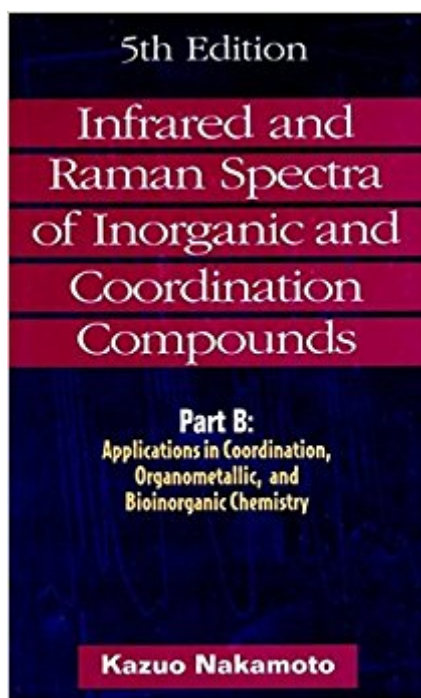




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Infrared And Raman Spectra Of Inorganic And Coordination Compounds, Part B: Applications In Coordination, Organometallic, And Bioinorganic Chemistry, 5th Edition



Synopsis

The most comprehensive guide to infrared and Raman spectra of inorganic and coordination compounds-now fully revised and updated. This book has served as the definitive guide to infrared and Raman spectroscopy of inorganic and coordination compounds from the time of its first publication in 1963. The Fifth Edition consists of two self-contained volumes: Part A describes basic theories of normal vibrations and their applications to relatively simple inorganic compounds, while Part B extends them to larger and more complex systems-coordination compounds, organometallic compounds, and bioinorganic compounds. Part B shows how one can deduce structural and bonding information from vibrational spectra. For this purpose, the compounds have been classified into each structural type, their vibrational frequencies and band assignments listed, and typical infrared/Raman spectra illustrated. Special emphasis has been placed on metal-ligand vibrations that appear in the low-frequency region. This new edition * Incorporates new topics, including complexes of carbon dioxide and dihydrogen and metal complex-DNA interactions * Offers many references to the latest research in the field * Reviews all important new results obtained on the subject * Provides many infrared and Raman spectral charts of typical compounds * Features 156 illustrations. This is the best reference book for researchers and graduate students in this field today. Also Available: Infrared and Raman Spectra of Inorganic and Coordination Compounds, 5th Edition, Part A: Theory and Applications in Inorganic Chemistry, 1997 0-471-16394-5

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This book, along with its companion volume, is a thoroughly revised and expanded edition of a best-seller. Completely self-contained, Part B serves as a more advanced practical reference to the use of infrared and raman spectroscopy--two techniques used to "fingerprint" and identify chemical substances. It shows how spectroscopic principles are applied in organometallic and bioinorganic chemistry.

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