

Book reviews

Catalysis, Science and Technology, Volume 4; edited by J.R. Anderson and M. Boudart, Springer Verlag, Berlin, 1983, 289 pages, DM 132.00.

This volume of the series contains only one short review which could be of direct interest to organometallic chemists. Entitled "Catalytic Processes in Organic Conversions" (P.N. Rylander), it covers hydrogenation, dehydrogenation, oxidation, olefin metathesis, and ammonolysis. The treatment is descriptive, and although it covers industrial procedures in the main, it concentrates primarily upon general relationships between catalyst, functionality, and reaction. There is intentionally, very little discussion of mechanism, though some references to such topics are given. Most references are to patents and more technical publications, and the material is more likely to be useful for background information, perhaps for lecture preparation, than for research purposes.

The remaining two reviews, on the Nature and Estimation of Functional Groups on Solid Surfaces (H.-P. Boehm and H. Knözunger) and on the Kinetics of Chemical Processes on Well-defined Surfaces (G. Ertl) are authoritative and well documented, but not of primary interest to organometallic chemists.

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