



# Enzymes: A Practical Introduction to Structure, Mechanism, and Data Analysis

By Robert A. Copeland

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**Enzymes: A Practical Introduction to Structure, Mechanism, and Data Analysis** By Robert A. Copeland

**Fully updated and expanded-a solid foundation for understanding experimental enzymology.**

This practical, up-to-date survey is designed for a broad spectrum of biological and chemical scientists who are beginning to delve into modern enzymology.

**Enzymes, Second Edition** explains the structural complexities of proteins and enzymes and the mechanisms by which enzymes perform their catalytic functions. The book provides illustrative examples from the contemporary literature to guide the reader through concepts and data analysis procedures. Clear, well-written descriptions simplify the complex mathematical treatment of enzyme kinetic data, and numerous citations at the end of each chapter enable the reader to access the primary literature and more in-depth treatments of specific topics.

This **Second Edition of Enzymes: A Practical Introduction to Structure, Mechanism, and Data Analysis** features refined and expanded coverage of many concepts, while retaining the introductory nature of the book. Important new features include:

- A new chapter on protein-ligand binding equilibria
- Expanded coverage of chemical mechanisms in enzyme catalysis and experimental measurements of enzyme activity
- Updated and refined discussions of enzyme inhibitors and multiple substrate reactions
- Coverage of current practical applications to the study of enzymology

Supplemented with appendices providing contact information for suppliers of reagents and equipment for enzyme studies, as well as a survey of useful Internet sites and computer software for enzymatic data analysis, **Enzymes, Second Edition** is the ultimate practical guide for scientists and students in biochemical, pharmaceutical, biotechnical, medicinal, and agricultural/food-related research.

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#### Review

"...a welcome volume for any reader concerned with this important class of biological.... The book is interesting, informative, and very readable." (*Choice*, Vol. 38, No. 7, March 2001)

"...an introductory textbook intended for senior undergraduate or graduate students...coverage includes chemical bonds and reactions, structural components of enzymes..." (*SciTech Book News*, March 2001)

"...to describe this text in one word, I would say that it is thorough?a good text for those interested in enzyme mechanisms and kinetics." (*Journal of Medicinal Chemistry*, Vol. 45, No. 235, 2002)

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