



Orbitals in Chemistry: A Modern Guide for Students

By Victor M. S. Gil

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This text presents a unified and up-to-date discussion of the role of atomic and molecular orbitals in chemistry, from the quantum mechanical foundations to recent developments and applications. Abundantly illustrated, the volume critically establishes the relationships between the more formal quantum mechanical formalisms and the traditional chemical descriptions of chemical bonding. It is mathematically less demanding than most traditional quantum chemistry texts, yet still retains clarity and rigor. This volume is an ideal textbook for any course in which chemistry is a significant part.

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Editorial Review

Review

"Orbitals in Chemistry is a deftly written book. In smooth-flowing easy-to-read prose, Gill provides a very brief introduction to quantum mechanics, an overview of the ideas underlying atomic and molecular orbitals, and discussions of the applications of orbitals to chemical bonding and transition metal complexes, and solids...A major and unique strength of the book is reference to 85 papers on teaching, 73 of them from this Journal. These references and the associated discussions highlight subtle issues and common misunderstandings associated with quantum mechanics and the orbital concept. These references could easily be used to develop student projects to enhance understanding." Journal of Chemical Education Vol. 78

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