

1. Record Nr.	UNINA9910824673103321
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Titolo	Infrared and Raman spectra of inorganic and coordination compounds . Part B Applications in coordination, organometallic, and bioinorganic chemistry / / Kazuo Nakamoto
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, c2009
ISBN	9786612492037 9781282492035 1282492039 9780470405871 0470405872 9780470405888 0470405880
Edizione	[6th ed.]
Descrizione fisica	1 online resource (422 p.)
Disciplina	543.57
Soggetti	Infrared spectroscopy Raman spectroscopy Espectroscòpia infraroja Espectroscòpia Raman Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previous ed.: c1997.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Infrared and Raman Spectra of Inorganic and Coordination Compounds; Contents; PREFACE TO THE SIXTH EDITION; ABBREVIATIONS; 1. Applications in Coordination Chemistry; 1.1. Ammine, Amido, and Related Complexes; 1.2. Complexes of Ethylenediamine and Related Ligands; 1.3. Complexes of Pyridine and Related Ligands; 1.4. Complexes of Bipyridine and Related Ligands; 1.5. Metalloporphyrins; 1.6. Metallochlorins, Chlorophylls, and Metallophthalocyanines; 1.7. Nitro and Nitrito Complexes; 1.8. Lattice Water and Aquo and Hydroxo Complexes 1.9. Complexes of Alkoxides, Alcohols, Ethers, Ketones, Aldehydes, Esters, and Carboxylic Acids 1.10. Complexes of Amino Acids, EDTA,

and Related Ligands; 1.11. Infrared Spectra of Aqueous Solutions; 1.12. Complexes of Oxalato and Related Ligands; 1.13. Complexes of Sulfate, Carbonate, and Related Ligands; 1.14. Complexes of -Diketones; 1.15. Complexes of Urea, Sulfoxides, and Related Ligands; 1.16. Cyano and Nitrile Complexes; 1.17. Thiocyanato and Other Pseudohalogeno Complexes; 1.18. Complexes of Carbon Monoxide; 1.19. Complexes of Carbon Dioxide; 1.20. Nitrosyl Complexes
1.21. Complexes of Dioxygen
1.22. Metal Complexes Containing Oxo Groups; 1.23. Complexes of Dinitrogen and Related Ligands; 1.24. Complexes of Dihydrogen and Related Ligands; 1.25. Halogeno Complexes; 1.26. Complexes Containing Metal-Metal Bonds; 1.27. Complexes of Phosphorus and Arsenic Ligands; 1.28. Complexes of Sulfur and Selenium Ligands; References; 2. Applications in Organometallic Chemistry; 2.1. Methylene, Methyl, and Ethyl Compounds; 2.2. Vinyl, Allyl, Acetylenic, and Phenyl Compounds; 2.3. Halogeno, Pseudohalogeno, and Acidic Compounds
2.4. Compounds Containing Other Functional Groups
2.5. -Bonded Complexes of Olefins, Acetylenes, and Related Ligands; 2.6. Cyclopentadienyl Compounds; 2.7. Cyclopentadienyl Compounds Containing Other Groups; 2.8. Complexes of Other Cyclic Unsaturated Ligands; 2.9. Miscellaneous Compounds; References; 3. Applications in Bioinorganic Chemistry; 3.1. Myoglobin and Hemoglobin; 3.2. Ligand Binding to Myoglobin and Hemoglobin; 3.3. Cytochromes and Other Heme Proteins; 3.4. Bacteriochlorophylls; 3.5. Hemerythrins; 3.6. Hemocyanins; 3.7. Blue Copper Proteins; 3.8. Iron-Sulfur Proteins
3.9. Interactions of Metal Complexes with Nucleic Acids
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Sommario/riassunto

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 spectra.
