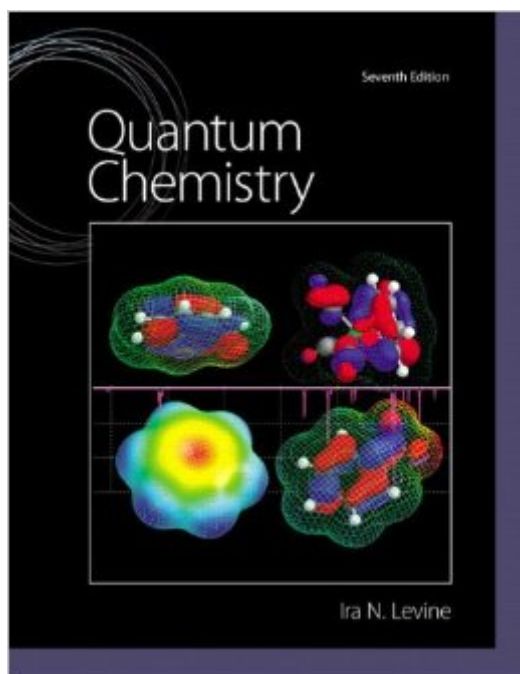


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Quantum Chemistry (7th Edition)



Synopsis

Known for its solid presentation of mathematics, this bestseller is a rigorous but accessible introduction to both quantum chemistry and the math needed to master it. Quantum Chemistry, Seventh Edition covers quantum mechanics, atomic structure, and molecular electronic structure, and provides a thorough, unintimidating treatment of operators, differential equations, simultaneous linear equations, and other areas of required math. Practical for readers in all branches of chemistry, the new edition reflects the latest quantum chemistry research and methods of computational chemistry, and clearly demonstrates the usefulness and limitations of current quantum-mechanical methods for the calculation of molecular properties.

Book Information

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Customer Reviews

This is one of the best books on the subject. It is is very didactic. This is a Quantum Chemistry book. I have seen Physicists coming here to depreciate this book, because they think this is a book for them. This is not. Physicists, go Cohen, Griffiths, and other Quantum Mechanics books. This one is for Chemists who want to deal theoretically with atoms and molecules, and to prepare Chemists for the next step, which is programming, for what they can be prepared posteriorly through Szabo and Ostlund, Modern Quantum Chemistry excellent book. This Levine book is brilliant.

It was with great sadness that I learned of the passing of Professor Ira N. Levine last month (December 2015). I was among the first students in his debut class in quantum chemistry back in the late 1960's. We used the zeroth edition of this book as it was being written, delivered to the

students - in mimeograph form - one chapter at a time by Prof. Levine. As a hobby, I've purchased and read subsequent editions over the years even though my professional career took me into engineering rather than theoretical chemistry. The book has remained at the pinnacle of QC texts for advanced undergraduate, graduate, and self-study use. This 7th edition is no exception. Here's why: (1) it covers the necessary background mathematics in an integrated, as-needed manner, (2) all topics are treated with an appropriate "goldilocks" degree of rigor, neither overly formalized nor overly simplified, (3) the text is supplemented by excellent - sometimes quite challenging - problem sets, (4) numerous footnotes to the literature are given throughout the book for students who want to chase down subtle points, and (5) modern topics in QC, such as computational electron-correlation and molecular dynamics methods, are fully discussed. Overall, the text is written with great clarity and precision. This is not a textbook of quantum physics generally, but of quantum chemistry specifically. There are the obligatory explanations about the counter-intuitive nature of quantum mechanics along with various historical digressions about the development of non-classical physics. But this is a chemistry book. And it's among the best.

This is one of the best books on the subject. It is very didactic. This is a Quantum Chemistry book. I have seen Physicists coming here to depreciate this book, because they think this is a book for them. This is not. Physicists, go Cohen, Griffiths, and other Quantum Mechanics books. This one is for Chemists who want to deal theoretically with atoms and molecules, and to prepare Chemists for the next step, which is programming, for what they can be prepared posteriorly through Szabo and Ostlund, Modern Quantum Chemistry excellent book. This Levine book is brilliant.

I have gone through many books on quantum and this one is by far my favorite. The explanations are clear, derivations are concise, easy to follow and straightforward.

Levine's Quantum Chemistry is one of the best books to understand quantum chemistry. It provides a rigorous foundation for students pursuing a career in theoretical chemistry. Once a student finishes reading this book, he or she can quickly go to the more specialized books like Szabo and Ostlund's Modern Quantum Chemistry.

Just what I expected. A very fine conceptual and mathematical development of the subject. If the student is unfamiliar with quantum chemistry and requires a reliable tutor to shape his skills meticulously, he/she should acquire the book.

This is such a good book for whoever is studying quantum since it explains step by step every single concept. Fast Shipping Nice packaging

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