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Chemical Bonds



Synopsis

Designed for science students, this book provides an introduction to atomic and molecular structure and bonding. Following two initial chapters on atomic structure and the electronic properties of atoms and molecules, the book is largely organized according to molecule size, moving from an examination of diatomic molecules in Chapter Three to the infinitely large atomic clusters in Chapter Six.

Book Information

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Customer Reviews

This review compares the five major SPECIALTY texts purchased by our Library Clients in the area of Molecular Bonding and Geometry. These five represent the most frequently acquired titles by university and graduate libraries, not public libraries. These exclude both general chem and p chem texts and small journal monographs on one narrow area. We recommend all five of these to our library buyers for different reasons. First, if you're studying bonding and molecular geometry, don't feel like you are dumb if it seems like a very tough subject. First, the field is rapidly changing from the old thermodynamic models to quantum models, and THE MAJORITY OF THIS FIELD IS NOT YET WELL UNDERSTOOD, EVEN BY EXPERTS. If you started learning shells and basic molecular geometry, and suddenly were asked to throw all that out and think in terms of probability sims and orbital clouds and shapes ala Schrodinger, you get my point! Most of the old "taxonomies" of chemical geometry are now being redone in this light, and none are near complete. We only understand the tip of the iceberg in how structure relates to FUNCTION today. When an inventor

makes a great discovery and has to describe it to colleagues, you often hear things like the word "intuition." Translate that as decades of experience that led the investigator to correctly "surmise" structure from function or vice versa, as the full functional complexity of bonding geometries are still even beyond supercomputing, although we're trying. If the investigator "saw" or deduced a reaction product or structure, it often comes down to a non-database function called experience.

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