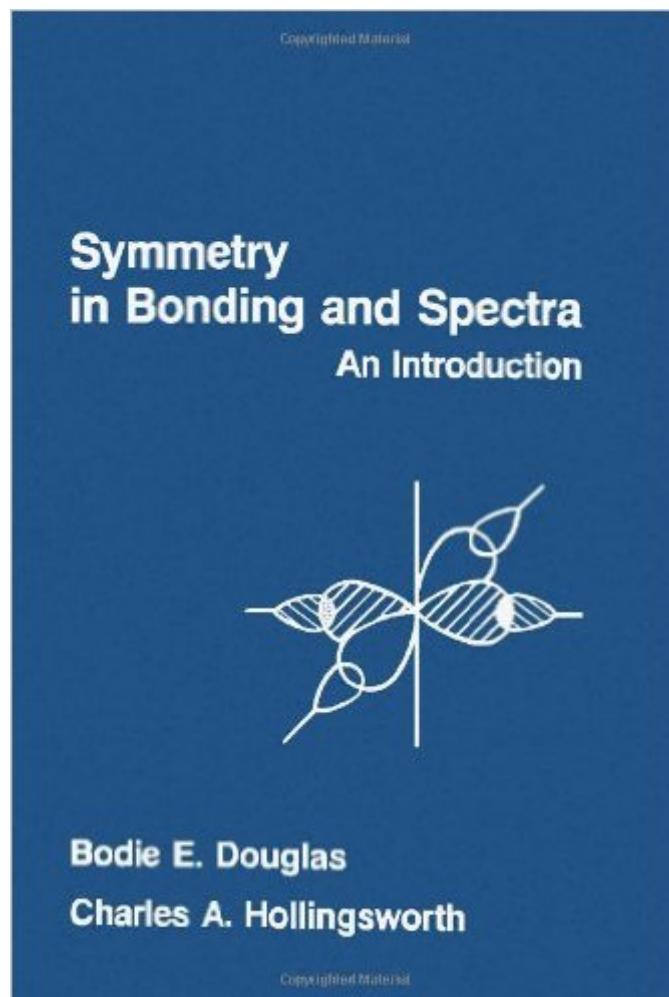


The book was found

Symmetry In Bonding And Spectra: An Introduction



Synopsis

Many courses dealing with the material in this text are called "Applications of Group Theory." Emphasizing the central role and primary importance of symmetry in the applications, *Symmetry in Bonding and Spectra* enables students to handle applications, particularly applications to chemical bonding and spectroscopy. It contains the essential background in vectors and matrices for the applications, along with concise reviews of simple molecular orbital theory, ligand field theory, and treatments of molecular shapes, as well as some quantum mechanics. Solved examples in the text illustrate theory and applications or introduce special points. Extensive problem sets cover the important methods and applications, with the answers in the appendix.

Book Information

Hardcover: 456 pages

Publisher: Academic Press; y First printing edition (June 11, 1985)

Language: English

ISBN-10: 0122213408

ISBN-13: 978-0122213403

Product Dimensions: 1 x 6.5 x 9.5 inches

Shipping Weight: 1.7 pounds

Average Customer Review: 3.0 out of 5 starsÂ [See all reviewsÂ \(1 customer review\)](#)

Best Sellers Rank: #1,707,968 in Books (See Top 100 in Books) #100 inÂ Books > Science & Math > Chemistry > Physical & Theoretical > Quantum Chemistry #4341 inÂ Books > Textbooks > Science & Mathematics > Chemistry #4501 inÂ Books > Textbooks > Science & Mathematics > Physics

Customer Reviews

I've referred to this book constantly after having to buy it for a class many years ago. The best section is the beginning, where it covers properties of groups (symmetry, point groups, etc.) and shows examples of small molecules belonging to various point groups. More useful for those studying spectra from high-symmetry molecules in the solid state, such as some inorganic chemists, this book is also useful for those of us who study gas-phase molecular spectra as it broadly covers electronic and vibrational spectroscopy. The chapter on symmetry-controlled reactions is fairly easy reading, and like many of the chapters in the book it is a good place to start if you seek a broad overview of a field before you delve into other books and journal articles for finer details.

[Download to continue reading...](#)

Symmetry in Bonding and Spectra: An Introduction Infrared and Raman Spectra of Inorganic and Coordination Compounds, Applications in Coordination, Organometallic, and Bioinorganic Chemistry Infrared and Raman Spectra of Inorganic and Coordination Compounds, Part B: Applications in Coordination, Organometallic, and Bioinorganic Chemistry, 5th Edition Spectra and Pseudospectra: The Behavior of Nonnormal Matrices and Operators Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) Behavior of Electrons in Atoms. Structure, Spectra, and Photochemistry of Atoms Handbook of Fourier Transform Raman and Infrared Spectra of Polymers, Volume 45 (Physical Sciences Data) Atomic Spectra and Radiative Transitions (Springer Series in Chemical Physics, Vol. 1) Bonding and the Case for Permanence: Preventing mental illness, crime, and homelessness among children in foster care and adoption. A guide for attorneys, judges, therapists and child welfare. Symmetry and Spectroscopy: An Introduction to Vibrational and Electronic Spectroscopy (Dover Books on Chemistry) Molecular Symmetry and Group Theory : A Programmed Introduction to Chemical Applications, 2nd Edition Molecular Symmetry and Group Theory: A Programmed Introduction to Chemical Applications Number, Shape, & Symmetry: An Introduction to Number Theory, Geometry, and Group Theory Symmetry: An Introduction to Group Theory and Its Applications (Dover Books on Physics) Structure of Materials: An Introduction to Crystallography, Diffraction and Symmetry Bonding with Your Rescue Dog: Decoding and Influencing Dog Behavior (Dog Training and Dog Care Series Book 1) Introduction to Molecular Symmetry (Oxford Chemistry Primers) Symmetry in Mechanics: A Gentle, Modern Introduction Symmetry: A Very Short Introduction (Very Short Introductions) Structure and Bonding in Crystalline Materials

[Dmca](#)