

BOOK REVIEWS

Advances in Catalysis Vol. 29. Edited by D. D. ELEY, HERMAN PINES, AND PAUL B. WEISZ. Academic Press, New York, 334 pp. 1980 \$45.00.

The "Advances in Catalysis" series has served catalytic chemists well for nearly three decades. The present issue, Vol. 29, is no exception to the high standards maintained over the years. It contains reviews of seven areas of interest. These are:

(1) "Reaction Kinetics and Mechanism on Metal Single Crystal Surfaces," by, Robert J. Madix.

(2) "Photoelectron Spectroscopy and Surface Chemistry," by, M. W. Roberts.

(3) "Site Density and Entropy Criteria in Identifying Rate-Determining Steps in Solid-Catalyzed Reactions," by, Russell W. Maatman.

(4) "Organic Substituent Effects as Probes for the Mechanism of Surface Catalysis," by, M. Kraus.

(5) "Enzyme-like Synthetic Catalysts (Synzymes)," by, G. P. Royer.

(6) "Hydrogenolytic Behaviors of Asymmetric Diarylmethanes," by, Yasuo Yamazaki and Tadashi Kawai.

(7) "Metal-Catalyzed Cyclization Reactions of Hydrocarbons," by, Zoltan Paal.

This book will be a welcome addition to the libraries of all workers in this field.

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