

Second Edition

Industrial Process Scale-up

*A Practical Innovation Guide from
Idea to Commercial Implementation*



Jan Harmsen

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Industrial Process Scale-up Jan Harmsen, 2013-04-25 This book will help industrial process innovators in research development and commercial start up to assess the risks of commercial scale implementation and provide them with practical guidelines and methods to reduce the risks to acceptable levels The book can also be used in co operation with industrial R D people and academic researchers to shape open innovation programs and in education as a reference book for process innovation courses Offers easily accessible step by step and concise guidelines for industrial process scale up Explains each stage of the innovation funnel research development demonstration commercial implementation for any process type and branch Based on industrial experiences and practices which reduces the risks of commercial scale implementation of new processes to acceptable levels and reduces cost and time of process innovation Very clear attractive layout using text boxes that contain clarifying notes and additional information on specific topics which makes it a quick reference of main subjects and additional information

Scale-Up Processes Jamal Chaouki, Rahmat Sotudeh-Gharebagh, 2021-09-20 Common scale up methods are conventional where the blind piloting is essential This imposes huge investment and leads to failures mostly in solid processing However the limitations of resources current shortcomings short time to market demand are forced companies to minimize piloting With these situations in mind current digitalization outlook and computational facilities we proposed and developed a novel iterative scale up method with case studies which highly expedites the process innovation through the following key sequences

Sustainable Technologies for Value Addition and Management of Plastic Waste Abha Kumari, Ashok Pandey, Rohidas Bhoi, Anh Tuan Hoang, 2026-04-24 This book provides innovative and sustainable technologies for converting plastic waste into valuable resources The book is structured into three sections each focusing on a different aspect of plastic waste management and conversion technologies The first section delves into sustainable technologies for producing various types of fuels from plastic waste including liquid fuel hydrogen and aviation fuel The second section examines technologies for converting plastic waste into value added chemicals and materials encompassing new materials chemicals and new plastics The third section focuses on the management and recycling of plastic waste covering treatment methods for general electronic micro and nano plastic waste and the application of artificial intelligence in waste management It also includes a life cycle assessment of plastic waste management processes Further the book examines the broader concepts of circular economy and sustainability in the context of plastic waste management The chapters discuss the principles and practices of a circular economy aiming for a sustainable and waste free future They also address the role of policies and the implementation of green supply chains in promoting sustainable plastic waste management emphasizing the importance of integrating policy and technological advancements This book is a valuable resource for professionals researchers and students of environmental sciences and biotechnology

Key Features Emphasizes the sustainable technologies for converting plastic waste into various fuels including

liquid fuel hydrogen and aviation fuel Highlights the conversion of plastic waste into value added chemicals and new materials Examines advanced management and recycling methods for different types of plastic waste including general electronic micro and nano plastic waste Provides a comprehensive life cycle assessment of plastic waste management processes and evaluates their environmental impact and sustainability Discusses the principles and practices of a circular economy for a sustainable and waste free future through innovative plastic waste management strategies Addresses the role of policies and green supply chains in promoting sustainable plastic waste management

Mixing Process Technology
Kishore Kar, Richard Cope, Juergen Lueske, 2025-07-31 Industrial mixing processes often present multiple optimization challenges to producing desirable products The resulting processes must be cost effective first time right and frequently the designated most effective technology for the global manufacture of specific products *Mixing Process Technology A Guide to Industrial Applications* shares the authors extensive knowledge of mixing research and industrial practice It features 20 industrial mixing chapters that are purposely light on mixing fundamentals while heavy on practical mixing applications for practical process design and manufacturing This text serves as an applied guide to industrial mixing for practitioners who want brief explanations of mixing concepts with real life examples and software to help perform associated design calculations This book also Offers side by side discussion of mixing systems including impellers and rotor stators as offered by several major manufacturers Describes the authors innovative mixer designs to meet manufacturing needs Includes a chapter by a mixer manufacturing representative describing design sizing and expensing of industrial mixers Presents a chapter by a mixing equipment manufacturing leader that explains mechanical design considerations in clear terms Contains a chapter on emerging mixing technologies including mixing via resonant acoustics and controlled cavitation Discusses computational fluid dynamics in mixing with multiple practical examples by a contributing author from a leading pharmaceutical company Includes Excel based mixing worksheets throughout book examples and Excel based input output mixit io interface hosted on the publisher s website This book is aimed at chemical and process engineers as well as students seeking to understand industrial mixing technology

