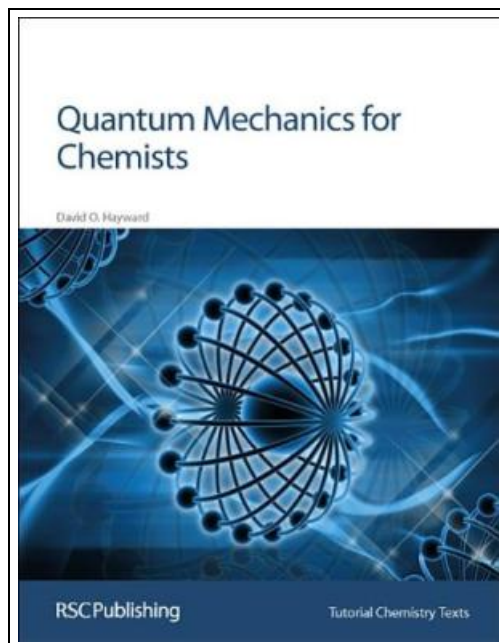


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Royal Society Of Chemistry, United Kingdom, 2002. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Quantum Mechanics for Chemists is designed to provide chemistry undergraduates with a basic understanding 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/or 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 areas of chemistry taught in undergraduate science courses. Each book provides a concise account of the basic principles underlying a given subject, embodying an independent-learning philosophy and including worked examples.

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