



Perturbations in the Spectra of Diatomic molecules

Helene Lefebvre-Brion

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Perturbations in the Spectra of Diatomic Molecules examines in sufficient detail the spectrum of every diatomic molecule.

This book is divided into seven chapters. Chapter 1 describes the perturbations and simple procedures for evaluating matrix elements of angular momentum. The terms in the molecular Hamiltonian that are responsible for perturbations are elaborated in Chapter 2, while the process of reducing spectra to molecular constants and the difficulty of relating empirical parameters to terms in the exact molecular Hamiltonian are described in Chapter 3. Chapter 4 discusses the magnitudes and physical interpretations of matrix elements. The transition intensities, especially quantum mechanical interference effects, are reviewed in Chapter 5. The last two chapters are devoted to the two forms of perturbation-predissociation and autoionization.

This publication is a good source for graduate students, theorists, experimentalists, and potential users of spectroscopic data.

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