

# Infrared and Raman Spectra of Inorganic and Coordination Compounds, Theory and Applications in Inorganic Chemistry (Anfrared & Raman Spectra of Anorganic & Coordination Compoun)

Kazuo Nakamoto



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**Infrared and Raman Spectra of Inorganic and Coordination Compounds, Theory and Applications in Inorganic Chemistry (Anfrared & Raman Spectra of Anorganic & Coordination Compoun)** Kazuo Nakamoto

The most comprehensive guide to infrared and Raman spectra of inorganic and coordination compounds-now fully revised and updated

Infrared and Raman Spectra of Inorganic and Coordination Compounds has always provided fundamental theories of vibrational spectroscopy in a condensed form and their applications to inorganic and coordination compounds. The Fifth Edition continues to cover these theories and applications, which have been updated by adding many new topics, figures, tables, and references.

Part A of this two-volume work describes basic theories of normal vibrations including the method of normal coordinate analysis, resonance Raman spectroscopy, and vibrational analysis of crystals in clear and precise terms, and applies them to relatively simple inorganic compounds while leaving the applications to larger and more complex systems to Part B. This new edition

\* Incorporates new topics such as the correlation method, lattice vibrations, ceramic superconductors, and carbon clusters such as buckminsterfullerene

- \* Offers numerous references to the recent research in the field
- \* Reviews significant new literature on the subject
- \* Provides many infrared and Raman spectral charts of typical compounds
- \* Features 116 illustrations
- \* Contains appendices consisting of tables, charts, and supplementary information

Used independently or in combination with Part B, this is an excellent textbook for graduate-level course work, and the most comprehensive reference book available for researchers in the fields of vibrational spectroscopy, inorganic chemistry, coordination chemistry, organometallic chemistry, and bioinorganic chemistry.

Also Available: Infrared and Raman Spectra of Inorganic and Coordination Compounds, 5th Edition, Part B: Applications in Coordination, Organometallic, and Bioinorganic Chemistry, 1997 0-471-16392-9

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