Book review

Organometallics of the f-Elements; edited by Tobin J. Marks and R. Dieter Fischer, D. Reidel Publishing Company, Dordrecht, 517 pages, US \$ 57.50; Dfl. 110.00.

The chapters of this volume comprise the major lectures delivered at a NATO Summer School in Sogesta, Italy, September, 1978 which was organised by the editors. The topic under review is, of course, well documented in recent comprehensive surveys by Dr. Marks in Progress in Inorganic Chemistry, Volumes 24 and 25. Nevertheless the authors include many of the experts in the field. The book is prepared by a "camera-ready" technique. Besides a sixteen page subject index the contents are as follows: Cyclopentadienyl Compounds of the Actinide Elements, Basil Kanellakopulos, 37 pages, 90 references; Electronic Structure of f-Block Compounds, Norman M. Edelstein, 45 pages, 20 references; Organometallic Compounds with Lanthanide—Carbon a Bonds - One of the Last Problems in Organometallic Chemistry, Herbert Schumann, 32 pages, 110 references; Properties of Actinide-to-Carbon σ Bonds, Paul J. Fagan, Juan M. Manriquez, and Tobin J. Marks, 36 pages, 74 references; Preparation and Chemistry of Uranocenes, Andrew Streitwieser, Jr., 30 pages, 82 references; Kinetically Stable lanthanide Alkyls and Bridging Methyls, J. Holton, M.F. Lappert, D.G.H. Ballard, R. Pearce, J.L. Atwood, and W.E. Hunter, 42 pages, 62 references; Lability and Stability in f-Transition Metal Organocompounds: Some Applications of Unusual Ligands and Techniques to Their Synthesis, Kenneth W. Bagnall, 28 pages, 76 references; The Structure and Bonding of 4f and 5f Series Organometallic Compounds, Kenneth N. Raymond, 32 pages, 66 references; Optical Spectroscopy of f-Element Compounds, W.T. Carnell, 28 pages, 56 references; Nuclear Magnetic Resonance for Rare Earth Complexes: Theory, Bruce R. McGarvey, 28 pages, 60 references; NMR Spectroscopy of Organometallic Compounds of the f-Elements: Practical Applications, R. Dieter Fischer, 42 pages, 84 references; Catalysis and Other Applications of f-Element Organometallics, Alessandro Mazzei, 16 pages, 42 references; Mössbauer Spectroscopy of ²³⁷Np Organometallic Compounds, David G. Karraker, 27 pages, 29 references; Photoelectron Spectroscopy, Ignazio L. Fragal, 46 pages, 43 references; and Vibrational Spectroscopy of Some Organometallic Compounds of Actinides, Jean Goffart, 30 pages, 78 references.

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