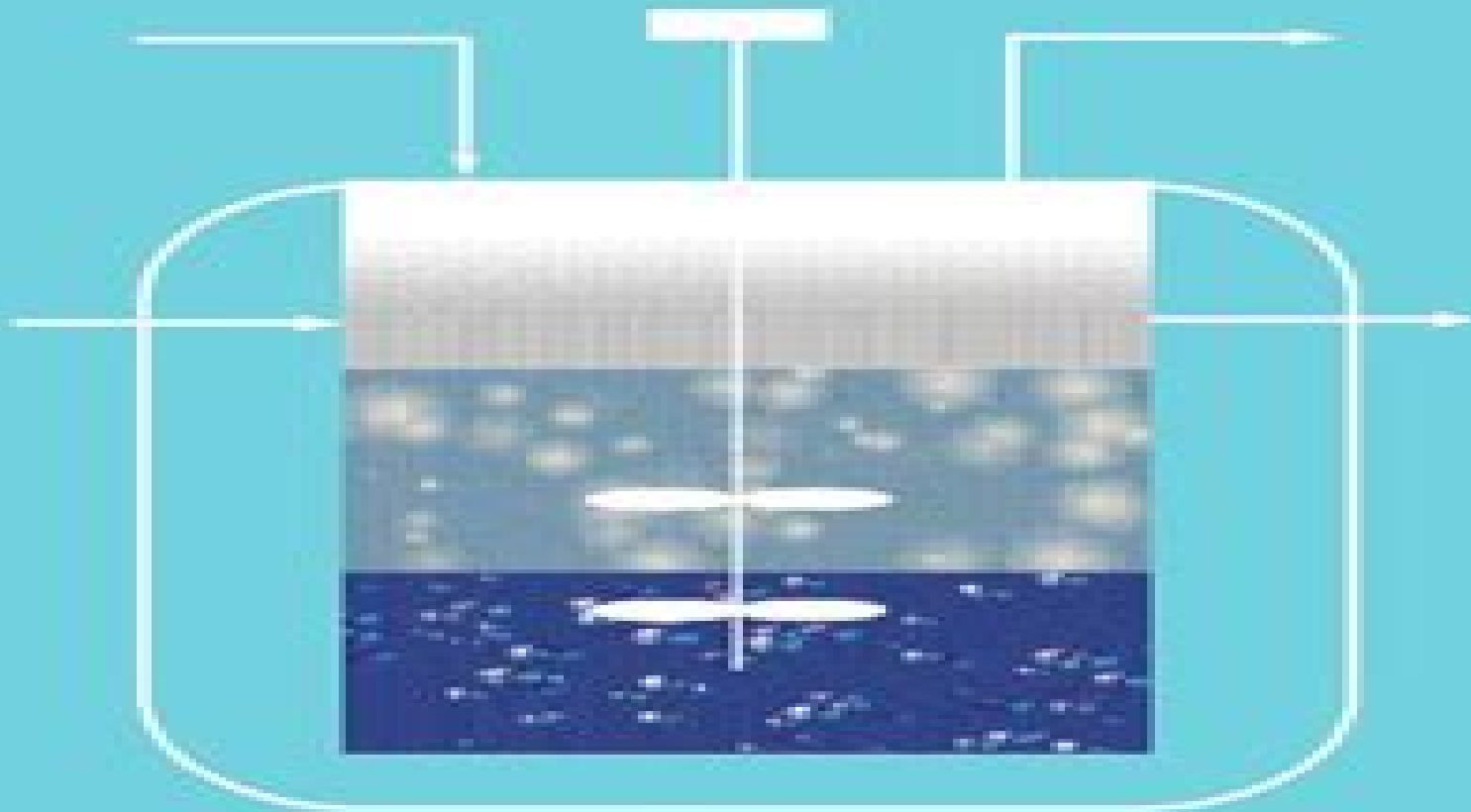


Multiphase Bioreactor Design



Edited By
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Arturo Cuomo



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Multiphase Bioreactor Design Joaquim M.S. Cabral, Manuel Mota, Johannes Tramper, 2001-09-20 Bioreaction engineering is fundamental to the optimization of biotechnological processes and the production of biochemicals by enzymes microbial plant and animal cells and higher organisms A reference text for postgraduate students and researchers in biochemical engineering and bioreactor design Multiphase Bioreactor Design describes the *Advances in Food Bioproducts and Bioprocessing Technologies* Monica Lizeth Chavez-Gonzalez, Nagamani Balagurusamy, Christobal N. Aguilar, 2019-10-16 The book explores and exploits the synergy and boundary between biotechnology bioprocessing and food engineering Divided into three parts *Advances in Food Bioproducts and Bioprocessing Technologies* includes contributions that deal with new developments in procedures bioproducts and bioprocesses that can be given quantitative expression Its 40 chapters will describe how research results can be used in engineering design include procedures to produce food additives and ingredients and discuss accounts of experimental or theoretical research and recent advances in food bioproducts and bioprocessing technologies **Advances and Applications of Partitioning Bioreactors**, 2019-05-21 *Advances and Applications of Partitioning Bioreactors* Volume 54 presents an updated reference in the field of partitioning bioreactors addressing the relevance of kinetic determination cell deactivation and transport phenomena from an engineering point of view Topics covered in this new release include Mass transport phenomena in partitioning bioreactors Modelling and design of partitioning bioreactors Population balances for partitioning bioreactors Solid liquid partitioning bioreactors for industrial wastewater treatment Multiphase bioreactors in the Food Industry Multiphase bioreactors in the pharmaceutical industry Biological treatment of gas pollutants in partitioning bioreactors Hydrocarbon biodegradation using airlift bioreactors and more Contains contributions from experts in their respective areas Updated state of the art work on partitioning bioreactors **Bioreactors for Microbial Biomass and Energy Conversion** Qiang Liao, Jo-shu Chang, Christiane Herrmann, Ao Xia, 2018-04-20 This book discusses recent trends and developments in the microbial conversion process which serves as an important route for biofuel production with particular attention to bioreactors It combines microbial conversion with multiphase flow and mass transfer providing an alternative perspective for the understanding of microbial biomass and energy production process as well as enhancement strategy This book is relevant to students and researchers who work in the fields of renewable energy engineering and biotechnology Policymakers economists and industry engineers also benefit from this book as it can be used as a resource for the implementation of renewable energy technologies **Manual of Industrial Microbiology and Biotechnology** Richard H. Baltz, Arnold L. Demain, Julian E. Davies, 2010-03-25 A rich array of methods and discussions of productive microbial processes Reviews of the newest techniques approaches and options in the use of microorganisms and other cell culture systems for the manufacture of pharmaceuticals industrial enzymes and proteins foods and beverages fuels and fine chemicals and other products Focuses on the latest advances and findings on the

