

## Book reviews

---

*Landolt-Börnstein. Numerical Data and Functional Relationships in Science and Technology. New series. Group II. Atomic and Molecular Physics. Supplement 4 (1973, 1974) to Volume 12, Magnetic Properties of Coordination and Organometallic Transition Metal Compounds. Sub-Volume b. Electron Paramagnetic Resonance;* by E. König and G. König. Springer Verlag, Berlin etc., 1984, xxxix + 352 pages. DM 710. ISBN 3-540-13018-7.

This latest volume in a most valuable series presents electron paramagnetic resonance data published in 1973 or 1974 for compounds of Ti (6 pages), V (30 pages), Nb (3 pages): Ta (< 1 page), Cr (23 pages), Mo (9 pages), W (3 pages), Mn (14 pages), Re (< 1 page), Fe (26 pages), Ru (3 pages), Os (< 1 page), Co (42 pages), Rh (< 1 page), Ir (< 1 page), Ni (11 pages), Pd (4 pages), Pt (1 page), Cu (136 pages), Ag (3 pages), and Au (3 pages). For each compound are given the state of the sample, the temperature of measurement, the values of  $g$ ,  $A$ , and  $\nu$ , the relevant reference(s), and, where appropriate, notes on, for example, the colour of the solution or the suggested coordination type.

The information is presented with admirable clarity, and the sub-volume is an important addition to the series dealing with electron paramagnetic resonance; that series is of special interest to chemists, and some of its components, such as this one, of particular value to inorganic and organometallic chemists. The compilations would be even more useful, of course, if they could be kept more up to date, but it will be a huge task to present all the relevant data on EPR appearing from 1974 to the present.

All good chemistry reference libraries should have this series on their shelves. The price reflects the limited scope for sales and the high cost of production of a work of this type.

*School of Chemistry and Molecular Sciences,  
University of Sussex, Brighton BN1 9QJ (Great Britain)*

COLIN EABORN

---

*Fundamental and Technological Aspects of Organo-f-Element Chemistry;* edited by T.J. Marks and I.L. Fragalà, *NATO ASI Series C: Mathematical and Physical Sciences Vol. 155*, D. Reidel Publishing Company, Dordrecht, Boston, Lancaster, 1985, xiv + 414 pages, £44.50 (U.S. \$56.00), ISBN 90-277-2053-3.

This volume, with a title clearly devised by a committee, contains the principal lectures delivered at a conference (rejoicing in the same glorious name) held in Acquafredda di Maratea, Italy, in September 1984. These were: "Organolanthanoides: review and new developments" (H. Schumann; 48 pages; 228 refs.), "4f-Elements in organic synthesis" (H.B. Kagan; 28 pages, 85 refs.),