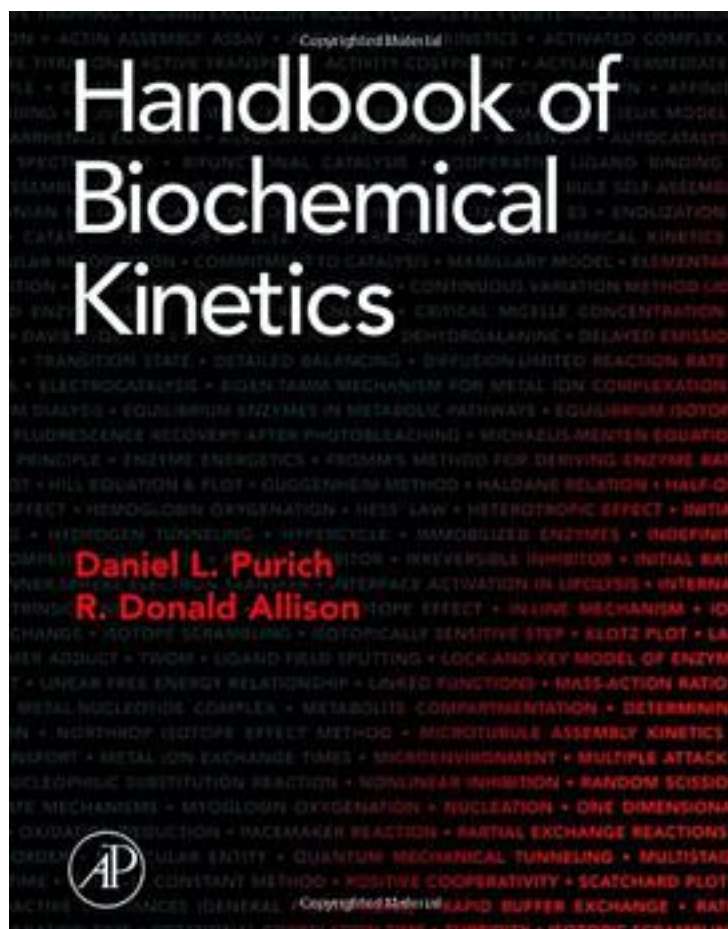


Handbook of Biochemical Kinetics



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Biochemical kinetics refers to the rate at which a reaction takes place. Kinetic mechanisms have played a major role in defining the metabolic pathways, the mechanistic action of enzymes, and even the processing of genetic material. "The Handbook of Biochemical Kinetics" provides the 'underlying scaffolding' of logic for

kinetic approaches to distinguish rival models or mechanisms. The handbook also comments on techniques and their likely limitations and pitfalls, as well as derivations of fundamental rate equations that characterize biochemical processes. This book contains over 750 pages devoted to theory and techniques for studying enzymic and metabolic processes, and over 1,500 definitions of kinetic and mechanistic terminology, with key references. It offers practical advice on experimental design of kinetic experiments. It features extended step-by-step methods for deriving rate equations. It includes over 1,000 enzymes, complete with EC numbers, reactions catalyzed, and references to reviews and/or assay methods, and over 5,000 selected references to kinetic methods appearing in the "Methods in Enzymology" series. There is a 72-page Word finder that allows the reader to search by keywords. This book features summaries of mechanistic studies on key enzymes and protein systems. It includes over 250 diagrams, figures, tables, and structures.

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