

range of disciplines, interested in the bio-inorganic chemistry of copper. They will also be useful to the general reader who wishes to keep abreast of the developments in this very active area of bio-inorganic chemistry. It is not likely, however, that many libraries will be able to meet the high cost of these two volumes, let alone the individual reader, unless there are several specialists to be served by them.

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Specialist Periodical Report. Spectroscopic Properties of Inorganic and Organometallic Compounds. Volume 14; D.M. Adams and E.A.V. Ebsworth, senior reporters, The Royal Society of Chemistry, London, 1982, xv + 413 pages.

The latest in this well known series of monographs covers the literature up to late 1980. The contents are as follows and in parentheses are shown the number of pages and references respectively: "Nuclear Magnetic Resonance Spectroscopy" B.E. Mann (137, 2363); "Nuclear Quadrupole Resonance Spectroscopy" K.B. Dillon (21, 143); "Rotational Spectroscopy" S. Cradock (14, 140); "Vibrational Spectra of Small Symmetric Species; Single-crystal and Other Solid-state Spectroscopy" D.M. Adams and P.D. Hatton (25, 300); "Characteristic Vibrations of Main-group Element Compounds" S. Cradock (15, 227); "Vibrational Spectra of Transition-element Compounds" J.S. Ogden (23, 413); "Vibrational Spectra of Some Co-ordinated Ligands" G. Davidson (69, 300); "Mössbauer Spectroscopy" J.D. Donaldson, S.M. Grimes, and M.J. Tricker (86, 889); "Gas-phase Molecular Structures Determined by Electron Diffraction" G. Gundersen and D.W.H. Rankin (25, 199).

The increasing amount of NMR work is reflected in the extraordinary number of references cited by Dr. Mann, but nevertheless he deals with these in a way which is still lucid and informative.

This year sees a new departure for the series, namely a chapter which deals with the determination of molecular structure in the gas phase by electron diffraction; that particular contribution provides more than an annual report since it covers the period 1977 to 1980. While electron diffraction is clearly not a spectroscopic technique, its inclusion is welcome because it impinges so often on spectroscopic results, especially of vibrational and microwave regions.

The authors are well known experts and the volume is fully up to the standard of earlier members of the series.

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