

Fundamentals of Enzymology: The Cell and Molecular Biology of Catalytic Proteins

By Nicholas C. Price, Lewis Stevens

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Since the publication of the successful and popular second edition of *Fundamentals of Enzymology* in 1989, a large increase in the knowledge of several aspects of enzymology has occurred -- particularly in the areas of structural characterization of enzymes and bioinformatics. This new edition places appropriate emphasis on the new knowledge while consolidating the strengths of the previous editions. As before, this volume gives a thorough overview of the field that includes: enzyme purification and characterization; enzyme structure (including information on World Wide Web sites); enzyme kinetics; the mechanisms and control of enzyme action; enzyme folding; how enzymes act *in vivo*; enzyme synthesis and degradation; and clinical and industrial applications of enzymology. Furthermore, the integration of these themes is stressed throughout the book, making it useful for advanced undergraduates in biochemistry and molecular biology.

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Editorial Review

Review

"A textbook for an introductory undergraduate course for students in biochemistry and related biological sciences who have completed an introductory course in biochemistry. Price and Stevens (both biological sciences, U. of Stirling, Scotland) explore the kinetics, structure, and mechanisms of enzymes in systems of increasing complexity from isolated enzymes to those in the cell. Earlier editions appeared in 1982 and 1989."--*SciTech Book News*

"Enzymology is currently undergoing something of a renaissance and, with the completion of several genome sequencing projects, attention is turning from simply finding the structures of proteins to attempting to understand the structure-function relationships of proteins. Furthermore, the generation of new enzyme catalysts by directed evolution is opening the way to greater industrial use of enzymes. Enzymology is thus one of the most exciting areas of biochemistry today. The appearance of a third edition of *Fundamentals of Enzymology ... by Price and Stevens is, therefore, particularly timely. ... The book makes a valuable addition to the bookshelf of a wide range of scientists, all of whom have some interest in how proteins catalyse reactions. ... [It] remains an extremely useful textbook for undergraduate students and their teachers of enzymology and is a useful reference work for postgraduate students embarking on research in this area.*"--*Trends in Biochemical Sciences*

About the Author

Nicholas Price is at University of Stirling. Lewis Stevens is at University of Stirling.

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