

1. Record Nr.	UNINA9910830795403321
Autore	Malcata F. Xavier
Titolo	Analysis of Enzyme Reaction Kinetics / / F. Xavier Malcata
Pubbl/distr/stampa	Hoboken, NJ : , : John Wiley & Sons Ltd, , [2023] ©2023
ISBN	1-119-49023-5 1-119-49025-1
Edizione	[First edition.]
Descrizione fisica	1 online resource (1434 pages)
Collana	Enzyme Reaction Engineering Series
Classificazione	TEC009010
Disciplina	572.744
Soggetti	Enzyme kinetics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	volume 1. Mathematical approach to rate expressions ; Statistical approach to rate expressions -- volume 2. Physical modulation of reaction rate ; Chemical modulation of reaction rate.
Sommario/riassunto	"Analysis of Enzyme Reaction Kinetics is the second set in a unique 11-volume collection on Enzyme Reactor Engineering. This two-volume set comprehensively describes rate expressions pertaining to enzymatic reactions, including modulation by physicochemical factors - as tools for prediction and control of how fast substrate(s) are transformed to products, an essential element of mass balances to, and practical operation of (enzyme) reactors. Therefore, rate expressions are mathematically derived from mechanistic postulates, and complemented by appropriate statistical approaches, in attempts to fit them to experimental data (first volume); physical and chemical modulation of reaction rate is discussed next, upon both enzyme-catalyzed and enzyme deactivation reactions (second volume)"--