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- Fundamentals of Wave Mechanics
- Wave Mechanical Model of Atom
- Atomic Nucleus and its Structure
- Radioactivity and Radiation Chemistry
- Nuclear Reaction
- Periodic Table and Periodic Trends of Different Properties of Elements

Volume 2 Third Edition

- Introduction to Chemical Bonding and Theories of Covalence—Valence Bond Theory (VBT) and Molecular Orbital Theory (MOT)
- Covalent Compounds—Characteristics, Structure and Reactivity
- Hydrogen Bonding and Other Weaker Chemical Forces Including Supramolecular Systems

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- Structure, Bonding and Properties of Ionic Solids and Solid State Chemistry
- Bonding in Metals and Metal Clusters—Electrical Conductivities of Solids: Semiconductors and Superconductors
- Acids and Bases and Ionic Equilibria in Aqueous Solutions

Volume 3B Third Edition

- Nonaqueous Solvents
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- Metallurgy: Principles, Pyrometallurgy *vs* Hydrometallurgy—Extraction and Purification of Metals, Physicochemical Methods of Separation of Metals

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- Steroichemistry and Isomerism
- Bonding Theories (VBT, CFIT, LFT and MOT)
- Application of CFT
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- Magnetochemistry and Magnetic Properties of Metal Complexes
- Structure, Bonding and Reactivities of Organometallics including Metal Carbonyls and Nitrosyls
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Volume 7 First Edition

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