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Symmetry And Spectroscopy

Daniel C. Harris, Michael D. Bertolucci

Symmetry And 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. Symmetry and Spectroscopy of Molecules K. Veera Reddy, 2007 Bertolucci.1989 Molecular Symmetry and Spectroscopy Philip Bunker, 2012-12-02 Molecular Symmetry and Spectroscopy deals with the use of group theory in quantum mechanics in relation to problems in molecular spectroscopy It discusses the use of the molecular symmetry group whose elements consist of permutations of identical nuclei with or without inversion After reviewing the permutation groups inversion operation point groups and representation of groups the book describes the use of representations for labeling molecular energy The text explains an approximate time independent Schr dinger equation for a molecule as well as the effect of a nuclear permutation or the inversion of E on such equation The book also examines the expression for the complete molecular Hamiltonian and the several groups of operations commuting with the Hamiltonian The energy levels of the Hamiltonian can then be symmetrically labeled by the investigator using the irreducible representations of these groups The text explains the two techniques to change coordinates in a Schr dinger equation namely 1 by using a diatomic molecule in the rovibronic Schr dinger equation and 2 by a rigid nonlinear polyatomic molecule. The book also explains that using true symmetry basis symmetry near symmetry and near quantum numbers the investigator can label molecular energy levels The text can benefit students of molecular spectroscopy academicians and investigators of molecular chemistry or quantum mechanics Symmetry and Spectroscopy Daniel C. Harris, Michael D. Bertolucci, 1978 Informal effective undergraduate level text introduces vibrational and electronic spectroscopy presenting applications of group theory to the interpretation of UV visible and infrared spectra 200 problems with solutions Numerous illustrations Molecular Symmetry and Spectroscopy Philip R. Bunker, Per Jensen, 1998 Symmetry, Spectroscopy, and Crystallography Robert Glaser Symmetry, Spectroscopy, and Crystallography Robert Glaser, 2015-10-05 Written in a clear and (chimico.),2015 understandable manner this book provides a comprehensive yet non mathematical treatment of the topic covering the basic principles of symmetry and the important spectroscopic techniques used to probe molecular structure The chapters are extensively illustrated and deal with such topics as symmetry elements operations and descriptors symmetry guidelines high fidelity pseudosymmetry crystallographic symmetry molecular gears and experimental techniques including X ray crystallography and NMR spectroscopy As an additional feature 3D animations of most of the structures and molecules covered are available online at wiley com As a result chemists learn how to understand and predict molecular structures and

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