

## **Quantum Chemistry and Spectroscopy**

Thomas Engel, Philip Reid



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Quantum Chemistry and Spectroscopy is a groundbreaking new text that explains core topics in depth with a focus on basic principles, applications, and modern research. The authors hone in on key concepts and cover them thoroughly and in detail – as opposed to the general, encyclopedic approach competing textbooks take. Excessive math formalism is avoided to keep readers focused on the most important concepts and to provide greater clarity. Applications woven throughout each chapter demonstrate to readers how chemical theories are used to solve real-world chemical problems in biology, environmental science, and material science. Extensive coverage of modern research and new developments in the field get readers excited about this dynamic branch of science. Quantum Chemistry and Spectroscopy is a split text (from Physical Chemistry) and is organized to facilitate "Quantum first" courses. The online Chemistry Place for Physical Chemistry features interactive problems and simulations that reinforce and build upon material included in the book. From Classical to Quantum Mechanics; The Schrödinger Equation; The Quantum Mechanical Postulates; Using Quantum Mechanics on Simple Systems; The Particle in the Box and the Real World; Commuting and Noncommuting Operators and the Surprising Consequences of Entanglement; A Quantum Mechanical Model for the Vibration and Rotation of Molecules; The Vibrational and Rotational Spectroscopy of Diatomic Molecules; The Hydrogen Atom; Many-Electron Atoms; Examples of Spectroscopy Involving Atoms; Chemical Bonding in H<sup>+</sup>, and H<sub>2</sub>; Chemical Bonding in Diatomic Molecules; Molecular Structure and Energy Levels for Polyatomic Molecules; Electronic Spectroscopy; Computational Chemistry; Molecular Symmetry; Nuclear Magnetic Resonance Spectroscopy For all readers interested in learning the core topics of quantum chemistry.



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