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**Sinopsis**

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This book is a presentation of a qualitative theory of chemical bonding stressing the physical processes which occur on bond formation. It differs from most (if not all) other books in that it does not seek to "rationalize" the phenomena of bonding by a series of mnemonic rules. A principal feature is a unified and consistent treatment across all types of bonding in organic, physical and inorganic chemistry.

**Contents:**

How Science Deals with Complex Problems  
What We Know About Atoms and Molecules  
A Strategy for Electronic Structure  
The Pauli Principle and Orbitals  
A Model Polyatomic: Methane  
Lone Pairs of Electrons  
Organic Molecules with Multiple Bonds  
Molecular Symmetry  
Diatomics with Multiple Bonds  
Dative Bonds  
Delocalised Electronic Substructures: Aromaticity  
Organic and Inorganic Chemistry  
Further Down the Periodic Table  
Reconsidering Empirical Rules  
Mavericks and Other Lawbreakers  
The Transition Elements  
Omissions and Conclusions