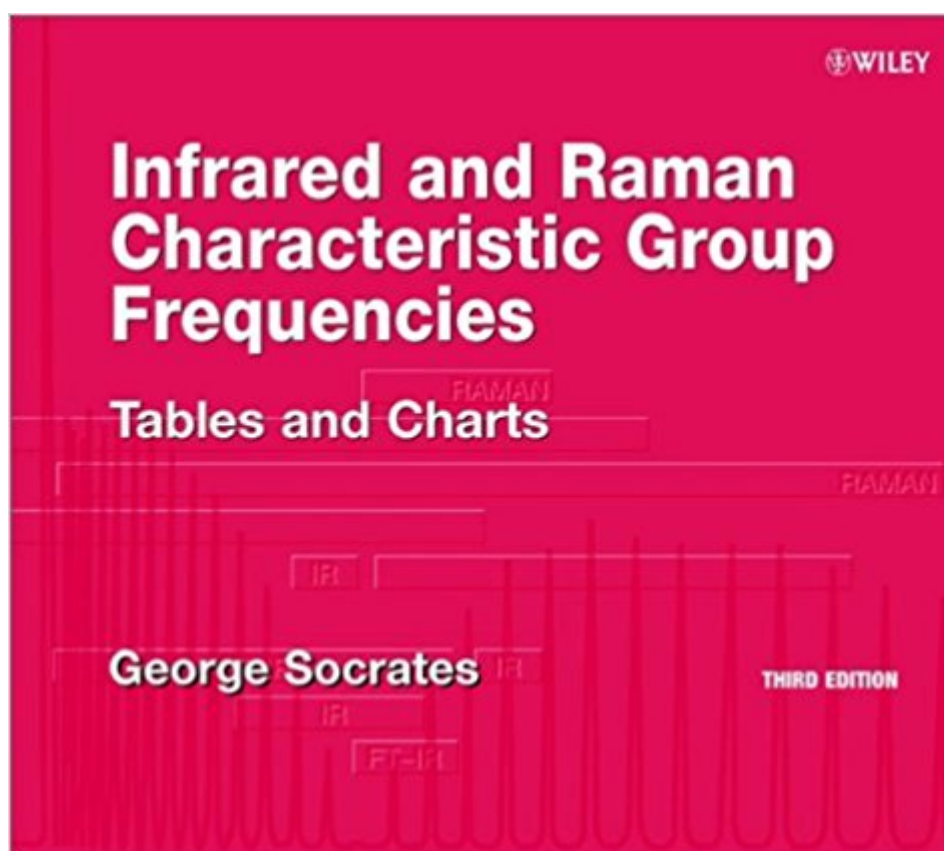


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# Infrared And Raman Characteristic Group Frequencies: Tables And Charts, 3rd Edition



## Synopsis

The third edition of this highly successful manual is not only a revised text but has been extended to meet the interpretive needs of Raman users as well as those working in the IR region. The result is a uniquely practical, comprehensive and detailed source for spectral interpretation. Combining in one volume, the correlation charts and tables for spectral interpretation for these two complementary techniques, this book will be of great benefit to those using or considering either technique. In addition to the new Raman coverage the new edition offers: \* new section on macromolecules including synthetic polymers and biomolecules; \* expansion of the section on NIR (near infrared region) to reflect recent growth in this area; \* extended chapter on inorganic compounds including minerals and glasses; \* redrawn and updated charts plus a number of new charts covering data new to this edition. This new edition will be invaluable in every industrial, university, government and hospital laboratory where infrared (FT-IR) and Raman spectral data need to be analysed.

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"...more than just a thinly veiled reprint of the previous excellent reference work. It is the culmination of a long-term effort...and is now...the most inclusive compilation of data on vibrational group frequencies available. Any laboratory...will benefit from this book." (Spectroscopy, Vol. 16, No. 12, December 2001) "one of the most comprehensive reference books for both beginners and experts" (Applied Spectroscopy, Vol. 56 No. 3 2002)

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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 *The Handbook of Infrared and Raman Characteristic Frequencies of Organic Molecules* by Lin-Vien, 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 this book for quick reference of the charts or look up a band at a particular frequency. When I want a systematic description of a particular modes or a class of molecules, I would use the book from Lin-Vien. But both book contain both (charts and texts/description/explanation). This book looks more modern and slightly better-organized.

the best book on raman spectra out there. everyone doing raman analyses should have this one in their lab

Superb reference for serious molecular spectroscopists. For those not inclined to let the computer identify your materials, Socrates is the classical approach to infrared spectral interpretation.

This book is a great reference for analyzing FTIR data. It is very complete and with it in paperback, easy to tote around. The organization of this book is logical and is a great quick reference. No actual

fundamentals are contained, as it states.

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