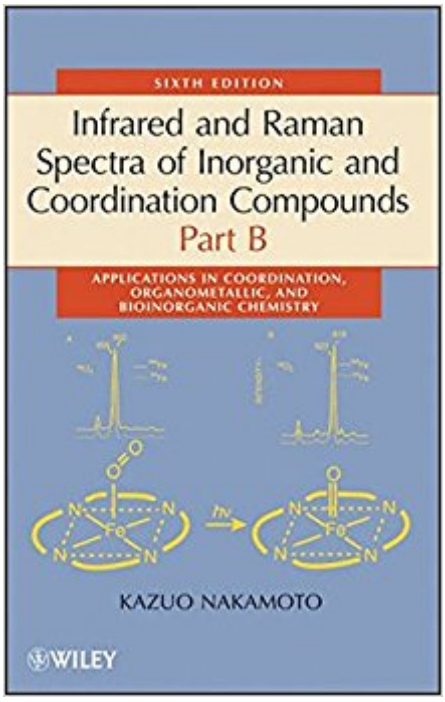
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Infrared And Raman Spectra Of Inorganic And Coordination Compounds, Applications In Coordination, Organometallic, And Bioinorganic Chemistry



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Synopsis

The 6th edition of this classic comprises the most comprehensive guide to infrared and Raman spectra of inorganic, organometallic, bioinorganic, and coordination compounds. From fundamental theories of vibrational spectroscopy to applications in a variety of compound types, it is extensively updated. Part B details applications of Raman and IR spectroscopy to larger and complex systems. It covers interactions of cisplatin and other metallodrugs with DNA and cytochrome c oxidase and peroxidase. This is a great reference for chemists and medical professionals working with infrared or Raman spectroscopies and for graduate students.

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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 intrared and raman spectroscopy--two techniques used to "fingerprint" and identify chemical substances. It shows how spectroscopic principles are applied in organometallic and bioinorganic chemistry. --This text refers to an out of print or unavailable edition of this title.

New research findings, data, and the latest applications in infrared and Raman spectroscopy The Sixth Edition of this classic publication continues to set the standard as the most comprehensive guide to infrared and Raman spectra of inorganic, coordination, organometallic, and bioinorganic compounds. From fundamental theories of vibrational spectroscopy to applications to a variety of compound types, all the topics in the Sixth Edition have been thoroughly updated with the most

relevant findings and developments. Part B of this two-volume work offers detailed descriptions of applications of infrared and Raman spectroscopy. In addition to general updating, the highlights of this edition are: New sections on metal complexes of chlorins, chlorophylls, phthalocyanines, and bacteriochlorophylls Vibrational spectra of novel coordination compounds prepared in inert gas matrices Resonance Raman spectra and biological significance of Fe(IV, V) porphyrins Vibrational spectra of cytochrome c oxidase and blue copper proteins Interactions of cisplatin with nucleic acids Throughout the publication, references guide readers to the literature for more in-depth investigations into individual topics. Used alone or in combination with Part A, which covers theory and applications in inorganic chemistry, this volume is an excellent reference for chemists working with infrared and Raman spectroscopy. In addition, both volumes are recommended as a textbook for graduate-level course work.

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