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A review of: "Electron Transfer in Inorganic, Organic and Biological Systems. Edited by J. R. Bolton, N. Mataga and G. McLendon, *Advances in Chemistry Series 228*, American Chemical Society: Washington 1991. viii 295 pp., \$89.95. ISBN 0-8412-1846-3."

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BOOK REVIEW

Electron Transfer in Inorganic, Organic and Biological Systems. Edited by J. R. Bolton, N. Mataga and G. McLendon, Advances in Chemistry Series 228, American Chemical Society: Washington 1991. viii + 295 pp., \$89.95. ISBN 0-8412-1846-3.

This book is based on presentations given at the Conference of the Pacific Basin Chemical Societies held in Hawaii in December 1989. The book contains 17 articles and an epilogue by R. A. Marcus. The general areas addressed in the book are (i) basic electron transfer (ET) theory, (ii) distance dependence of electronic and nuclear factors and their significance for ET in larger systems, (iii) theoretical and experimental investigations of photoinduced charge separation and recombination reactions, (iv) effects of solvent, temperature, bridge and free energy differences on photoinduced intramolecular ET, (v) long range ET in proteins studied by laser flash photolysis and application of external electric fields. In the book's final two chapters (J. R. Miller and R. A. Marcus) questions are raised and future investigations are proposed.

Overall it is a very interesting and stimulating book. However, it does not cover more elaborate theoretical work and elementary reactions in organic chemistry ($S_{RN}1$, S_N2 , S_{ET}). The emphasis of the book is on photoinduced ET in biological, bioorganic and bioinorganic systems.

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