we have come to expect from this series. There are few errors, presentation is excellent and they are well referenced, generally to the end of 1985. This series should be considered indispensible to every chemistry library, and the publishers are to be commended in that they have kept the price suffieciently low that specific volumes could be considered for individual purchase.

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Mechanisms of Inorganic and Organometallic Reactions, Volume 5; Edited by M.V. Twigg, Plenum Press, New York, 1988, xvii + 466, pages, ISBN 0-306-42841-5, US$85.-

This book is a continuation of a series which is now well established, and covers the relevant literature for the period July 1985–December 1986, although some earlier work is discussed, where appropriate, for comparative purposes. The chapter titles, with authors (number of pages and number of references in parentheses), are as follows: Electron Transfer: General and Theoretical, by R.D. Cannon (3 pages, 29 refs.); Redox Reactions between Two Metal Complexes, by A.G. Lappin (21 pages, 106 refs.); Metal–Ligand Redox Reactions, by A. Bakác and J.H. Espenson (39 pages, 360 refs.); (Substitution) Reactions of Compounds of the Nonmetallic Elements, by N. Winterton (43 pages, 735 refs.); Substitution Reactions of Inert-Metal Complexes — Coordination Numbers 4 and 5, by R.J. Cross (21 pages, 85 refs.); Substitution Reactions of Inert-Metal Complexes — Coordination Numbers 6 and Above: Chromium, by D.A. House (24 pages, 188 refs.); Substitution Reactions of Inert-Metal Complexes — Coordination Numbers 6 and Above: Cobalt, by R.W. Hay (28 pages, 114 refs.); Substitution Reactions of Inert-Metal Complexes — Coordination Numbers 6 and Above: Other Inert Centers, by J. Burgess (22 pages, 176 refs.); Substitution Reactions of Labile Metal Complexes, by S.F. Lincoln (24 pages, 119 refs.); Substitution and Insertion Reactions (of Organometallic Compounds), by D.J. Darensbourg and D.J. Mangold (31 pages, 96 refs.); Metal–Alkyl and Metal–Hydride Bond Formation and Fission; Oxidative Addition and Reductive Elimination, by D.A. Sweigart and N.J. Stone (23 pages, 171 refs.); Reactivity of Coordinated Hydrocarbons, by L.A.P. Kane-Maguire (19 pages, 73 refs.); Rearrangements, Intramolecular Exchange, and Isomerizations of Organometallic Compounds, by B.E. Mann (18 pages, 199 refs.); Homogeneous Catalysis of Organic Reactions by Complexes of Metal Ions, by D.P. Riley and S.J. Tremont (40 pages, 182 refs.); and Volumes of Activation for Inorganic and Organometallic Reactions: A Tabulated Compilation, by R. van Eldik (11 pages, 85 refs.). Additionally, there is a Subject Index (13 pages).

It will be evident that Chapters 10–15 (the last six) are of principal interest to organometallic chemists.

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