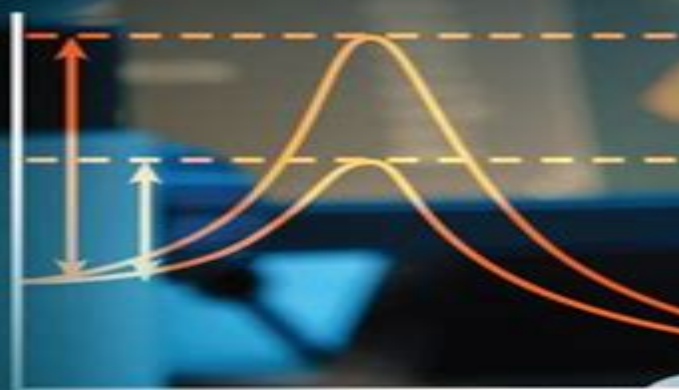


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Problem Solving in Enzyme Biocatalysis



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Peter Grunwald



Problem Solving In Enzyme Biocatalysis:

Problem Solving in Enzyme Biocatalysis Andrés Illanes, Lorena Wilson, Carlos Vera, 2014 The only book to approach enzyme kinetics with a problem solving focus for practical applications in the food pharmaceutical and fine chemistry industry

Problem Solving in Enzyme Biocatalysis Andrés Illanes, Lorena Wilson, Carlos Vera, 2013-10-02 Enzyme biocatalysis is a fast growing area in process biotechnology that has expanded from the traditional fields of foods detergents and leather applications to more sophisticated uses in the pharmaceutical and fine chemicals sectors and environmental management Conventional applications of industrial enzymes are expected to grow with major opportunities in the detergent and animal feed sectors and new uses in biofuel production and human and animal therapy In order to design more efficient enzyme reactors and evaluate performance properly sound mathematical expressions must be developed which consider enzyme kinetics material balances and eventual mass transfer limitations With a focus on problem solving each chapter provides abridged coverage of the subject followed by a number of solved problems illustrating resolution procedures and the main concepts underlying them plus supplementary questions and answers Based on more than 50 years of teaching experience Problem Solving in Enzyme Biocatalysis is a unique reference for students of chemical and biochemical engineering as well as biochemists and chemists dealing with bioprocesses Contains Enzyme properties and applications enzyme kinetics enzyme reactor design and operation 146 worked problems and solutions in enzyme biocatalysis

Enzyme Biocatalysis Andrés Illanes, 2008-06-19 This book was written with the purpose of providing a sound basis for the design of enzymatic reactions based on kinetic principles but also to give an updated vision of the potentials and limitations of biocatalysis especially with respect to recent applications in processes of organic synthesis The first five chapters are structured in the form of a textbook going from the basic principles of enzyme structure and function to reactor design for homogeneous systems with soluble enzymes and heterogeneous systems with immobilized enzymes The last chapter of the book is divided into six sections that represent illustrative case studies of biocatalytic processes of industrial relevance or potential written by experts in the respective fields We sincerely hope that this book will represent an element in the toolbox of graduate students in applied biology and chemical and biochemical engineering and also of undergraduate students with formal training in organic chemistry biochemistry thermodynamics and chemical reaction kinetics Beyond that the book pretends also to illustrate the potential of biocatalytic processes with case studies in the field of organic synthesis which we hope will be of interest for the academia and professionals involved in R D I If some of our young readers are encouraged to engage or persevere in their work in biocatalysis this will certainly be our more precious reward

Enzyme or Whole Cell Immobilization for Efficient Biocatalysis: Focusing on Novel Supporting Platforms and Immobilization Techniques Wen-Yong Lou, Jun Ge, Changzhu Wu, Jesús Fernández Lucas, 2021-04-21

Immobilized Biocatalysts Peter Grunwald, 2018-11-14 This book is a printed edition of the Special Issue Immobilized Biocatalysts that was published in Catalysts

Bionanocatalysis:

