



Fundamentals of Enzyme Kinetics

By Athel Cornish-Bowden

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Fundamentals of Enzyme Kinetics details the rate of reactions catalyzed by different enzymes and the effects of varying the conditions on them. The book includes the basic principles of chemical kinetics, especially the order of a reaction and its rate constraints. The text also gives an introduction to enzyme kinetics - the idea of an enzyme-substrate complex; the Michaelis-Menten equation; the steady state treatment; and the validity of its assumption. Practical considerations, the derivation of steady-state rate equations, inhibitors and activators, and two-substrate reactions are also explained. Problems after the end of each chapter have also been added, as well as their solutions at the end of the book, to test the readers' learning.

The text is highly recommended for undergraduate students in biochemistry who wish to study about enzymes or focus completely on enzymology, as most of the mathematics used in this book, which have been explained in detail to remove most barriers of understanding, is elementary.

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