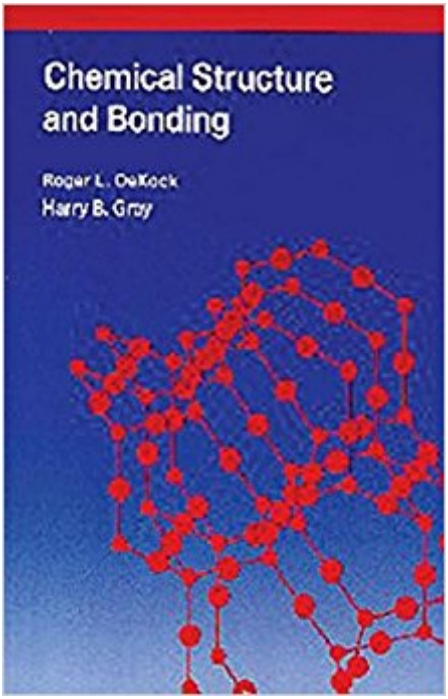
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Chemical Structure And Bonding



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Synopsis

Designed for use in inorganic, physical, and quantum chemistry courses, this textbook includes numerous questions and problems at the end of each chapter and an Appendix with answers to most of the problems.

Book Information

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Customer Reviews

ROGER L. DEKOCK,Calvin College, USA HARRY B. GRAY, California Institute of Technology, USA

This book starts with the fundamentals of atomic structure and then builds on them until molecular orbital theory. Molecular orbital theory is developed for both organic and inorganic substances. Molecular orbital theory is used to explain the electronic structure of molecules, which is, of course, of fundamental importance to the chemist.Bonding theories for organic and inorganic models are developed and a brief treatment is given on the solid state at the end of the book.This is a book that I often use as a reference. This book is versatile enough to refresh the chemist about bonding ideas in both organic and inorganic areas. It is not a particularly advanced book, but it was a pleasure for me to read and a good book to remind me of the basics when I need it.

Excellent Book! Covers the issues very well. I still use it as a guide when I need to refresh.

I recently used this book in an introductory class in graduate school and found it to be a decent

textbook. It has some errors and certain things could have been explained in a clearer fashion but all in all I thought it did a decent job. The problems offered in the book are very easy and the answers are at the back which I personally found useful for studying.

This book was selected as one of the few textbooks for my undergraduate inorganic chemistry course. It discusses the concepts of atomic structure, atomic and molecular properties, molecular orbital theory, electronic structures, and frontier orbital theory in a very understandable and succinct way. The concepts and relationship between structure and bonding is built up progressively throughout the text. The fundamental concepts of bonding ideas that lead to the development of MO theory is discussed in a very logical manner, with applications to transition-metal complexes, solids, and liquids. Every chemistry student shall find this text very useful in explaining the essence of chemical bonding. It explains topics and aspects of chemical bonding about which general chemistry textbooks tell you not to worry about for the moment.

one of the best books in structure and bonding. the section on valence bond theory and photoelectronic spectra is excellent.. the writing is highly understandable and rarely confusing. highly recommended supplement for any inorganic chemistrytextbook.

The text is well written and racional. It gives a clear view about how the structure of the aotms is, and, how the bonding between atoms process. On quantum mechanics topics I felt it was rather expositive than explanatory...

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