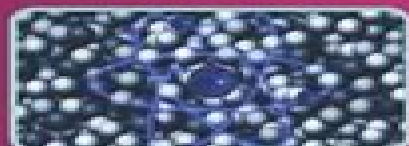
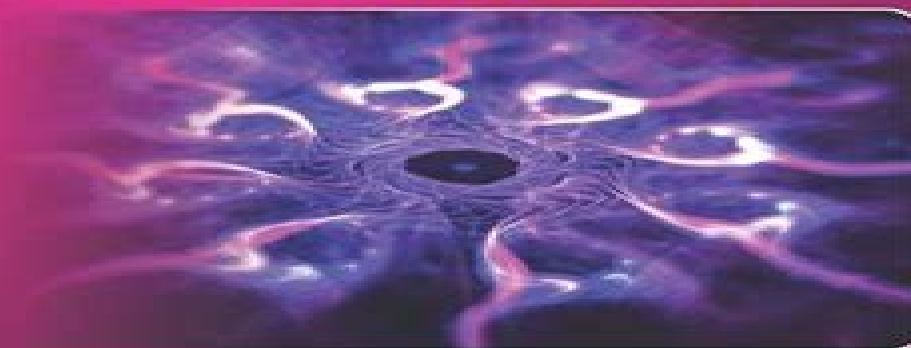


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Molecular Symmetry David Willock,2009-02-17 Symmetry and group theory provide us with a formal method for the description of the geometry of objects by describing the patterns in their structure In chemistry it is a powerful method that underlies many apparently disparate phenomena Symmetry allows us to accurately describe the types of bonding that can occur between atoms or groups of atoms in molecules It also governs the transitions that may occur between energy levels in molecular systems which in turn allows us to predict the absorption properties of molecules and hence their spectra Molecular Symmetry lays out the formal language used in the area using illustrative examples of particular molecules throughout It then applies the ideas of symmetry to describe molecular structure bonding in molecules and consider the implications in spectroscopy Topics covered include Symmetry elements Symmetry operations and products of operations Point groups used with molecules Point group representations matrices and basis sets Reducible and irreducible representations Applications in vibrational spectroscopy Symmetry in chemical bonding Molecular Symmetry is designed to introduce the subject by combining symmetry with spectroscopy in a clear and accessible manner Each chapter ends with a summary of learning points a selection of self test questions and suggestions for further reading A set of appendices includes templates for paper models which will help students understand symmetry groups Molecular Symmetry is a must have introduction to this fundamental topic for students of chemistry and will also find a place on the bookshelves of postgraduates and researchers looking for a broad and modern introduction to the subject

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Molecular Symmetry and Group Theory R. C. Maurya,J.M. Mir,2019-09-02 The mathematical fundamentals of molecular symmetry and group theory are comprehensibly described in this book Applications are given in context of electronic and vibrational

spectroscopy as well as chemical reactions following orbital symmetry rules Exercises and examples compile and deepen the content in a lucid manner **Fundamentals of Molecular Symmetry** P.R. Bunker, 2018-10-03 Winner of a 2005 CHOICE

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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 *Molecular Symmetry and Group Theory* Robert L. Carter, 1997-12-16 A thorough introduction to molecular

symmetry and group theory as applied to chemical problems Readers will discover by example the power of symmetry arguments in understanding otherwise intimidating theoretical problems in chemistry This book demonstrates the centrality of symmetry and group theory to a complete understanding of the theory of structure and bonding **Motion, Symmetry & Spectroscopy of Chiral Nanostructures** Johannes Sachs, 2020 **Spectroscopic Techniques and Hindered Molecular**

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Scientific Analysis of Cultural Heritage Objects Michael Wiescher, Khachatur Manukyan, 2022-05-31 The characterization of cultural heritage objects becomes increasingly important for conservation restoration dating and authentication purposes The use of scientific methods in archaeometry and conservation science has led to a significant broadening of the field Scientific analysis of these objects is a challenging task due to their complex composition artistic and historical values requiring the use of minimally invasive and nondestructive analytical procedures This textbook summarizes scientific methods that are currently used to characterize objects of cultural heritage and archaeological artifacts This book provides a brief description of the structure of matter at the molecular atomic and nuclear levels Furthermore it discusses the chemical and physical nature of materials from the molecular to the atomic and nuclear level as determined by the principles of quantum mechanics Important aspects of natural and anthropogenic radioactivity that play a critical role for some of the analytical techniques are also emphasized The textbook also provides principles and applications of spectroscopic methods for characterization of cultural heritage objects It describes the technologies with specific examples for utilization of spectroscopic techniques in the characterization of paintings books coins ceramics and other objects Analytical approaches that employ isotopes and determination of isotope ratios will be reviewed General principles of imaging techniques and specific examples for utilization of these methods will also be summarized In the later part of the book a number of scientific techniques for the age determination of cultural heritage material and archaeological artifacts will be presented and discussed with specific examples

Molecular Symmetry and Group Theory Alan Vincent, 2013-06-05 This substantially revised and expanded new edition of the bestselling textbook addresses the difficulties that can arise with the mathematics that underpins the study of symmetry and acknowledges that group theory can be a complex concept for students to grasp Written in a clear concise manner the author introduces a series of programmes that help students learn at their own pace and enable them to understand the subject fully

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