

Daniel C. Harris and Michael D. Bertolucci

# SYMMETRY AND SPECTROSCOPY

An Introduction to Vibrational and Electronic Spectroscopy

"The authors use an informal but highly effective writing style to present a uniform and consistent treatment of the subject matter."

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The primary focus of this textbook is to introduce the student to vibrational and electronic spectroscopy, presenting the applications of group theory to the interpretation of ultraviolet, visible and infrared spectra without assuming a high level of background knowledge.

The text is divided into five chapters which address the fundamentals of group theory, qualitative aspects of quantum mechanics, vibrational spectroscopy, molecular orbital theory and electronic spectroscopy. To make the exposition clear and meaningful, each new concept is applied and illustrated with experimental results as quickly as possible. In addition, each chapter features a large number of relevant problems through which students can test their understanding of text material. These problems are an integral part of the text and sometimes introduce new material. Solutions to the problems (often accompanied by detailed explanations) can be found in an appendix.

Carefully written to provide a solid foundation in spectroscopic analysis, the book devotes significant attention to the interpretation and significance of vibrational and electronic spectra, including good introductory material on Raman and photoelectron spectroscopy, vibronic analysis and transition metal complexes. Moreover, many of the concepts presented clearly here can be easily extended to studies in other fields of chemistry. Also included are numerous helpful figures and line drawings illustrating important concepts.

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# Symmetry And Spectroscopy Harris Pdf

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## **Symmetry And Spectroscopy Harris Pdf:**

## **Symmetry And Spectroscopy Harris Pdf** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Symmetry And Spectroscopy Harris Pdf**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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