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Integrating many new computer-oriented examples and problems throughout, this modern introduction to quantum chemistry covers quantum mechanics, atomic structure, and molecular electronics, and clearly demonstrates the usefulness and limitations of current quantum-mechanical methods for the calculation of molecular properties."A very useful addition to the chemical literature." — Journal of the American Chemical Society. Designed to aid students and teachers in advanced physical chemistry, spectroscopy, or quantum chemistry courses, this carefully written book is unique in the variety of problems covered and the detail of the solutions provided. Although the mathematical basis of quantum chemistry had been laid by Schrödinger in 1926, it is generally accepted that the first true calculation in quantum chemistry was that of the German physicists Walter Heitler and Fritz London on the hydrogen (H_2) molecule in 1927. A Brief Review of Elementary Quantum Chemistry C. David Sherrill School of Chemistry and Biochemistry Georgia Institute of Technology Last Revised on 27 January 2001