



# Quantum Chemistry Student Edition

*John Lowe*

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## **Quantum Chemistry Student Edition** John Lowe

Quantum Chemistry: Student Edition emphasizes the ground state molecular orbital theory of molecules.

This book contains 14 chapters that also cover some aspects of quantum mechanics theory.

The opening chapters deal with some simple, but important, particle systems, allowing the introduction of many basic concepts and definitions of classical physics. The subsequent chapters consider the simple harmonic oscillator, the hydrogenlike ion, and many-electron atoms. Considerable chapters are devoted to the development of methods for performing linear variational calculations. These methods require solving a determinantal equation for its roots, and then solving a set of simultaneous homogeneous equations for coefficients. The closing chapters explore the concept and application of group theory and the qualitative molecular orbital theory.

This book is of great value to organic, inorganic, and physical chemists, as well as to undergraduate or graduate chemistry students.

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