Technologies in Cell Culture, 2024-06-26 *Technologies in Cell Culture A Journey From Basics to Advanced Applications* is a comprehensive book that offers a broad overview of the subject encompassing fundamental concepts modern techniques and their diverse applications across various fields Comprising eleven chapters authored by leading international experts in their respective fields this book adeptly navigates the complexities of cell culture It provides valuable insights into bioprocessing cancer biology regenerative medicine and more The book explores innovative strategies for restoring eyesight in individuals with age related macular degeneration through retinal pigment epithelium monolayers derived from autologous adipose tissue stem cells We discover novel approaches for utilizing in vitro techniques to evaluate new medications targeting crucial molecular pathways A deeper comprehension of the tumor microenvironment can be achieved by conducting coculture studies on cancer cells and adipocytes The readers

will gain insight into organoid intelligence a culmination of advancements in stem cell technologies bioengineering and artificial intelligence For anyone intrigued by unraveling the mysteries of cellular life Technologies in Cell Culture A Journey From Basics to Advanced Applications is an indispensable resource catering to both novice scientists and seasoned researchers seeking to expand their knowledge Join us on this journey as we explore the myriad ways in which cell culture technology can impact biomedicine and beyond *Bioreactor Technology in Food Processing* Rosane F. Schwan,V. K. Joshi,Disney R. Dias,2024-11-29 Bioreactor Technology in Food Processing brings peculiarities specificities and updates on bioreactors and bioprocesses related to food and beverage production The 26 chapters of this book are the result of the participation of more than 70 professionals including professors researchers and experts from the industrial sector from different countries around the world The chapters cover such topics as history classification scale up analytical tools and mathematical and kinetic models for the operation of bioreactors in the food industry In addition chapters detail the characteristics of bioreactors for the production of food bread cheese and coffee fermentation and fermented beverages beer wine distilled beverages and organic compounds such as enzymes acids aromas and pigments biocolorants among others Key Features Describes the basic and applied aspects of bioreactor in food processing Gathers information on bioreactors that is scattered in different journals and monographs as reviews and research articles Covers various types of bioreactors including stirred tank airlift photo bioreactor and disposable bioreactors Gives a broad overview of what exactly is involved in designing a bioreactor and optimizing its performance and finally their applications in the food processing industry The broad interdisciplinary approach of this book will certainly make your reading very interesting and we hope that it can contribute to knowledge and instigate creative thinking to overcome the challenges that food bioprocessing brings us

Regulatory Affairs in the Pharmaceutical Industry Javed Ali,Sanjula Baboota,2021-11-14 Regulatory Affairs in the Pharmaceutical Industry is a comprehensive reference that compiles all the information available pertaining to regulatory procedures currently followed by the pharmaceutical industry Designed to impart advanced knowledge and skills required to learn the various concepts of regulatory affairs the content covers new drugs generic drugs and their development regulatory filings in different countries different phases of clinical trials and the submission of regulatory documents like IND Investigational New Drug NDA New Drug Application and ANDA Abbreviated New Drug Application Chapters cover documentation in the pharmaceutical industry generic drug development code of Federal Regulation CFR the ANDA regulatory approval process the process and documentation for US registration of foreign drugs the regulation of combination products and medical devices the CTD and ECTD formats and much more Updated reference on drug approval processes in key global markets Provides comprehensive coverage of concepts and regulatory affairs Presents a concise compilation of the regulatory requirements of different countries Introduces the fundamentals of manufacturing controls and their regulatory importance *Enzymatic Production of Oligosaccharides* Carlos Vera,Cecilia Guerrero,Andrés

Illanes,2025-10-01 Enzymatic Production of Oligosaccharides From Basic Research to Industrial Production a volume in the Foundations and Frontiers of Enzymology series covers the enzymes used for the extraction synthesis or modification of oligosaccharides the biochemical properties of those enzymes and potential technological applications The book is divided into three parts the first of which shares the fundamentals on the enzymatic synthesis of oligosaccharides The book then explores the enzymatic production of oligosaccharides considering a range of different oligosaccharides and production processes Final sections cover the technological properties of oligosaccharides and potential applications across the chemical biochemical biotechnology and food industries This is a useful reference for researchers working with oligosaccharides across biochemistry enzymology biotechnology food chemistry and related fields Focuses on a range of different oligosaccharides including chito oligosaccharides xylo oligosaccharides galacto oligosaccharides and lactulose derived oligosaccharides Includes various production processes of oligosaccharides such as enzymatic production and microbial production Analyzes enzyme reactors used for oligosaccharides synthesis Discusses the downstream processing of oligosaccharides for product separation and purification Considers food cosmetic and pharmaceutical applications of oligosaccharides

New Scientist ,2001 Vertical File Index ,2005 *Road Map to Understanding Innovative Technology Options for Brownfields Investigation and Cleanup* ,2001 **C/C++ Users Journal** ,2004 Software Development ,2004 **Euro Abstracts** ,2002 *Dr. Dobb's Journal* ,2004 **MSDN Magazine** ,2004 **American Laboratory** ,2006 Campus Technology ,2007-10 *Consulting-specifying Engineer* ,1999 **Windows Developer's Journal** ,1998-07

Whispering the Secrets of Language: An Psychological Journey through **Industrial Process Scale Up Download Pdf**

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