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Web Release Date: July 25, 2000

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University of California, San Diego

This is an excellent and authoritative book that covers not only concerted reactions but also stepwise reactions originally proposed to be concerted. The book is very densely written, with much information, and with a careful reasoning style that demands concentration from the reader.

The classes of reactions considered are proton transfers, nucleophilic displacements at unsaturated carbon, nucleophilic displacements at saturated carbon, displacements at heteroatoms, cyclic reactions, and enzyme reactions. Addition reactions are omitted, and eliminations and electrophilic substitutions are discussed very briefly. Many readers may be interested in only one class

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How is it ever possible to obtain evidence for a concerted reaction? How can the presence of an intermediate be rigorously excluded? Even if experimental results fail to support an intermediate, it might be too unstable to detect or trap. Yet there are convincing observations to exclude intermediates and support concertedness. Three of the most powerful are (1) a strictly linear free-energy correlation without the deviation associated with a change of rate-limiting step, (2) an estimated or extrapolated lifetime that is too short for a putative intermediate's existence, and (3) the absence of double isotope fractionation (isotope effect on an

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