, as you’ll have to look it up in other resources.

I only took the first semester of P-chem, and I thought the first few weeks were bearable, but the rest was a nightmare. This book was not very clear to me. The same variables over and over again, although they all seem to mean different things; and variables are rarely defined.P-chem II looks like a more interesting subject, covering thermo and kinematics and things. But more power to you if quantum mechanics is your thing

This is a dense textbook that really goes through everything you need to know for a quantum mechanics AND thermodynamics course. It’s a little dated in its language but if you’ve gone this far in Chemistry, you’ll have no problems understanding it. No frills though. The figures, graphs, and charts are not in color if that matters to you.

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