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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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Chemical Engineering Design and Analysis: An Introduction (Cambridge Series in Chemical Engineering)
Analysis of Engineering Design Studies for Demilitarization of Assembled Chemical Weapons at Pueblo Chemical Depot (The Compass series)
Fluid Mechanics for Chemical Engineers (McGraw-Hill Chemical Engineering)
Healing Severe Chemical and EMF Sensitivity: Our Breakthrough Cure for Multiple Chemical Sensitivities (MCS) and Electro-hypersensitivity (EHS)
Applied Parameter Estimation for Chemical Engineers (Chemical Industries)
Kinetics of Chemical Processes: Butterworth-Heinemann Series in Chemical Engineering
Contemporary Theory of Chemical Isomerism (Understanding Chemical Reactivity)
Analysis, Synthesis and Design of Chemical Processes (4th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences)
4th (fourth) Edition by Turton, Richard, Bailie, Richard, Whiting, Wallace B., Shaei [2012]
The Principles of Chemical Equilibrium: With Applications in Chemistry and Chemical Engineering
Handbook of Chemical Compound Data for Process Safety (Library of Physico-Chemical Property Data)
Advances in Chemical Physics, Volume 15: Stochastic Processes in Chemical Physics (v. 15)
Chemical Dynamics at Low Temperatures (Advances in Chemical Physics)
Investing: guide for beginners: understanding futures,options trading,stocks,bonds,bitcoins (finance,investing,retirement,adults,children,lifetime,income,business,budgeting,accounting, ... Business & Money, Budgeting & Money)
Breaking the Bonds of Irritable Bowel Syndrome: A Psychological Approach to Regaining Control of Your Life
Building Bonds: Kiss of Leather Book 1
Unbreakable Stories: Lucas (Unbreakable Bonds Series)
Fifty Shades of Narcissism: Your Brain on Love, Sex and the Narcissist: The Biochemical Bonds That Create an Addiction to Our Abusers
Bonds of Silk: The Human Factor in the British Administration of the Sudan (African Series)
Bonds of Alliance: Indigenous and Atlantic Slaveries in New France (Published for the Omohundro Institute of Early American History and Culture, Williamsburg, Virginia)

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