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The Structure of Molecules Gordon M. Barrow,1963

The Spectra and Structures of Simple Free Radicals

Gerhard Herzberg,1988-01-01 Authoritative and clearly written Applied Optics The direct observation of short lived free radicals and the consequent study of their structure and reactions have led to important developments in almost every branch of chemistry as well as in other areas This volume by a Nobel laureate offers an excellent introduction to the essentials of molecular spectroscopy The introductory chapter discusses experimental methods and illustrates the observed spectra of various molecules and free radicals Subsequent chapters explore rotational vibrational and electronic energy levels of diatomic molecules and ions radiative transitions linear and nonlinear polyatomic radicals and ions continuous and diffuse spectra predissociation and pre ionization and recombination The well illustrated text features more than 100 figures and spectra A distilled version of the author s monumental three volume study Molecular Spectra and Molecular Structure it constitutes a superb resource for anyone wishing a concise but complete treatment of the fundamentals of molecular spectroscopy

Infra-red Spectroscopy and Molecular Structure Mansel Davies,1963

Spectroscopy and Molecular

Structure Gerald W. King,1969

Equilibrium Molecular Structures Jean Demaison,James E. Boggs,Attila G.

Csaszar,2016-04-19 Molecular structure is the most basic information about a substance determining most of its properties Determination of accurate structures is hampered in that every method applies its own definition of structure and thus results from different sources can yield significantly different results Sophisticated protocols exist to account for these

Publications of the National Bureau of Standards ... Catalog United States. National Bureau of Standards,1978

Fundamentals of Molecular Spectroscopy. P S Sindhu,2006 The Book Has 15 Chapters In All The First Two Chapters

Are Related To Atomic Structure And Atomic Spectra The Next Chapter Is Devoted To Nature Of Chemical Bonds As Looked Upon Through Quantum Mechanics Followed By All Types Of Spectroscopy Every Aspect Is Explained With Some Typical Spectra The Underlying Theory So Developed Will Help Students To Carry Out Spectral Analysis Only Simple Quantum Mechanics Relevant To Simple Molecular Structure Has Been Given Attempt Has Been Made To Relate The Characteristic Chemical Behavior Of These Molecules With Its Mo And Thus To Molecular Spectra One Will Not Find Such Relationship In Any Book But This Will Make Chemistry As Such Still More Interesting Application Of Infrared And Ultra Violet Spectroscopy Nmr And Mass Spectra In Structure Determination Of Organic Molecules Are Very Elegantly Presented In The Fourteenth Chapter Lasers And Their Applications To Various Types Of Second Third And Fourth Order Scattering Spectroscopy Have Been Developed The Book Has Minimum But Essential Mathematics With Very Easy Format In Its Text Such An Approach Will Give A Clear Understanding Of The Subject And Provides Knowledge To Excel At Any Level University Examination Competitive Examination And Before Interview Boards

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Spectroscopy And Molecular Structure Gernald W. King, 1972 *Atomic And Molecular Spectroscopy* Mool Chand Gupta, 2007 This Comprehensive Text Clearly Explains Quantum Theory Wave Mechanics Structure Of Atoms And Molecules And Spectroscopy The Book Is In Three Parts Namely Wave Mechanics Structure Of Atoms And Molecules And Spectroscopy And Resonance Techniques In A Simple And Systematic Manner The Book Explains The Quantum Mechanical Approach To Structure Along With The Basic Principles And Application Of Spectroscopic Methods For Molecular Structure Determination The Book Also Incorporates The Electric And Magnetic Properties Of Matter The Symmetry Group Theory And Its Applications Each Chapter Includes Many Solved Examples And Problems For A Better Understanding Of The Subject With Its Exhaustive Coverage And Systematic Approach This Is An Invaluable Text For B Sc Hons And M Sc Chemistry Students

Introductory Group Theory John R. Ferraro, Joseph S. Ziomek, 2013-11-09 This volume is a consequence of a series of seminars presented by the authors at the Infrared Spectroscopy Institute Canisius College Buffalo New York over the last nine years Many participants on an intermediate level lacked a sufficient background in mathematics and quantum mechanics and it became evident that a non mathematical or nearly nonmathematical approach would be necessary The lectures were designed to fill this need and proved very successful As a result of the interest that was developed in this approach it was decided to write this book The text is intended for scientists and students with only limited theoretical background in spectroscopy but who are sincerely interested in the interpretation of molecular spectra The book develops the detailed selection rules for fundamentals combinations and overtones for molecules in several point groups Detailed procedures used in carrying out the normal coordinate treatment for several molecules are also presented Numerous examples from the literature illustrate the use of group theory in the interpretation of molecular spectra and in the determination of molecular structure **Molecular Structure and Spectroscopy. Special Lectures Presented at the International Symposium on Molecular Structure and Spectroscopy, Held in Tokyo, Japan, 10-15th September 1962. (Reprinted from Pure and Applied Chemistry.) [Organized by the International Union of Pure and Applied Chemistry, Physical Chemistry Section, Commission on Molecular Structure and Spectroscopy, in Conjunction with the Science Council of Japan.]** Section on Physical Chemistry (INTERNATIONAL UNION OF PURE AND APPLIED CHEMISTRY).

Commission on Molecular Structure and Spectroscopy, 1963

Nonlinear Spectroscopy for Molecular Structure

Determination Robert W. Field, 1998 A large variety of nonlinear spectroscopic methods have so far been developed and applied to studies of molecular structure and dynamics. Some of these methods utilize complex techniques making it difficult to understand the underlying principles. Furthermore, most of these methods are referred to by nicknames or acronyms which keeps them shrouded in mystery for most non-specialists who are thereby discouraged from mastering and applying the methods to molecular systems. Under these circumstances it was judged appropriate and timely to overview those nonlinear spectroscopic methods which are currently particularly useful for studies of molecular structure and dynamics. Thus the Commission on Molecular Structure and Spectroscopy of the International Union of Pure and Applied Chemistry decided to publish a book intended to provide an introduction to nonlinear spectroscopy for non-specialists.

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