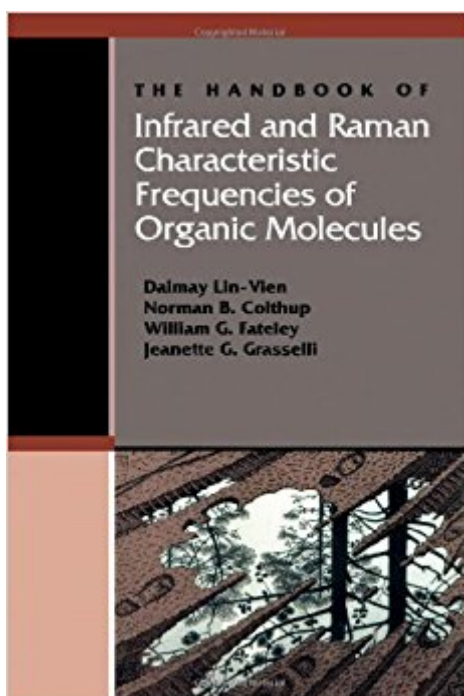


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The Handbook Of Infrared And Raman Characteristic Frequencies Of Organic Molecules



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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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 you 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 mode 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.

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