



Quantum Mechanics for Chemists: Rsc

By David O Hayward

Royal Society of Chemistry. Paperback. Book Condition: New. Paperback. 192 pages. Dimensions: 9.5in. x 7.4in. x 0.6in. Quantum Mechanics for Chemists is designed to provide chemistry undergraduates with a basic understanding of the principles of quantum mechanics. The text assumes some knowledge of chemical bonding and a familiarity with the qualitative aspects of molecular orbitals in molecules such as butadiene and benzene. Thus it is intended to follow a basic course in organic and inorganic chemistry. The approach is rather different from that adopted in most books on quantum chemistry in that the Schrödinger wave equation is introduced at a fairly late stage, after students have become familiar with the application of de Broglie-type wavefunctions to free particles and particles in a box. Likewise, the Hamiltonian operator and the concept of eigenfunctions and eigenvalues are not introduced until the last two chapters of the book, where approximate solutions to the wave equation for many-electron atoms and molecules are discussed. In this way, students receive a gradual introduction to the basic concepts of quantum mechanics. Ideal for the needs of undergraduate chemistry students, Tutorial Chemistry Texts is a major series consisting of short, single topic or modular texts concentrating on the fundamental...



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