

SPECTROSCOPIC REFERENCES TO POLYATOMIC MOLECULES

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N. Verma



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and Organometallic Compounds D M Adams, E A V Ebsworth, 2007-10-31 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

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Spectroscopy of Pharmaceutical Solids Harry G. Brittain, 2006-04-18 Selecting illustrative examples from the recent literature this reference studies the underlying principles and physics of a wide range of spectroscopic techniques utilized in the pharmaceutical sciences and demonstrates various applications for each method analyzed in the text showing how knowledge of the mechanisms of spectroscopic phenomena may

Fundamentals of Molecular Spectroscopy Prabal Kumar Mallick, 2023-07-03 This book presents detailed aspects of different fields of molecular spectroscopy It consists of eleven chapters starting from the Born Oppenheimer approximation and its relevance to various spectra to some topics on nonlinear spectroscopy through rotational vibrational Raman and electronic spectroscopy group theoretical application nuclear magnetic resonance electron spin resonance nuclear quadrupole resonance and Mossbauer spectroscopy The intention is to present a good background of the theoretical aspects of the concerned fields which will help the readers to understand the subject firmly and apply them to their own fields according to their needs For this purpose several problems have been worked out to make the readers understand how the theories are applied in the relevant practical cases In this book it is presumed that the readers are well acquainted with the fundamentals of the basic subjects of physics for example mathematical methods classical mechanics quantum mechanics statistical mechanics and electrodynamics The purpose of writing is not only to bring a wider field in a single book but also to develop the theories starting from the fundamentals and also from the simple to the final forms through fairly elaborate powerful techniques so that the readers become self sufficient and apply them accordingly Since this book covers most of the major fields of molecular spectroscopy it reduces the work of searching several publications and serves the purpose of getting detailed deductive pictures of various aspects of the subject in a single publication

Molecules and Their Spectroscopic Properties Sergei V. Khristenko, Alexander I. Maslov, Viatcheslav P. Shevelko, 2012-12-06 *Molecules and Their Spectroscopic Properties* presents a comprehensive collection of geometrical and spectroscopic constants and collisional characteristics for molecules most important in applications with data on energy levels fundamental vibrational frequencies electron and proton affinities dipole moments and polarizabilities ionization potentials and effective cross sections for various elementary processes occurring in laboratory and astrophysical plasmas chemical processes and molecular lasers Besides the tabulated and graphical material the most important physical notations and fundamental relationships are included too The up to date reference data presented will be useful for specialists working in molecular spectroscopy physics of molecular collisions and laser physics

Reference

Data on Atoms, Molecules, and Ions A.A. Radzig, B.M. Smirnov, 2012-12-06 This reference book contains information about the structure and properties of atomic and molecular particles as well as some of the nuclear parameters. It includes data which can be of use when studying atomic and molecular processes in the physics of gases, chemistry of gases and gas optics in plasma physics and plasma chemistry in physical chemistry and radiation chemistry in geophysics, astrophysics, solid state physics, and a variety of cross disciplinary fields of science and technology. Our aim was to collect carefully selected and estimated numerical values for a wide circle of microscopic parameters in a relatively not thick book. These values are of constant use in the work of practical investigators. In essence the book represents a substantially revised and extended edition of our reference book published in Russian in 1980. Two main reasons made it necessary to rework the material. On the one hand a great deal of new high quality data has appeared in the past few years and furthermore we have enlisted many sources of information previously inaccessible to us. On the other hand we have tried to insert extensive information on new rapidly progressing branches of physical research such as multiply charged ions, Rydberg atoms, van der Waals and excimer molecules, complex ions etc. All this brings us to the very edge of studies being carried out in the field. *Molecular Spectroscopy* Jeanne L. McHale, 2017-07-06 This textbook offers an introduction to the foundations of spectroscopic methods and provides a bridge between basic concepts and experimental applications in fields as diverse as materials science, biology, solar energy conversion and environmental science. The author emphasizes the use of time dependent theory to link the spectral response in the frequency domain to the behavior of molecules in the time domain, strengthened by two brand new chapters on nonlinear optical spectroscopy and time resolved spectroscopy. Theoretical underpinnings are presented to the extent necessary for readers to understand how to apply spectroscopic tools to their own interests. **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. Spectroscopic References to Polyatomic Molecules V. N. Verma, 1980

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