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Enzyme engineering. Enzyme engineering is the application of modifying an enzyme's structure (and, thus, its function) or modifying the catalytic activity of isolated enzymes to produce new metabolites, to allow new (catalyzed) pathways for reactions to occur, or to convert from some certain compounds into others (biotransformation). These products are useful as chemicals, pharmaceuticals, fuel, food, or agricultural additives.

Protein engineering - Wikipedia

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Enzyme engineering can be used to broaden the substrate range of an enzyme, increase the stability at elevated temperature, at acidic pH, or in organic solvents, and to improve enantioselectivity. To be able to efficiently screen mutant libraries, a high-throughput screening system is crucial (for a review see Chapter 7.2).

Enzyme Engineering - an overview | ScienceDirect Topics

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In recent years, there have been considerable developments in techniques for the investigation and utilisation of enzymes. With the assistance of a co-author, this popular student textbook has been updated to include techniques such as membrane chromatography, aqueous phase partitioning, engineering recombinant proteins for purification and due to the rapid advances in bioinformatics/proteomics, a discussion of the analysis of complex protein mixtures by 2D-electrophoresis and RP/HPLC prior to sequencing by mass spectroscopy. Written with the student firmly in mind, no previous knowledge of biochemistry, and little of chemistry, is assumed. It is intended to provide an introduction to enzymology, and a balanced account of all the various theoretical and applied aspects of the subject which are likely to be included in a course. Provides an introduction to enzymology and a balanced account of the theoretical and applied aspects of the subject Discusses techniques such as membrane chromatography, aqueous phase partitioning and engineering recombinant proteins for purification Includes a discussion of the analysis of complex protein mixtures by 2D-electrophoresis and RP/HPLC prior to sequencing by mass spectroscopy

To commemorate the 400th anniversary of Galileo's historic first recorded astronomical observations and to coincide with the United Nations International Year of Astronomy 2009, Horwood Publishing is delighted to announce the publication of this third edition by Sir Patrick Moore, one of the great presenters of astronomy in our time. It tells the epic story of the historical development of astronomy which caused a revolutionary change in human outlook, in its impact upon both scientific thinking and religious belief. It is a fascinating story, well researched and told in a scholarly yet exciting narrative that will be read with enjoyment and profit by astronomers, historians and the general public. Formerly titled The Great Astronomical Revolution, the book includes a new foreword, new illustrations and colour plates, due Autumn 2009.

Understanding Enzymes: Function, Design, Engineering, and Analysis focuses on the understanding of enzyme function and optimization gained in the past decade, past enzyme function analysis, enzyme engineering, and growing insights from the simulation work and nanotechnology measurement of enzymes in action in vitro or in silico. The book also presents new insights into the mechanistic function and understanding of enzyme reactions, as well as touching upon structural characteristics, including X-ray and nuclear magnetic resonance (NMR) structural methods. A major focus of the book is enzyme molecules' dependency on dynamic and biophysical environmental impacts on their function in ensembles as well as single molecules. A wide range of readers, including academics, professionals, PhD and master's students, industry experts, and chemists, will immensely benefit from this exclusive book.

Publisher Description

This clear and lucid book helps towards an understanding of the principles of enzymology, a subject with a somewhat undeserved reputation for being difficult. The subject is explained most carefully, without rushing or cutting corners, in a coverage which is balanced, readable and comprehensive, accounting for both theory and applications. The book will act as a bridge for those wishing to progress to more advanced and specialised areas. New material has been added since publication of the first edition, revealing advances made since 1980, including NMR spectroscopy, HPLC, immunoassay, genetic engineering and structures of oligomeric enzymes. Fresh and stimulating problems have been devised, diagrams redrawn and sections on obsolete techniques removed to make way for the new material. The approach taken throughout encourages, where appropriate, correct answers to problems, thereby reinforcing the reader's understanding of enzymology by facing real-life difficulties.

Enzyme : An Introduction ☐ Enzyme Structure ☐ Enzyme Specificity & Catalysis ☐ Purification & Characterization Of Enzymes ☐ Enzyme Assay ☐ Enzyme Engineering ☐ Enzyme Microenvironment : Catalysis In Non-Aqueous Solvent ☐ Bioenergetics ☐ Introduction To Metabolism ☐ Knzyme Kinetics ☐ Single Substrate Enzyme Inhibition ☐ Kinetics Of Multisubtrate Enzymes ☐ Enzyme'S Regulation And Cooperativity ☐ Enzymes Immbilisation Techniques☐ Enzyme Biosensor

Includes Part 1, Number 2: Books and Pamphlets, Including Serials and Contributions to Periodicals July - December)

A comprehensive, 20-volume reference encyclopedia on science and technology.

This book compiles detailed information concerning a dozen of the best known allosteric enzymes, and so allows the comparison of their regulatory mechanisms and the confrontation of these mechanisms with the theoretical models. Stimulating and unexpected ideas emerge from these comparisons and emphasize the importance of developing various methods of investigation such as crystallography, X-ray solution scattering, and the study of fast movements in proteins and site-directed mutagenesis. This book is addressed to students and researchers interested in structure-function relationship in proteins, enzymology and metabolic regulation. It is also a basis for teaching.

Corporate Governance is a comprehensive textbook specially designed to meet the requirements of postgraduate management students. It provides an in-depth analysis of the core concepts and supplements them with relevant examples, exhibits and case studies.The book begins with an exhaustive introductory chapter defining corporate governance and a director's role in a company. Further, divided into four parts, part 1 covers types of corporations, theories and models of governance. It also examines the events which have led to the current thrust ofcorporate governance addressing the Cadbury report in UK, Sarbanes-Oxley Act, 2002 in USA as well as the committees constituted by SEBI. Part 2 elaborates on the structure of the board and its development process. It also highlights the issues related to compensation, performance review of theDirector as well as the importance of leveraging good governance for competitive advantage. Part 3 gives a broad view of governance related problems associated with typical ownership patterns, and capital market institutions from a stakeholder's perspective. The ground rules for a director toperform his responsibilities and duties are also discussed in this part. The book concludes with a chapter discussing the future of corporate governance in part 4.Owing to its comprehensive coverage and approach, students will find this book useful. It will also serve as a veritable guide for professionals owing to the inclusion of varied examples and case studies.

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