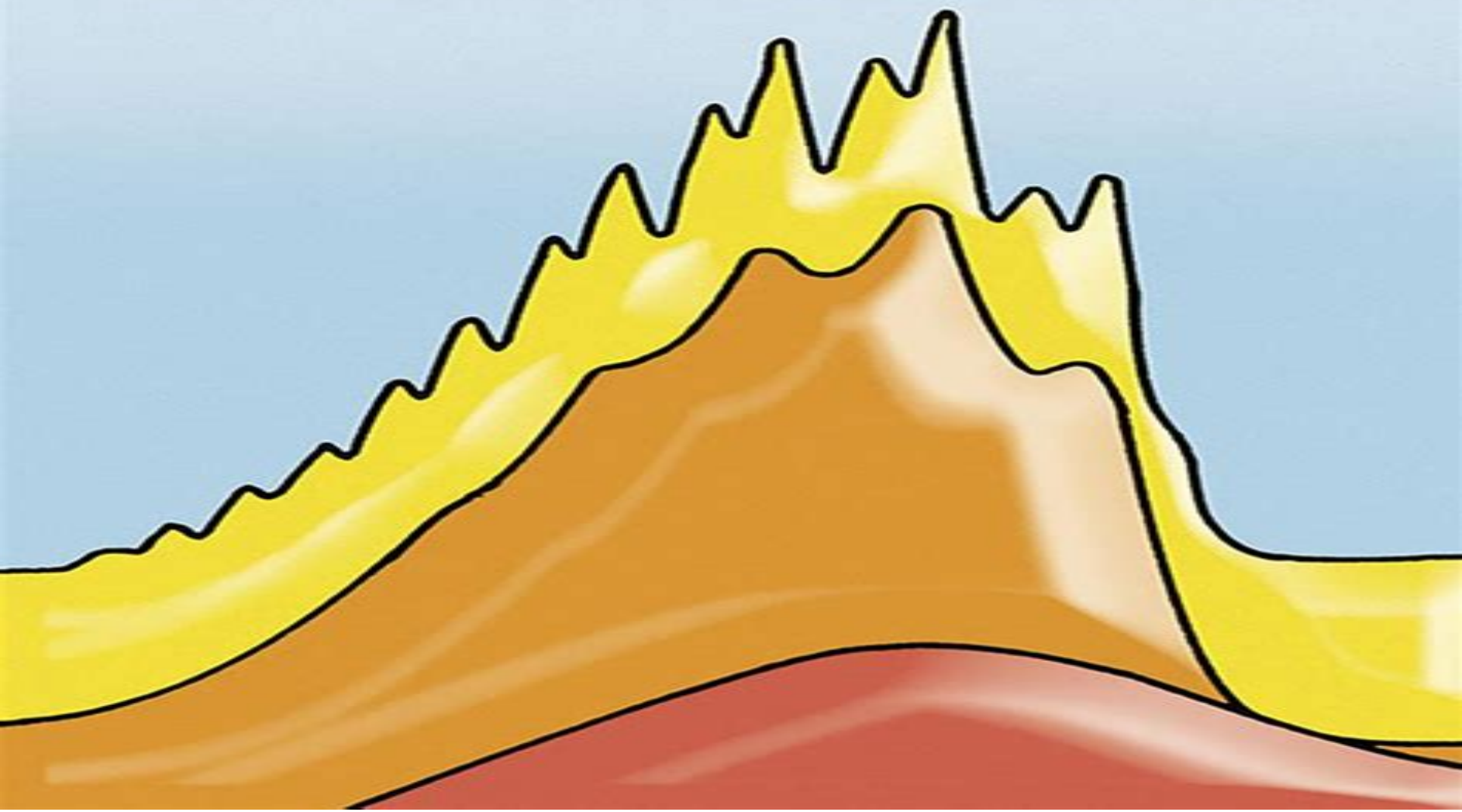


**Daniel C. Harris and Michael D. Bertolucci**

# **SYMMETRY AND SPECTROSCOPY**

An Introduction to Vibrational  
and Electronic Spectroscopy



# Symmetry And Spectroscopy An Introduction To Vibrational And Electronic Spectroscopy

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## **Symmetry And Spectroscopy An Introduction To Vibrational And Electronic Spectroscopy:**

**Symmetry and Spectroscopy** Daniel C. Harris, Michael D. Bertolucci, 1989-01-01 Informal effective undergraduate level text introduces vibrational and electronic spectroscopy presenting applications of group theory to the interpretation of UV visible and infrared spectra without assuming a high level of background knowledge 200 problems with solutions Numerous illustrations A uniform and consistent treatment of the subject matter Journal of Chemical Education *Symmetry and Spectroscopy: an Introduction to Vibrational and Electronic Spectroscopy* Daniel C. Harris, Michael D. Bertolucci, 1989

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Yuen-Zhou, Noel C. Giebink, Raphael F. Ribeiro, 2025-12-16 Understand the emerging field of polariton chemistry with this accessible introduction Polaritons are hybrid excitations formed when confined electromagnetic modes form strong couplings with dipole active transitions in a dielectric medium They have long been a fixture of research in inorganic semiconductor optics but have recently also been taken up as an object of study in molecular science where their prospective applications are many The tunability of their molecular properties and processes have given rise to an interdisciplinary field of polariton chemistry with important potential ramifications for a huge range of fields Polariton Chemistry provides a pedagogical overview of this research subject in which optical cavities are used to control the physiochemical properties and dynamics of molecular systems The book emphasizes the interdisciplinary nature of this burgeoning field and the need for a shared language and set of fundamentals across many research disciplines With no existing rival in the current literature it is a must own for researchers in almost any of the physical sciences Polariton Chemistry readers will also find Analysis of prospective applications including long range excitation energy transfer enhanced charge conductivity and more Detailed discussion of topics including single molecule strong light matter coupling ultrastrong light matter coupling and many more Coverage of key theoretical and experimental techniques Polariton Chemistry is ideal for any scientist in the fields of physical chemistry materials science photonics quantum optics and engineering *Spectroscopic Properties of Inorganic and Organometallic Compounds*, 1977 *Spectroscopic Properties of Inorganic and Organometallic Compounds* provides a unique source of information on an important area of chemistry Divided into sections mainly according to the particular spectroscopic technique used coverage in each volume includes NMR with reference to stereochemistry dynamic systems paramagnetic complexes solid state NMR and Groups 13 18 nuclear quadrupole resonance spectroscopy vibrational spectroscopy of main group and transition element compounds and coordinated ligands and electron diffraction Reflecting the growing volume of published work in this field researchers will find this Specialist Periodical Report an invaluable source of information on current methods and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading experts in their specialist fields this series is designed to help the

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