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Kazuo Nakamoto, PHD, received his Ph.D. from the University of Osaka in 1953 and remained a lecturer until 1957. In 1958, he entered the faculty of Clark University, in 1961 moved to the Illinois Institute of Technology, and then to Marquette University in 1969, where he became the first professor of chemistry of the university. Dr. Nakamoto led the research of more than eighty-five graduate students and graduate students and published more than 225 scientific papers, twenty op-ed articles and twelve books. Page 2Kazuo Nakamoto, PHD, received his Ph.D. from the University of Osaka in 1953 and remained a lecturer until 1957. In 1958, he entered the faculty of Clark University, in 1961 moved to the Illinois Institute of Technology, and then to Marquette University in 1969, where he became the first professor of chemistry of the university. Dr. Nakamoto led the research of more than eighty-five graduate students and graduate students and published more than 225 scientific papers, twenty op-ed articles and twelve books. KAZUO NAKAMOTO is Professor emeritus of chemistry at Marquette University in Milwaukee, Wisconsin. Kazuo Nakamoto, Ph.D., received his Ph.D. from the University of Osaka in 1953 and remained a teacher until 1957. In 1958, he entered the faculty of Clark University, in 1961 moved to the Illinois Institute of Technology, and then to Marquette University in 1969, where he became the first professor of chemistry of the university. Dr. Nakamoto led the research of more than eighty-five graduate students and graduate students and published more than 225 scientific papers, twenty op-ed articles and twelve books. Work off campus? Learn about our remote access options

Inorganic molecules (ions) and ligands are classified into diatom, triatomic, four-volume, five-volume, six-volume and semi-ato types, and their normal vibration modes are illustrated and the corresponding vibration frequencies are listed for each type. Molecules of other types are grouped into boron, carbon, silicon, nitrogen, phosphorus and sulfur compounds, and for each group the structures and infrared (IC)/Ramanov spectra of individual examples are shown. Group frequency diagrams, including band assignments, are shown for phosphorus and sulphur compounds. Other group frequency diagrams include hydrogen stretching frequencies, halogen stretching frequencies, oxygen stretching and bending frequencies, inorganic ions and metal complexes containing simple coordinating ligands. 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