## PUTTING

# BIOTECHNOLOGY

to Work

BIOPROCESS ENGINEERING

### **Putting Biotechnology To Work Bioprocess Engineering**

J.G. Burgess, R. Osinga, R.H. Wijffels

#### **Putting Biotechnology To Work Bioprocess Engineering:**

Putting Biotechnology to Work National Research Council, Division on Earth and Life Studies, Commission on Life Sciences, Committee on Bioprocess Engineering, 1992-02-01 The ability of the United States to sustain a dominant global position in biotechnology lies in maintaining its primacy in basic life science research and developing a strong resource base for bioprocess engineering and bioproduct manufacturing This book examines the status of bioprocessing and biotechnology in the United States current bioprocess technology products and opportunities and challenges of the future and what must be done to meet those challenges It gives recommendations for action to provide suitable incentives to establish a national program in bioprocess engineering research development education and technology transfer Putting Biotechnology to Work: Bioprocess Engineering National Research Council. Commission on Life Sciences. Board on Biology. Committee on Bioprocess Engineering, 1992 Bioprocess Engineering Principles Ross Carlson, Kate Morrissey, Pauline M. Doran, 2024-09-27 Bioprocess Engineering Principles Third Edition provides a solid introduction to bioprocess engineering for students with a limited engineering background The book explains process analysis from an engineering perspective using worked examples and problems that relate to biological systems Application of engineering concepts is illustrated in areas of modern biotechnology such as recombinant protein production bioremediation biofuels drug development and tissue engineering as well as microbial fermentation With new and expanded material this remains the book of choice for students seeking to move into bioprocess engineering Includes more than 350 problems that demonstrate how fundamental principles are applied in areas such as biofuels bioplastics bioremediation tissue engineering site directed mutagenesis recombinant protein production and drug development as well as for traditional microbial fermentation Provides in depth treatment of fluid flow turbulence mixing and impeller design reflecting recent advances in our understanding of mixing processes and their importance in determining the performance of cell cultures Focuses on underlying scientific and engineering principles rather than on specific biotechnology applications providing a sound basis for teaching bioprocess engineering Presents new or expanded coverage of such topics as enzyme kinetics downstream processing disposable reactors genetic engineering and the technology of fermentation Guidelines for Process Safety in Bioprocess Manufacturing Facilities CCPS (Center for Chemical Process Safety), 2011-12-28 This book helps advance process safety in a key area of interest Currently no literature exists which is solely dedicated to process safety for the bioprocessing industry. There are texts guidelines and standards on biosafety at the laboratory level and for industrial hygiene but no guidelines for large scale production facilities In fact biosafety is largely defined as a field that promotes safe laboratory practices procedures and use of containment equipment and facilities Additionally biomedical engineers biologists or other professionals without chemical engineering training or knowledge of inherently safe design are designing many of these facilities Marine Bioprocess Engineering J.G. Burgess, R. Osinga, R.H. Wijffels, 1999-11-19 This book contains full papers of both oral and poster presentations of the

international symposium Marine Bioprocess Engineering which was held in Noordwijkerhout The Netherlands 1998 The symposium focused on the bioprocessing of marine natural products Bioprocess engineering has been the key to success in the commercialization of biotechnology especially with respect to biopharmaceuticals In marine biotechnology both new and existing biotechnological techniques are developed an applied to organisms from marine sources For marine biotechnology bioprocess engineering represents the link between discovery and commercialization The diversity of marine life points to a myriad of new bioproducts waiting to be discovered and developed commercially The volume begins to bridge the gap between the isolation of products from marine organisms in the laboratory and industrial applications by focusing on the bioprocess engineering aspects Reviews and recent developments in product discovery bio energy production cultivation of marine organisms scale up and product recovery are presented This publication should ensure that the engineering aspects of marine biotechnology will receive further attention in the future Exploration of new bioproducts from the ocean should be followed up by a sustainable exploitation of these valuable resources Our Common Journey National Research Council, Policy and Global Affairs, Policy Division, Board on Sustainable Development, 1999-11-09 World human population is expected to reach upwards of 9 billion by 2050 and then level off over the next half century How can the transition to a stabilizing population also be a transition to sustainability How can science and technology help to ensure that human needs are met while the planet's environment is nurtured and restored Our Common Journey examines these momentous questions to draw strategic connections between scientific research technological development and societies efforts to achieve environmentally sustainable improvements in human well being The book argues that societies should approach sustainable development not as a destination but as an ongoing adaptive learning process Speaking to the next two generations it proposes a strategy for using scientific and technical knowledge to better inform future action in the areas of fertility reduction urban systems agricultural production energy and materials use ecosystem restoration and biodiversity conservation and suggests an approach for building a new research agenda for sustainability science Our Common Journey documents large scale historical currents of social and environmental change and reviews methods for what if analysis of possible future development pathways and their implications for sustainability The book also identifies the greatest threats to sustainability in areas such as human settlements agriculture industry and energy and explores the most promising opportunities for circumventing or mitigating these threats It goes on to discuss what indicators of change from children s birth weights to atmosphere chemistry will be most useful in monitoring a transition to sustainability **Catalytic Process** Development for Renewable Materials Pieter Imhof, Jan Cornelis van der Waal, 2013-02-28 Green clean and renewable are the hottest keywords for catalysis and industry This handbook and ready reference is the first to combine the fields of advanced experimentation and catalytic process development for biobased materials in industry It describes the entire workflow from idea approach research and process development right up to commercialization A large part of the book is

devoted to the use of advanced technologies and methodologies like high throughput experimentation as well as reactor and process design models with a wide selection of real life examples included at each stage The contributions are from authors at leading companies and institutes providing firsthand information and knowledge that is hard to find elsewhere This work is aimed at decision makers engineers and chemists in industry chemists and engineers working with on renewables chemists in the field of catalysis and chemical engineers Industrial Microbiology David B. Wilson, Hermann Sahm, Klaus-Peter Stahmann, Mattheos Koffas, 2020-03-09 Focusing on current and future uses of microbes as production organisms this practice oriented textbook complements traditional texts on microbiology and biotechnology. The editors have brought together leading researchers and professionals from the entire field of industrial microbiology and together they adopt a modern approach to a well known subject Following a brief introduction to the technology of microbial processes the twelve most important application areas for microbial technology are described from crude bulk chemicals to such highly refined biomolecules as enzymes and antibodies to the use of microbes in the leaching of minerals and for the treatment of municipal and industrial waste In line with their application oriented topic the authors focus on the translation of basic research into industrial processes and cite numerous successful examples The result is a first hand account of the state of the industry and the future potential for microbes in industrial processes Interested students of biotechnology bioengineering microbiology and related disciplines will find this a highly useful and much consulted companion while instructors can use the case studies Biotechnology for the 21st Century FCCSET Committee on Life Sciences and examples to add value to their teaching Report of the Workshop on Biology-based Technology to Enhance Human Well-being and Function in and Health.1993 Extended Space Exploration National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Commission on Physical Sciences, Mathematics, and Applications, Steering Group for the Workshop on Biology-based Technology for Enhanced Space Exploration, 1998-05-13

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