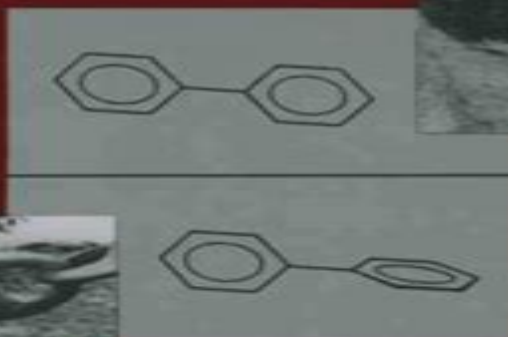


Symmetry through the Eyes of a Chemist

**Second
Edition**



István Hargittai
Magdolna Hargittai

Symmetry Through The Eyes Of A Chemist

D. J. Klein, Nenad Trinajstić



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research and learning As we noted in the Prefaces to the first and second editions our book surveys chemistry from the point of view of symmetry We present many examples from chemistry as well as from other fields to emphasize the unifying nature of the symmetry concept Our aim has been to provide aesthetic pleasure in addition to learning experience In our first Preface we paid tribute to two books in particular from which we learned a great deal they have influenced significantly our approach to the subject matter of our book They are Weyl's classic *Symmetry* and Shubnikov and Koptsik's *Symmetry in Science and Art* The structure of our book has not changed Following the Introduction Chapter 1 Chapter 2 presents the simplest symmetries using chemical and non chemical examples Molecular geometry is discussed in Chapter 3 The next four chapters present group theoretical methods Chapter 4 and based on them discussions of molecular vibrations Chapter 5 electronic structures Chapter 6 and chemical reactions Chapter 7 For the last two chapters we return to a qualitative treatment and introduce space group symmetries Chapter 8 concluding with crystal structures Chapter 9 For the third edition we have further revised and streamlined our text and renewed the illustrative material

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valence bond theory In this timely book leading researchers describe valence bond theory and its applications to a wide range of chemical problems The opening articles provide background materials and a historical perspective of the subject These are followed by articles on recent computational methodology discussions of recent novel ab initio calculations as on benzene descriptions for conceptual chemical bonding ideas as applied both to molecular structures and chemical reactions and finally several applications involving condensed matter including polymers magnetic solids metals and high T_c superconductors

The Vocabulary and Concepts of Organic Chemistry Milton Orchin, 2005-06-03 This one of a kind reference comprises eighteen topical chapters covering key subject areas in organic chemistry and related fields from atomic orbital theory to polymer chemistry nuclear magnetic resonance spectroscopy to the chemical utilization of fossil fuels Related terms and concepts such as catalyst and zeolite appear in the same chapter and in close proximity to one another thus placing them in context and making it easier for readers to grasp fine distinctions Jacket

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