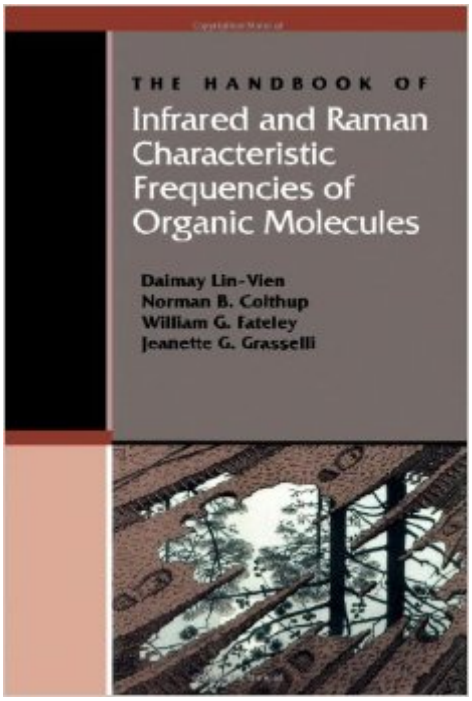
# The Handbook Of Infrared And Raman Characteristic Frequencies Of Organic Molecules



## Synopsis

This necessary desk reference for every practicing spectroscopist represents the first definitive book written specifically to integrate knowledge about group frequencies in infrared as well as Raman spectra. In the spirit of previous classics developed by Bellamy and others, this volume has expanded its scope and updated its coverage. In addition to detailing characteristic group frequencies of compounds from a comprehensive assortment of categories, the book includes a collection of spectra and a literature search conducted to verify existing correlations and to determine ways to enhance correlations between vibrational frequencies and molecular structure. Particular attention has been given to the correlation between Raman characteristic frequencies and molecular structure. Key Features* Constitutes a necessary reference for every practicing vibrational spectroscopist* Provides the new definitive text on characteristic frequencies of organic molecules* Incorporates group frequencies for both infrared and Raman spectra* Details the characteristic IR and Raman frequencies of compounds in more than twenty major categories* Includes an extensive collection of spectra* Compiled by internationally recognized experts

## Book Information

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Average Customer Review: 4.0 out of 5 starsÂ Â See all reviewsÂ (1 customer review)

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## Customer Reviews

I work as an analytical chemist mainly using IR and Raman for unknown identification and for studying various chemical reactions.This book, together with the Infrared and Raman Characteristic Group Frequencies: Tables and Charts (Spiral-bound)by George Socrates, are the two books that I use almost on a daily base. With the electronic IR/Raman library becoming more and more popular,

it is no longer necessary for your to remember all the peak frequencies/intensity. But having a book that compiles all the group frequencies and explains how the various chemical environments could affect the vibrational modes is a must-have if you are a serious vibrational spectroscopist.i usually use the book by Lin-Vien when I want a systematic description of a particular modes or a class of molecules. I use the Infrared and Raman Characteristic Group Frequencies: Tables and Charts for its nice charts. I like both. But Lin-Vien's book does appear to be a little 'ancient' compared to the one from George Socrates.



The Handbook of Infrared and Raman Characteristic Frequencies of Organic Molecules Handbook of Fourier Transform Raman and Infrared Spectra of Polymers, Volume 45 (Physical Sciences Data) Infrared and Raman Spectra of Inorganic and Coordination Compounds, Applications in Coordination, Organometallic, and Bioinorganic Chemistry Infrared and Raman Spectra of Inorganic and Coordination Compounds, Part B: Applications in Coordination, Organometallic, and Bioinorganic Chemistry, 5th Edition Molecular Vibrations: The Theory of Infrared and Raman Vibrational Spectra (Dover Books on Chemistry) Ace Organic Chemistry I: The EASY Guide to Ace Organic Chemistry I: (Organic Chemistry Study Guide, Organic Chemistry Review, Concepts, Reaction Mechanisms and Summaries) Organic Body Care Recipes Box Set: Organic Body Scrubs, Organic Lip Balms, Organic Body Butter, And Natural Skin Care Recipes Handbook of Raman Spectroscopy: From the Research Laboratory to the Process Line (Practical Spectroscopy) ISO 3951-1:2005, Sampling procedures for inspection by variables - Part 1: Specification for single sampling plans indexed by acceptance quality limit ... quality characteristic and a single AQL Characteristic Classes. (AM-76) Structure-Borne Sound: Structural Vibrations and Sound Radiation at Audio Frequencies LOW EARTH FREQUENCIES: Universal cure to all brain diseases (A New Era Of Knowledge Book 2) Chakra Frequencies: Tantra of Sound Heterolytic Fragmentation of Organic Molecules Transition Metals in the Synthesis of Complex Organic Molecules Modern Molecular Photochemistry of Organic Molecules Build Your Own Working Fiberoptic Infrared and Laser Space-Age Projects Tuning in to Nature: Solar Energy, Infrared Radiation,&the Insect Communication System Technical Description of the Infrared Laser used on the World Trade Center 9/11 Modeling the Psychopathological Dimensions of Schizophrenia, Volume 23: From Molecules to Behavior (Handbook of Behavioral Neuroscience)