Group Theory and Its Applications in Chemistry

A. Salahudding. Krishnan Kunju

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This book presents the basic principles of group theory and their applications in chemical theories. First, it discusses the symmetry elements, point groups and construction of character tables for different point groups. The book then describes the concept of hybridization to explain the shapes of molecules and analyzes the character tables to predict infrared and Raman active vibrational modes of molecules. The book also presents in detail molecular orbital theory and methods for construction of molecular orbitals of molecules with different geometries. In addition, it elaborates techniques of group theory to interpret bonding in transition metal complexes and their electronic spectra. Finally, the book describes the crystalline point groups, Bravais lattices and space groups, as well as the Woodward–Hoffmann rules to determine the pathways of electrocyclic and cycloaddition reactions.

The book is designed for the senior undergraduate students and postgraduate students of chemistry. The researchers in the field of group theory will also find this book useful.

KEY FEATURES
• Provides mathematical foundations to understand group theory.
• Includes several examples to illustrate applications of group theory.
• Presents chapter-end exercises to help the students check their understanding of the subject matter.

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