current state of the art and science and features a new section on the microbial production of biofuels and fine chemicals as well as a stronger emphasis on mammalian cell culture methods Covers new methods that enhance the capacity of microbes used for a wide range of purposes from winemaking to pharmaceuticals to bioremediation at volumes from micro to industrial scale

Basic Equations of Mass Transport Through a Membrane Layer Endre Nagy, 2018-11-05 Basic Equations of Mass Transport Through a Membrane Layer Second Edition has been fully updated to deliver the latest research in the field This volume covers the essentials of compound separation product removal concentration and production in the chemical biochemical pharmaceutical and food industries It outlines the various membrane processes and their applications offering a detailed mathematical description of mass transport and defining basic mass transport and concentration distribution expressions Additionally this book discusses the process parameters and application of the expressions developed for a variety of industrial applications Comprehensive explanations of convective diffusive mass transport are provided both with and without polarization layers that help predict and process performance and facilitate improvements to operation conditions and efficiency Basic Equations of Mass Transport Through a Membrane Layer is an ideal resource for engineers and technologists in the chemical biochemical and pharmaceutical industries as well as researchers professors and students in these areas at both an undergraduate and graduate level Cites and analyzes mass transport equations developed for different membrane processes Examines the effect of biochemical chemical reactions in the presence of convective and diffusive flows in plane and cylindrical spaces Defines the mass transfer rate for first and zero order reactions and analytical approaches are given for other order reactions in closed mathematical forms Analyzes the simultaneous convective and diffusive transports with same or different directions

An Introduction to Bioreactor Hydrodynamics and Gas-Liquid Mass Transfer Enes Kadic, Theodore J. Heindel, 2014-03-14 Reviews and compares the major types of bioreactors defines their pros and cons and identifies research needs and figures of merit that have yet to be addressed Describes common modes of operation in bioreactors Covers the three common bioreactor types including stirred tank bioreactors bubble column bioreactors and airlift bioreactors Details less common bioreactors types including fixed bed bioreactors and novel bioreactor designs Discusses advantages and disadvantages of each bioreactor and provides a procedure for optimal bioreactor selection based on current process needs Reviews the problems of bioreactor selection globally while considering all bioreactor options rather than concentrating on one specific bioreactor type

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CJChE ,2003-06 **Biotransformations** ,1987 *Advances in Environmental Technologies III* Ji Zhao,Aijie Wang,Xin Yong Li,Xiao Yi Wang,2014-06-18 Selected peer reviewed papers from the 2014 International Conference on Energy and Environmental Protection ICEEP 2014 April 26 28 2014 Xi an China **South African Journal of Science** ,2003 ECB6

Lilia Albergghina,Laura Frontali,P. Sensi,1994 Presents emerging areas of biotechnological research and applications as well as various aspects of two interwoven problems the raising of the competitive edge of industrial production and the protection of the environment and improvement of quality of life **Bioprocessing Technology** ,1987 *Ionic Liquids* Robin D. Rogers,2002 Contains the key papers presented at the American Chemical Society ACS national meeting symposium Green or Greener Industrial Applications of Ionic Liquids held in San Diego California April 1 5 2001 Page xiii **Design of Multiphase Reactors** Vishwas G. Pangarkar,2014-11-19 Details simple design methods for multiphase reactors in the chemical process industries Includes basic aspects of transport in multiphase reactors and the importance of relatively reliable and simple procedures for predicting mass transfer parameters Details of design and scale up aspects of several important types of multiphase reactors Examples illustrated through design methodologies presenting different reactors for reactions that are industrially important Includes simple spreadsheet packages rather than complex algorithms programs or computational aid *Chemical Engineering Progress* ,2007 *Recovering Energy from Waste* Velma I. Grover,Vaneeta Kaur Grover,William Hogland,2002 The driving forces of energy degradation according to the UN Environmental Program are the poverty of the majority and excessive consumption by the minority These 22 contributed chapters blend analyses of renewable energy technologies e g biomass bioreactors electrokinetic soil processing cases studies of successes and failures from developing and developed countries and considerations of climate human health and socioeconomic impacts Grover a natural resources consultant in Hamilton Ontario introduces the issues that fellow Canadian Marshall McLuhan alluded to in his observation that The new clothing of the planet is garbage Other introductory chapters present waste to energy and

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