

The Spectra and Dynamics of Diatomic Molecules



Hélène Leclercq-Briand
and Robert W. Field

Spectra And Dynamics Of Diatomic Molecules

Amnon Kohen, Hans-Heinrich Limbach



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**

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