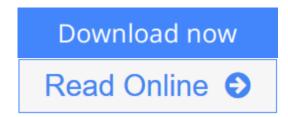


# The Handbook of Infrared and Raman Characteristic Frequencies of Organic Molecules

By Daimay Lin-Vien, Norman B. Colthup, William G. Fateley, Jeanette G. Grasselli



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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.

- 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



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#### **Editorial Review**

#### Review

"This handbook is a worthy follower to Bellamy's books and will be indespensible for planning and performing analyses. As a bonus, the book is beautifully produced: it has fine paper and printing and is well bound, as befits a book likely to be opened frequently." --SPECTROSCOPY

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"These well known spectroscopists have integrated the established IR and Raman characteristic frequencies of organic molecules into a unique well documented handbook including IR and Raman spectra and correlation charts. Students as well as established scientists will benefit by having this well written compendium available for reference." --R.A. Nyquist, THE DOW CHEMICAL COMPANY

"This text is a masterful update of Bellamy's classic work, infrared Spectra of Complex Molecules. It faithfully preserves the style and broad literature coverage of Bellamy. It is also ample evidence that the field of infrared group frequencies is as dynamic as ever. This is a first class treatment and with the inclusion of detailed discussions of Raman data, it stands alone. It should be in the library of all scientists dealing with the spectroscopy of organic molecules." --Dana W. Mayo, BOWDOIN COLLEGE

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