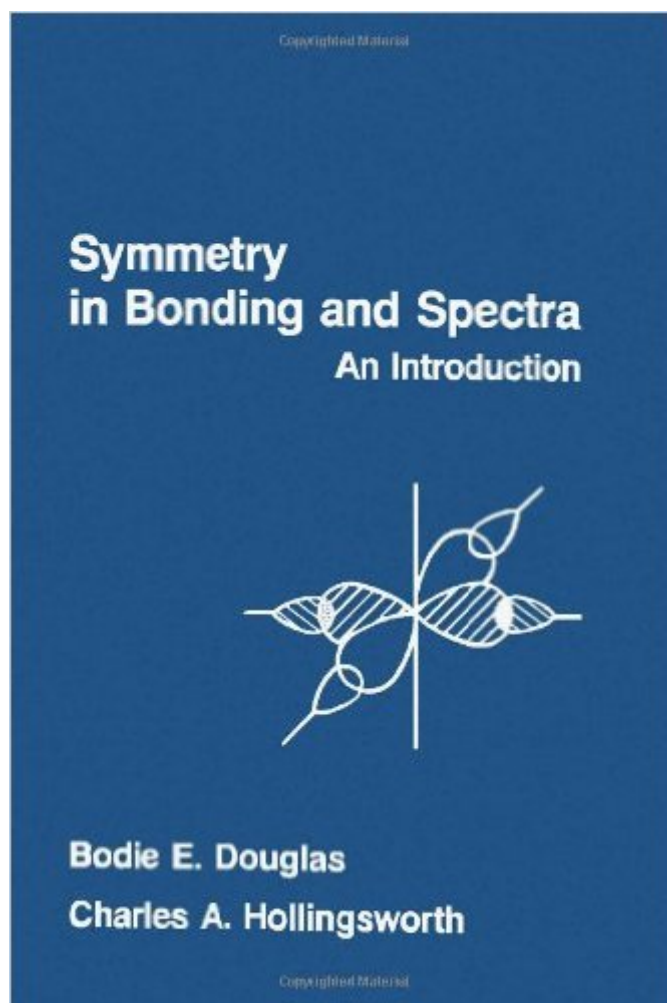


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# Symmetry In Bonding And Spectra: An Introduction



## 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 Â See all reviewsÂ (1 customer review)

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## 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.

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