

The Spectra and Dynamics of Diatomic Molecules



Hélène LeFebvre-Brion
and Robert W. Field

Spectra And Dynamics Of Diatomic Molecules

Martin Quack, Frederic Merkt



Spectra And Dynamics Of Diatomic Molecules:

The Spectra and Dynamics of Diatomic Molecules Helene Lefebvre-Brion, Robert W. Field, 2004-04-28 This book is written for graduate students just beginning research for theorists curious about what experimentalists actually can and do measure and for experimentalists bewildered by theory It is a guide for potential users of spectroscopic data and uses language and concepts that bridge the frequency and time domain spectroscopic communities Key topics concepts and techniques include the assignment of simple spectra basic experimental techniques definition of Born Oppenheimer and angular momentum basis sets and the associated spectroscopic energy level patterns Hund s cases construction of effective Hamiltonian matrices to represent both spectra and dynamics terms neglected in the Born Oppenheimer approximation situations intermediate between Hund s cases spectroscopic perturbations nonlinear least squares fitting calculation and interpretation of coupling terms semi classical WKB approximation transition intensities and interference effects direct photofragmentation dissociation and ionization and indirect photofragmentation predissociation and autoionization processes visualization of intramolecular dynamics quantum beats and wavepackets treatment of decaying quasi eigenstates using a complex Heff model and concluding with some examples of polyatomic molecule dynamics Students will discover that there is a fascinating world of cause and effect localized dynamics concealed beyond the reduction of spectra to archival molecular constants and the exact ab initio computation of molecular properties Professional spectroscopists kinetics ab initio theorists will appreciate the practical simplified model and rigorous theoretical approaches discussed in this book A fundamental reference for all spectra of small gas phase molecules It is the most up to date and comprehensive book on the electronic spectroscopy and dynamics of diatomic molecules The authors pioneered the development of many of the experimental methods concepts models and computational schemes described in this book *The Spectra and Dynamics of Diatomic Molecules* Helene Lefebvre-Brion, Robert W. Field, 2004-04-02 And concluding with some examples of polyatomic molecule dynamics P Students will discover that there is a fascinating world of cause and effect localized dynamics concealed beyond the reduction of spectra to archival molecular constants and the exact ab initio computation of molecular properties

Spectra and Dynamics of Small Molecules Robert W. Field, 2015-04-14 These seven lectures are intended to serve as an introduction for beginning graduate students to the spectra of small molecules The author succeeds in illustrating the concepts by using language and metaphors that capture and elegantly convey simple insights into dynamics that lie beyond archival molecular constants The lectures can simultaneously be viewed as a collection of interlocking special topics that have fascinated the author and his students over the years Though neither a textbook nor a scholarly monograph the book provides an illuminating perspective that will benefit students and researchers alike **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 Molecular Quantum Mechanics Peter W. Atkins, Ronald S. Friedman, 2011 This text unravels those fundamental physical principles which explain how all matter behaves It takes us from the foundations of quantum mechanics through quantum models of atomic molecular and electronic structure and on to discussions of spectroscopy and the electronic and magnetic properties of molecules Atoms, Molecules and Photons Wolfgang Demtröder, 2019-02-09 This introduction to Atomic and Molecular Physics explains how our present model of atoms and molecules has been developed over the last two centuries both by many experimental discoveries and from the theoretical side by the introduction of quantum physics to the adequate description of micro particles It illustrates the wave model of particles by many examples and shows the limits of classical description The interaction of electromagnetic radiation with atoms and molecules and its potential for spectroscopy is outlined in more detail and in particular lasers as modern spectroscopic tools are discussed more thoroughly Many examples and problems with solutions are offered to encourage readers to actively engage in applying and adapting the fundamental physics presented in this textbook to specific situations Completely revised third edition with new sections covering all actual developments like photonics ultrashort lasers ultraprecise frequency combs free electron lasers cooling and trapping of atoms quantum optics and quantum information **Contemporary Scientific Realism** Timothy D. Lyons, Peter Vickers, 2021 Contemporary Scientific Realism brings together the most important lessons from the history of science to explain scientific realism The expert contributors introduce and assess topics that redefine what we know about the philosophy of science Isotope Effects In Chemistry and Biology Amnon Kohen, Hans-Heinrich Limbach, 2005-11-01 The field of isotope effects has expanded exponentially in the last decade and researchers are finding isotopes increasingly useful in their studies Bringing literature on the subject up to date Isotope Effects in Chemistry and Biology covers current principles methods and a broad range of applications of isotope effects in the physical biolo

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