

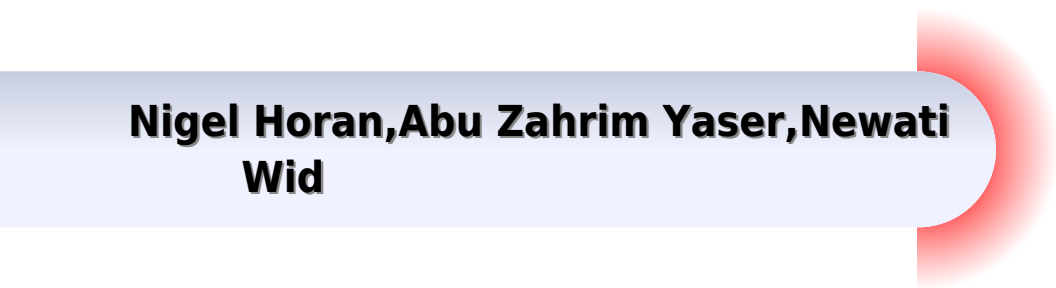
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Developments in Sustainable Chemical and Bioprocess Technology

 Springer

Developments In Sustainable Chemical And Bioprocess Technology

**Nigel Horan, Abu Zahrim Yaser, Newati
Wid**



Developments In Sustainable Chemical And Bioprocess Technology:

Developments in Sustainable Chemical and Bioprocess Technology Ravindra Pogaku, Awang Bono, Christopher Chu, 2013-11-26 Environmental sustainability and development is of critical importance. Technological advances in the production of new energy sources are making their way into our lives in more and more depth every day. However, there is an urgent need to address the technological challenges and advancement of the various chemical and bio processes to maintain the dynamic sustainability of our energy needs. Toward that end, an attempt is being made to look at recent advances, key issues still faced, and where possible, offer suggestions on alternative technologies to optimize sustainable processes. Still considered a new area of science, energy sources themselves are still being discovered, meaning what is financially viable in the current marketplace is changing. For example, energy from plants has not been financially viable in the past because of the high cost of growing, harvesting, breaking down cell walls, disposal of waste products, etc. Materials used to derive energy from sustainable resources is changing, making previously high cost processes more efficient. It is crucial that the industry as a whole works in tandem to develop crops that new technological advances make financially feasible. This book will cover recent advances in the chemicals, bioprocesses, and other materials used in growing and extracting energy from sustainable products. Membrane cell wall digestion issues will also be covered, as well as recovering maximal amounts of energy from sources to limit waste. Finally, a section on safety and control will be presented, which has been poorly covered in other publications.

Biodiesel Technology and Applications Inamuddin, Mohd Imran Ahamed, Rajender Boddula, Mashallah Rezakazemi, 2021-07-21 BIODIESEL This outstanding new volume provides a comprehensive overview on biodiesel technologies covering a broad range of topics and practical applications, edited by one of the most well respected and prolific engineers in the world and his team. Energy technologies have attracted great attention due to the fast development of sustainable energy. Biodiesel technologies have been identified as the sustainable route through which overdependence on fossil fuels can be reduced. Biodiesel has played a key role in handling the growing challenge of a global climate change policy. Biodiesel is defined as the monoalkyl esters of vegetable oils or animal fats. Biodiesel is a cost effective, renewable, and sustainable fuel that can be made from vegetable oils and animal fats. Compared to petroleum based diesel, biodiesel would offer a non-toxicity, biodegradability, improved air quality, and positive impact on the environment. Energy security, safe to handle, store, and transport, and so on. Biodiesels have been used as a replacement of petroleum diesel in transport vehicles, heavy duty trucks, locomotives, heat oils, hydrogen production, electricity generators, agriculture, mining, construction, and forestry equipment. This book describes a comprehensive overview covering a broad range of topics on biodiesel technologies and allied applications. Chapters cover history, properties, resources, fabrication methods, parameters, formulations, reactors, catalysis, transformations, analysis, in situ spectroscopies, key issues, and applications of biodiesel technology. It also includes biodiesel methods, extraction strategies, biowaste utilization, oleochemical resources, non-edible feedstocks, heterogeneous

catalysts patents and case studies Progress challenges future directions and state of the art biodiesel commercial technologies are discussed in detail This book is an invaluable resource guide for professionals faculty students chemical engineers biotechnologists and environmentalists in these research and development areas This outstanding new volume Summarizes the recent developments in this rapidly developing multi disciplinary field Provides the reader with a practical understanding of biodiesel technology toward the real world applications Formulates concepts case studies patents and applications helpful in decision making and problem solving in a single resource Delivers state of the art information on biodiesel technology Audience Chemical and process engineers and other professionals faculty students scientists biotechnologists and environmental engineers

