



# Spectra and Dynamics of Small Molecules [ Alexander von Humboldt Lectures /

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Physics Spectroscopy Quantum theory Physics Atomic/Molecular Structure and Spectra Spectroscopy/Spectrometry Quantum Physics

Monografía

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

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**Contenido:** Preface -- Introduction -- Hierarchy of Terms in the Effective Hamiltonian -- Spectroscopic Perturbations: Homogeneous and Heterogeneous -- The Effective Hamiltonian for Diatomic Molecules -- Rotation of Polyatomic Molecules -- Quantum Beats.- The Effective Hamiltonian for Polyatomic Molecule Vibration -- Intramolecular Dynamics: Representations, Visualizations and Mechanisms

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