From Design to Applications Roberto Fernandez-Lafuente, Muhammad Bilal, Hafiz M.N. Iqbal, Tuan Anh Nguyen, 2023-08-22 *Bionanocatalysis From Design to Applications* discusses recent advances in nano biocatalysis fundamental design concepts and their applications in a variety of industry sectors Strategies for immobilizing enzymes onto nanocarriers made from polymers silicas carbons and metals by physical adsorption covalent binding cross linking or specific ligand spacers are also discussed as are the advantages problems and solutions derived from the use of non porous nanomaterials for enzyme immobilization This is an important reference source for materials scientists and chemical engineers who would like to learn more about how nanobiocatalysts are designed and used Biocatalysis has emerged as a sustainable technique to synthesize valuable commodity chemicals with wide applications in various industrial domains such as in agriculture cosmetics pharmaceuticals biofuels biosensors biofuel cells biochemicals and foods The synergistic integration of bio catalysis engineering with nanostructured materials as unique multifunctional carrier matrices has emerged as a new interface of nano biocatalysis NBC Outlines the major nanocarriers used in nanobiocatalyst design Explores the properties of nanomaterials that make them effective biocatalysts Assesses the challenges of manufacturing nanobiocatalysts on an industrial scale *Biocatalyst Immobilization* Maria Lujan Ferreira, 2022-11-12 *Biocatalyst Immobilization Foundations and Applications* provides a comprehensive overview of biocatalytic immobilization processes as well as methods for study characterization and application Early chapters discuss current progress in enzyme immobilization and methods for selecting and pretreating enzymes prior to immobilization with an emphasis on navigating common challenges and employing enzyme supports and post immobilization treatments to impact enzymatic activity Process based chapters instruct on measuring and reporting on enzyme immobilization efficiency protein final content quantification of reaction products and the use of nanomaterials to characterize immobilized enzymes Later chapters examine recent advances including novel enzymatic reactors multi enzymatic biocatalysts enzymatic biosensors whole cell immobilization the industrial application of immobilized enzymes and perspectives on future trends Provides a thorough overview of biocatalyst and enzyme immobilization for research and practical application Presents methods based content that instructs in enzyme immobilization pretreatment enzyme supports post immobilization treatments measuring enzyme immobilization efficiency quantification of reaction products and whole cell immobilization Features chapter contributions from international leaders in the field *Biocatalysis and Nanotechnology* Peter Grunwald, 2017-10-25 *Nanobiocatalysis* has rapidly developed into a subarea of enzyme biotechnology It combines the advances in nanotechnology that have generated nanoscale materials of different sizes shapes and physicochemical properties and the excellent characteristics of biocatalysts into an innovative technology This book provides an overview of the various relations between nanotechnology and biocatalysis It discusses the fabrication and application of nanomaterials for the immobilization of enzymes used in the sustainable production of goods and chemicals Nanosupports have several advantages compared with bulk solid materials because of their high surface area

which results in a significantly reduced mass transfer limitation and comparatively high enzyme loading These characteristics are also of great use for applications in the fields of enzymatic biosensors biofuel cells bioelectronics and photoelectrochemical analyte detection where conductive nanomaterials improve the rate of electron transfer The book also presents an overview of nanotoxicology and covers nanostructured enzyme catalysis in organic solvents and its potential application for biodiesel production probing of enzymatic activity and identification of enzyme functions of inorganic nanoparticles as enzyme mimics

Pharmaceutical Biocatalysis Peter Grunwald, 2019-11-07 This volume provides an insight into the future strategies for commercial biocatalysis with a focus on sustainable technologies together with chemoenzymatic and biotechnological approaches to synthesize various types of approved and new active pharmaceutical ingredients APIs via proven and latest synthetic routes using single step biocatalytic or enzyme cascade reactions Many of these drugs act as enzyme inhibitors as discussed in a chapter with a variety of examples The targeted enzymes are involved in diseases such as different cancers metastatic and infectious diseases osteoporosis and cardiovascular disorders The biocatalysts employed for API synthesis include hydrolytic enzymes alcohol dehydrogenases laccases imine reductases reductive aminases peroxygenases cytochrome P450 enzymes polyketide synthases transaminases and halogenases Many of them have been improved with respect to their properties by engineering methods The book discusses the syntheses of drugs including alkaloids and antibiotics non ribosomal peptides antimalarial and antidiabetic drugs prenylated xanthenes antioxidants and many important chiral intermediates required for the synthesis of pharmaceuticals

Biocatalysis for Practitioners

Gonzalo de Gonzalo, Iván Lavandera, 2021-04-13 This reference book originates from the interdisciplinary research cooperation between academia and industry In three distinct parts latest results from basic research on stable enzymes are explained and brought into context with possible industrial applications Downstream processing technology as well as biocatalytic and biotechnological production processes from global players display the enormous potential of biocatalysts Application of extreme reaction conditions i e unconventional such as high temperature pressure and pH value biocatalysts are normally used within a well defined process window leads to novel synthetic effects Both novel enzyme systems and the synthetic routes in which they can be applied are made accessible to the reader In addition the complementary innovative process technology under unconventional conditions is highlighted by latest examples from biotech industry

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