

Spectroscopic Properties of Inorganic and Organometallic Compounds, Volume 21; edited by G. Davidson and E.A.V. Ebsworth, The Royal Society of Chemistry, 1988, xv + 509 pages, £120, U.S.\$120, ISBN 0-85186-193-8.

The latest of this series of volumes covers the literature for the year ending late 1987; the general format will be familiar to regular readers. This volume is divided into eight chapters with the following headings (in brackets are shown the number of pages and references, respectively). "Nuclear Magnetic Resonance Spectroscopy", by B.E. Mann (116 pages, 3478 refs.); "Nuclear Quadrupole Resonance Spectroscopy", by K.B. Dillon (17 pages, 72 refs.); "Rotational Spectroscopy", by S. Cradock (16 pages, 234 refs.); "Characteristic Vibrations of Compounds of Main-group Elements", by G. Davidson (30 pages, 361 refs.); "Vibrational Spectra of Transition-element Compounds", by G. Davidson (31 pages, 393 refs.); "Vibrational Spectra of Some Co-ordinated Ligands", by G. Davidson (50 pages, 495 refs.); "Mössbauer Spectroscopy", by S.J. Clark, J.D. Donaldson, S.M. Grimes, and M.J.K. Thomas (71 pages, 461 refs.); and "Gas-phase Molecular Structures Determined by Electron Diffraction", by D.G. Anderson and D.W.H. Rankin (19 pages, 48 refs.). As in previous years, the NMR section is by far the largest, and concludes with a useful compilation of references to papers dealing with nuclei other than ^1H .

As in recent earlier volumes, the book has been produced by direct photographic reproduction from manuscript. Although the nature of the type-face is different for each single contribution, the overall appearance is clear. There are no indexes.

Inevitably, this work is one for reference rather than casual reading.

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Organometallic Chemistry Reviews; edited by A.G. Davies, E.O. Fischer, and O.A. Reutov, (Journal of Organometallic Chemistry Library 20) Elsevier, Amsterdam, 1988, 365 pages, US\$155.25, DF1295.00, ISBN 0-444-42950-6.

This volume contains 5 reviews (in brackets are shown the number of pages and references, respectively): "Synthesis and properties of carboranes(12) containing boron-element bonds", by V.V. Grushin, V.I. Bregadze, and V.N. Kalinin (62 pages, 204 refs.); "Pyridine and quinoline derivatives of Group IVB elements", by E. Lukevics and I.D. Segal (121 pages, 423 refs.); "Phase transfer catalysis in organosilicon chemistry", by Yu. Goldberg, V. Dirnens, and E. Lukevics (34 pages, 85 refs.); "Rhenium carbonyl and organometallic compounds: analysis and classification of crystallographic and structural data", by C.E. Holloway and M. Melnik (86 pages, 257 refs.); and "Metalloendichalkogenolen-metallacyclen. Chelatkomplexe elektronenarmer Übergangsmetalle", by T. Klapötke and H. Köpf (21 pages, 59 refs.).

The chapter by Grushin et al. is principally concerned with carboranes of formula $\text{RR}'\text{C}_2\text{B}_{10}\text{H}_9\text{X}$ in which for the most part the group X is attached to one of the boron atoms. However, other examples include those where X is a PMe_2 or