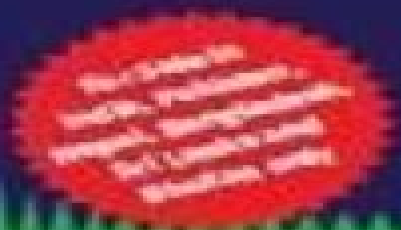


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Atomic And Molecular Spectroscopy Mool Chand Gupta, 2007 This Comprehensive Text Clearly Explains Quantum Theory Wave Mechanics Structure Of Atoms And Molecules And Spectroscopy The Book Is In Three Parts Namely Wave Mechanics Structure Of Atoms And 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

Molecules and Radiation Jeffrey I. Steinfeld, 2005-06-10 This unified treatment introduces upper level undergraduates and graduate students to the concepts and methods of modern molecular spectroscopy and their applications to quantum electronics lasers and related optical phenomena Starting with a review of the prerequisite quantum mechanical background the text examines atomic spectra and diatomic molecules including the rotation and vibration of diatomic molecules and their electronic spectra A discussion of rudimentary group theory advances to considerations of the rotational spectra of polyatomic molecules and their vibrational and electronic spectra molecular beams masers and lasers and a variety of forms of spectroscopy including optical resonance spectroscopy coherent transient spectroscopy multiple photon spectroscopy and spectroscopy beyond molecular constants The text concludes with a series of useful appendixes

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

Introduction to Molecular Spectroscopy Edward F. H. Brittain, William O. George, Clifford Henry James Wells, 1970

Modern Research (Volume 2). KN. Rao, 1976 **Atomic and Molecular Spectroscopy** Sune Svanberg, 2012-12-06

Atomic and Molecular Spectroscopy is a wide ranging review of modern spectroscopic techniques such as X ray photoelectron optical and laser spectroscopy as well as radiofrequency and microwave techniques On the fundamental side it focuses on physical principles and the impact of spectroscopy on our understanding of the building blocks of matter while in the area of applications particular attention is paid to chemical analysis photochemistry surface characterisation environmental and medical diagnostics remote sensing and astrophysics The third edition also provides the reader with an update on laser cooling and trapping Bose Einstein condensation ultrafast spectroscopy high power laser matter interaction satellite based astronomy and spectroscopic aspects of laser medicine *Fundamentals of Molecular Spectroscopy* C. N. Banwell,1983 This revision of Dr Branwell s highly popular text retains the features which have made it so attractive to students and lecturers over the years It remains an elementary and non mathematical introduction to molecular spectroscopy that emphasizes the overall unity of the subject and offers a pictorial perception rather than a mathematical description of the principles of spectroscopy Amazon *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 *Molecular Spectroscopy* K.N. Rao,2012-12-02 *Molecular Spectroscopy Modern Research* explores the advances in several phases of research in molecular spectroscopy This eight chapter book commemorates the 25th anniversary of the annual Columbus Symposium on Molecular Structure and Spectroscopy held in September 1970 This book highlights the spectroscopic studies of molecular species in the gas phase and in matrices Representative articles are also included that cover the applications of molecular studies in a wide variety of areas such as biophysics astrophysical problems and energy transfer processes Other chapters describe the progress achieved in the technology of high resolution spectroscopy and the techniques and terminology of Lamb dip spectroscopy A comprehensive bibliography is included for most of the subjects discussed and this text concludes with tables of standard data listing secondary wavelength standards fundamental constants atomic masses and conversion factors of interest to spectroscopists Spectroscopists chemists and researchers will find this work invaluable *Introduction to Molecular Spectroscopy* ,1969 *Introduction to molecular*

spectroscopy Gordon M. Barrow,1976 **Molecular Spectroscopy** Ira N. Levine,1970 Computational Molecular Spectroscopy Per Jensen,Philip R. Bunker,2000-11-02 This book describes the use of modern computational methods in predicting high resolution molecular spectra which allows the experimental spectroscopist to interpret and assign real spectra Offers a comprehensive treatment of modern computation techniques Provides a collection of material from different areas of theoretical chemistry and physics Bridges the gap between traditional quantum chemistry and experimental molecular spectroscopy **Elements of Molecular Spectroscopy** Sindhu,2007 The structure of molecules: an introduction to molecular spectroscopy Gordon M. Barrow, **Molecular Spectroscopy, 1/e** John M. Brown,John M,1998

Modern Spectroscopy John Michael Hollas,2004-01-16 The fourth edition of Modern Spectroscopy introduces the reader to a wide range of spectroscopies and includes both the background theory and applications to structure determination and chemical analysis It covers rotational vibrational electronic photoelectron and Auger spectroscopy as well as EXAFS and the theory of lasers and laser spectroscopy New material includes laser detection and ranging LIDAR cavity ring down spectroscopy femtosecond lasers femtosecond spectroscopy and very high resolution fluorescence of large molecules In addition the clarity of figures has been greatly improved and Professor Ben van der Veken at the University of Antwerp has run some new infrared spectra especially for this new edition A revised and updated edition of a successful clearly written textbook Modern Spectroscopy Fourth Edition includes the latest developments in modern laser techniques contains a discussion of molecular symmetry provides numerous worked examples calculations and questions at the end of chapters improved clarity of many of the figures Written by an author with many years teaching and research experience Modern Spectroscopy Fourth Edition will prove invaluable for students of chemistry physics and chemical physics studying atomic and molecular spectroscopy lasers and laser spectroscopy and molecular symmetry **Handbook of High-resolution Spectroscopy** Martin Quack,Frederic Merkt,2011-09-26 The field of High Resolution Spectroscopy has been considerably extended and even redefined in some areas Combining the knowledge of spectroscopy laser technology chemical computation and experiments Handbook of High Resolution Spectroscopy provides a comprehensive survey of the whole field as it presents itself today with emphasis on the recent developments This essential handbook for advanced research students graduate students and researchers takes a systematic approach through the range of wavelengths and includes the latest advances in experiment and theory that will help and guide future applications The first comprehensive survey in high resolution molecular spectroscopy for over 15 years Brings together the knowledge of spectroscopy laser technology chemical computation and experiments Brings the reader up to date with the many advances that have been made in recent times Takes the reader through the range of wavelengths covering all possible techniques such as Microwave Spectroscopy Infrared Spectroscopy Raman Spectroscopy VIS UV and VUV Combines theoretical computational and experimental aspects Has numerous applications in a wide range of scientific domains Edited by two leaders in this field

Provides an overview of rotational vibration electronic and photoelectron spectroscopy Volume 1 Introduction Fundamentals of Molecular Spectroscopy Volume 2 High Resolution Molecular Spectroscopy Methods and Results Volume 3 Special Methods Applications **Atomic and Molecular Spectroscopy** ,2015 Basic Atomic and Molecular Spectroscopy John Michael Hollas,2002 The latest in the Tutorial Chemistry Texts series Basic Atomic and Molecular Spectroscopy contains chapters on quantization in polyelectronic atoms molecular vibrations and electronic spectroscopy

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