Chemical and Bioprocess Engineering Siddharth

Venkatesh,2025-02-20 Chemical and Bioprocess Engineering Innovations is a comprehensive and accessible guide exploring the intricate world where chemistry and biology converge Tailored for a global audience with a focus on the United States this book is an indispensable resource for students professionals and researchers in chemical and bioprocess engineering The book demystifies complex concepts offering a user friendly journey through fundamental principles such as chemical engineering thermodynamics and fluid mechanics Grounded in real world applications each chapter bridges theory and practice emphasizing the role of chemical and bioprocess engineering in shaping the nation s technological landscape Uniquely this book addresses traditional chemical processes and delves into bioprocessing covering genetic engineering fermentation and bioseparations As the US leads in technological innovation readers gain the knowledge and skills to navigate challenges and opportunities in chemical and biological processes Emphasizing sustainability and green engineering the book includes real world case studies from diverse industries highlighting eco friendly practices It integrates the latest advancements in bio based materials preparing the next generation of engineers for sustainable and ethical practices Promoting a holistic understanding that transcends traditional boundaries the book draws from biology chemistry and engineering Exercises and practical examples in each chapter foster critical thinking and problem solving skills encouraging active contribution to the field Chemical and Bioprocess Engineering Innovations serves as a valuable reference for seasoned professionals and a companion for learners keeping readers abreast of the latest developments in this ever evolving field

Development of Sustainable Bioprocesses Elmar Heinzle,Arno P. Biber,Charles L. Cooney,2007-01-11 Bioprocess technology involves the combination of living matter whole organism or enzymes with nutrients under laboratory conditions to make a desired product within the pharmaceutical food cosmetics biotechnology fine chemicals and bulk chemicals sectors Industry is under increasing pressure to develop new processes that are both environmentally friendly and cost effective and this can be achieved by taking a fresh look at process development namely by combining modern process modeling techniques with sustainability assessment methods Development of Sustainable Bioprocesses Modeling and Assessment describes methodologies and supporting case studies for the evolution and implementation of sustainable bioprocesses

Practical and industry focused the book begins with an introduction to the bioprocess industries and development procedures Bioprocesses and bioproducts are then introduced together with a description of the unit operations involved Modeling procedures a key feature of the book are covered in chapter 3 prior to an overview of the key sustainability assessment methods in use environmental economic and societal The second part of the book is devoted to case studies which cover the development of bioprocesses in the pharmaceutical food fine chemicals cosmetics and bulk chemicals industries Some selected case studies include citric acid biopolymers antibiotics biopharmaceuticals Supplementary material provides hands on materials so that the techniques can be put into practice These materials include a demo version of SuperPro Designer software used in process engineering and models of all featured case studies excel sheets of assessment methods Monte Carlo simulations and exercises Previously available on CD ROM the supplementary material can now be accessed via <http://booksupport.wiley.com> by entering the author name book title or isbn and clicking on the desired entry This will then give a listing of all the content available for download Please read any text files before downloading material

Biopolymers and Their Industrial Applications Sabu Thomas, Sreeraj Gopi, Augustine Amalraj, 2020-10-31 Biopolymers and Their Industrial Applications From Plant Animal and Marine Sources to Functional Products is a detailed guide to the use of biopolymers for advanced applications across a range of key industries In terms of processing and cost bio based polymers are becoming increasingly viable for an ever broadening range of novel industrial applications The book begins with an overview of biopolymers explaining resources demands sustainability life cycle assessment LCA modeling and simulation and classifications Further in depth chapters explore the latest techniques and methodologies for isolation and physicochemical characterization materials selection and processing for blends and composites Chapters 6 to 14 each focus on the preparation and applications of biopolymers in a specific industrial area including food science and nutraceuticals medicine and pharmaceuticals textiles cosmeceutical packaging adhesives and automotive 3D printing super capacitor and energy storage devices and environmental applications The final chapter compares and analyzes biopolymers alongside synthetic polymers also offering valuable insight into social economic and environmental aspects This is an essential resource for those seeking to understand research or utilize biopolymers in industrial applications This includes researchers scientists and advanced students working in biopolymers polymer science polymer chemistry biomaterials materials science nanotechnology composites and biotechnology This is a highly valuable book for scientists R D professionals designers and engineers across multiple industries and disciplines who are looking to utilize biopolymers for components and products Introduces a broad range of industrial application areas including food medicine textiles cosmetics packaging automotive 3D printing energy and more Offers an industry oriented approach addressing challenges and explaining the preparation and application of biopolymers for functional products and parts Considers important factors such as resources classification sustainability and life cycle assessment LCA modeling and simulation Compares and analyzes biopolymers alongside

synthetic polymers also offering valuable insight into social economic and environmental aspects

Anaerobic Digestion Processes Nigel Horan, Abu Zahrim Yaser, Newati Wid, 2018-04-18 This book presents new application processes in the context of anaerobic digestion AD such as phosphorus recovery microbial fuel cells MFCs and seaweed digestion In addition it introduces a new technique for the modeling and optimization of AD processes Chapters 1 and 2 review AD as a technique for converting a range of organic wastes into biogas while Chapter 3 discusses the recovery of phosphorus from anaerobically digested liquor Chapters 4 and 5 focus on new techniques for modeling and optimizing AD Chapters 6 and 7 then describe the state of the art in AD effluent treatment The book's final three chapters focus on more recent developments including microbial fuel cells MFCs Chapter 8 seaweed production Chapter 9 and enzyme technologies Chapter 10

