



## Infrared Vibration-rotation Spectroscopy: From Free Radicals to the Infrared Sky (Hardback)

By Geoffrey Duxbury

John Wiley and Sons Ltd, United Kingdom, 2000. Hardback. Book Condition: New. 1. Auflage. 241 x 163 mm. Language: English . Brand New Book. Written by an author internationally renowned in the field of molecular spectroscopy, this book provides an up-to-date account of the new experimental and theoretical methods on the high resolution infrared spectroscopy of small molecules. The approach uses a visual approach to spectral analysis, containing large numbers of energy level diagrams and spectra spectra to show the progress in identification and line assignment. Covering new and important techniques on laser and Fourier Transform, it also contains both theoretical and experimental chapters. Divided into 3 parts, features covered in the first part include: Calculations of the vibration-rotation energy levels of rigid and non-rigid molecules  
Calculations of the intensities of vibration-rotation transitions  
Introduction to linear and non-linear molecular spectroscopy  
Use of interferometric and laser spectrometers for measuring infrared spectra  
The second part presents a detailed treatment of the analysis of the high resolution vibration-rotation spectra of linear, quasilinear, symmetric rotor and asymmetric rotor molecules. In the final part of the book the following topics of current interest are examined in depth: Electric and magnetic resonance spectroscopy Spectroscopy of transient...



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