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# **Quantum Chemistry, Second Edition**

John P. Lowe



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#### Quantum Chemistry, Second Edition John P. Lowe

Praised for its appealing writing style and clear pedagogy, Lowe's **Quantum Chemistry** is now available in its Second Edition as a text for senior undergraduate- and graduate-level chemistry students. The book assumes little mathematical or physical sophistication and emphasizes an understanding of the techniques and results of quantum chemistry, thus enabling students to comprehend much of the current chemical literature in which quantum chemical methods or concepts are used as tools. The book begins with a six-chapter introduction of standard one-dimensional systems, the hydrogen atom, many-electron atoms, and principles of quantum mechanics. It then provides thorough treatments of variation and perturbation methods, group theory, ab initio theory, Huckel and extended Huckel methods, qualitative MO theory, and MO theory of periodic systems. Chapters are completed with exercises to facilitate self-study. Solutions to selected exercises are included.

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