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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