Recent Advances in Bioprocess Engineering and Bioreactor Design Swasti Dhagat, Satya Eswari Jujavarapu, N.S. Sampath Kumar, Chinmaya Mahapatra, 2024-05-13 This book provides insights into the recent developments in the field of bioprocess technology and bioreactor design Bioprocess engineering or biochemical engineering is a subcomponent of chemical engineering which encompasses designing and developing those processes and equipment that are required for the manufacturing of products from biological materials and sources such as agriculture pharmaceutical chemicals polymers food etc or for the treatment of environmental process for example waste water The main focus of this book is to highlight the advancements in the field of bioprocess technology and bioreactor design The book is divided into various chapters briefing all aspects of bioprocess engineering and focusing on the advances in bioprocess engineering The book summarizes introduction to bioprocess technology and microbiology isolation and maintenance of microbial strains and sterilization techniques for advanced level students and researchers Different models depicting kinetics of microbial growth substrate consumption and product formation are discussed The applications of enzymes have increased tremendously and therefore understanding their metabolic pathways to increase yields is also briefly discussed The calculations of mass and energy balances associated with entropy changes and free energy This book also covers the approaches for handling different types of cell cultures and current advancements in the area of bioprocess strategies for different culture types which scientists and researchers working in the different cell cultures can refer to The downstream processing of various industrially important products is also a part of this book Apart from that the process economics which ensures the feasibility and quality of any biological process is also dealt with as the last section of the book

Biofiller-Reinforced Biodegradable Polymer Composites R. Jumaidin, S. M. Sapuan, H. Ismail, 2020-10-27 Presenting a comprehensive overview of the field Biofiller Reinforced Biodegradable Polymer Composites examines biodegradable composites derived from biofiller and biodegradable polymers while providing critical information for efficient use of biocomposites developed from natural resources Discusses advanced techniques for the use of both biofiller and biodegradable polymers as the matrix for composites Highlights application of both natural fiber and natural matrix for composites in the development of environmentally friendly and

sustainable materials Introduces the basics of biocomposites the processing and characteristics of new composite materials and new combinations of composites such as soy protein and nanocellulose Elaborates on the introduction of new materials to develop biodegradable polymers This book has been written for researchers advanced students and professional engineers and materials scientists working in the area of bio based polymers natural fiber composites and biocomposites **Advances in Bioprocess Technology** Pogaku Ravindra,2015-08-13 This book provides an extensive overview of the latest research in environmentally benign integrated bioprocess technology The cutting edge bioprocess technologies highlighted in the book include bioenergy from lignocellulose materials biomass gasification ethanol butanol biodiesel from agro waste enzymatic bioprocess technology food fermentation with starter cultures and intellectual property rights for bioprocesses This book further addresses niche technologies in bioprocesses that broadens readers understanding of downstream processing for bio products and membrane technology for bioprocesses The latest developments in biomass and bioenergy technology are reviewed exhaustively including IPR rights nanotechnology for bioenergy products biomass gasification and biomass combustion This is an ideal book for scientists engineers students as well as members of industry and policy makers This book also Addresses cutting edge technologies in bioprocesses Broadens readers understanding of metabolic engineering downstream processing for bioproducts and membrane technology for bioprocesses Reviews exhaustively the latest developments in biomass and bioenergy technology including nanotechnology for bioenergy products biomass gasification biomass combustion and more **Biorefinery Production Technologies for Chemicals and Energy** Arindam Kuila,Mainak Mukhopadhyay,2020-10-20 This book covers almost all of the diverse aspects of utilizing lignocellulosic biomass for valuable biorefinery product development of chemicals alternative fuels and energy The world has shifted towards sustainable development for the generation of energy and industrially valuable chemicals Biorefinery plays an important role in the integration of conversion process with high end equipment facilities for the generation of energy fuels and chemicals The book is divided into four parts The first part Basic Principles of Biorefinery covers the concept of biorefinery its application in industrial bioprocessing the utilization of biomass for biorefinery application and its future prospects and economic performance The second part Biorefinery for Production of Chemicals covers the production of bioactive compounds gallic acid C4 C5 and C6 compounds etc from a variety of substrates The third part Biorefinery for Production of Alternative Fuel and Energy covers sustainable production of bioethanol biodiesel and biogas from different types of substrates The last part of this book discusses sequential utilization of wheat straw material balance and biorefinery approach The approaches presented in this book will help readers users from different areas like process engineering and biochemistry to plan integrated and inventive methods to trim down the expenditure of the industrial manufacture process to accomplish cost effective feasible products in biorefinery

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