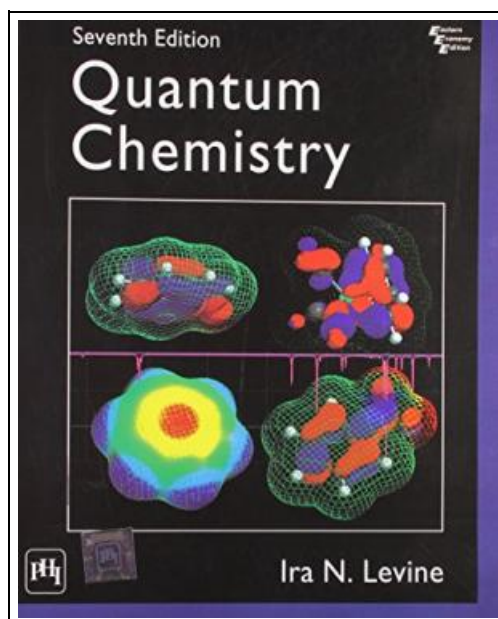


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PHI Learning 0. Softcover. Book Condition: New. 5th or later edition. This book is intended for first-year postgraduate and advanced undergraduate courses in quantum chemistry. This text provides students with an in-depth treatment of quantum chemistry, and enables them to understand the basic principles. The limited mathematics background of many chemistry students is taken into account, and reviews of necessary mathematics (such as complex numbers, differential equations, operators, and vectors) are included. Derivations are presented in full, step-by-step detail so that students at all levels can easily follow and understand. A rich variety of homework problems (both quantitative and conceptual) is given for each chapter. NEW TO THIS EDITION The following improvements were made to the seventh edition: ? Thorough updates reflect the latest quantum chemistry research and methods of computational chemistry. ? New problems have been added to most chapters, including additional computational problems. ? Explanations have been revised. ? The text is enlivened by references to modern research in quantum mechanics such as the Ozawa reformulation of the uncertainty principle and the observation of interference effects with very large molecules. CONTENTS: Preface 1. The Schrödinger Equation 2. The Particle in a Box 3. Operators 4. The Harmonic Oscillator 5. Angular Momentum 6. The Hydrogen Atom 7. Theorems of Quantum Mechanics 8. The Variation Method 9. Perturbation Theory 10. Electron Spin and the Spin-Statistics Theorem 11. Many-Electron Atoms 12. Molecular Symmetry 13. Electronic Structure of Diatomic Molecules 14. Theorems of Molecular Quantum Mechanics 15. Molecular Electronic Structure 16. Electron-Correlation Methods 17. Semiempirical and Molecular-Mechanics Treatments of Molecules Appendix Bibliography Answers to Selected Problems Index Printed Pages: 712.



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