

Spectroscopic Properties of Inorganic and Organometallic Compounds, Vol. 7, A Specialist Periodical Report; N.N. Greenwood, Senior Reporter, The Chemical Society, London, 1975, xii + 699 pages, £24.00.

This Specialist Periodical Report is a review of the literature published during 1973. There are eight chapters: Nuclear Magnetic Resonance Spectroscopy by B.E. Mann (2213 references); Nuclear Quadrupole Resonance Spectroscopy by J.H. Carpenter (84 references); Microwave Spectroscopy by J.H. Carpenter (97 references); Vibrational Spectra of Small Symmetric Species and of Single Crystals by D.M. Adams (390 references); Characteristic Vibrational Frequencies of Compounds containing Main-group Elements by S.R. Stobart (455 references); Vibrational Spectra of Transition-element Compounds by M. Goldstein (528 references); Vibrational Spectra of Some Coordinated Ligands by G. Davidson (932 references) and Mossbauer Spectroscopy by R. Greatrex (652 references). This review does not cover any aspects of electronic absorption, mass, electron, or electron spin resonance spectroscopy, but the topics which are covered are done completely. Literature references appear at the bottom of the page on which they are cited, and there is a collective author index at the back. There is, unfortunately, no formula index, but in the main the topics are grouped according to element, which allows relatively quick access to the desired information. The reviews are by no means critical, but it is the extensive compilation of literature references which is of value here. Tabulations of compounds characterized and some tables of spectroscopic data are given in the chapters on vibrational spectroscopy, but the major fraction of the reviews is presented in matter-of-fact prose. The work is a valuable contribution to the literature and is an easy to use, practical source of references to spectroscopic data.

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