SCALEUP OF CHEMICAL PROCESSES

Conversion from Laboratory Scale Tests to Successful Commercial Size Design

ROBERT L. KABEL

Scaleup Of Chemical Processes Conversion From
Laboratory Scale Tests To Successful Commercial Size
Design

Lawrence E. Tannas, William E. Glenn, Joseph William Doane

Scaleup Of Chemical Processes Conversion From Laboratory Scale Tests To Successful Commercial Size Design:

Scaleup of Chemical Processes Attilio Bisio, Robert L. Kabel, 1985 The focus of this book is on the technical factors that are critical to the design and startup of a commercial manufacturing facility
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 cooperation with industrial RD 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

Pharmaceutical Process Scale-Up Michael Levin, 2001-12-12 Focusing on scientific and practical aspects of process scale up this resource details the theory and practice of transferring pharmaceutical processes from laboratory scale to the pilot plant and production scale It covers parenteral and nonparenterel liquids and semi solids products derived from biotechnology dry blending and powder handling Modeling of Chemical Kinetics and Reactor Design A. Kayode Coker, 2001-08-14 Selecting the best type of reactor for any particular chemical reaction taking into consideration safety hazard analysis scale up and many other factors is essential to any industrial problem An understanding of chemical reaction kinetics and the design of chemical reactors is key to the success of the of the chemist and the chemical engineer in such an endeavor This valuable reference volume conveys a basic understanding of chemical reactor design methodologies incorporating control hazard analysis and other topics not covered in similar texts In addition to covering fluid mixing the treatment of wastewater and chemical reactor modeling the author includes sections on safety in chemical reaction and scale up two topics that are often neglected or overlooked As a real world introduction to the modeling of chemical kinetics and reactor design the author includes a case study on ammonia synthesis that is integrated throughout the text The text also features an accompanying CD which contains computer programs developed to solve modeling problems using numerical methods Students chemists technologists and chemical engineers will all benefit from this comprehensive volume Shows readers how to select the best reactor design hazard analysis and safety in design methodology Features computer programs developed to solve modeling problems using numerical methods Chemical Engineering Design Gavin Towler, Ray Sinnott, 2021-07-14 Chemical Engineering Design Principles Practice and Economics of Plant and Process Design is one of the best known and most widely adopted texts available for students of chemical engineering The text deals with the

application of chemical engineering principles to the design of chemical processes and equipment The third edition retains its hallmark features of scope clarity and practical emphasis while providing the latest US codes and standards including API ASME and ISA design codes and ANSI standards as well as coverage of the latest aspects of process design operations safety loss prevention equipment selection and more The text is designed for chemical and biochemical engineering students senior undergraduate year plus appropriate for capstone design courses where taken and professionals in industry chemical process biochemical pharmaceutical petrochemical sectors Provides students with a text of unmatched relevance for chemical process and plant design courses and for the final year capstone design course Written by practicing design engineers with extensive undergraduate teaching experience Contains more than 100 typical industrial design projects drawn from a diverse range of process industries NEW TO THIS EDITION Includes new content covering food pharmaceutical and biological processes and commonly used unit operations Provides updates on plant and equipment costs regulations and technical standards Includes limited online access for students to Cost Engineering's Cleopatra Enterprise cost estimating software

Chemical Engineering Design Ray Sinnott, Gavin Towler, 2009-05-15 Chemical Engineering Design is one of the best known and most widely adopted texts available for students of chemical engineering. It completely covers the standard chemical engineering final year design course and is widely used as a graduate text. The hallmarks of this renowned book have always been its scope practical emphasis and closeness to the curriculum. That it is written by practicing chemical engineers makes it particularly popular with students who appreciate its relevance and clarity Building on this position of strength the fifth edition covers the latest aspects of process design operations safety loss prevention and equipment selection and much more Comprehensive in coverage exhaustive in detail and supported by extensive problem sets at the end of each chapter this is a book that students will want to keep to hand as they enter their professional life. The leading chemical engineering design text with over 25 years of established market leadership to back it up an essential resource for the compulsory design project all chemical engineering students take in their final year A complete and trusted teaching and learning package the book offers a broader scope better curriculum coverage more extensive ancillaries and a more student friendly approach at a better price than any of its competitors Endorsed by the Institution of Chemical Engineers guaranteeing wide exposure to the academic and professional market in chemical and process engineering

Crystallization Process Systems Alan G. Jones,2002-04-04 Crystallization Process Systems gives a clear concise balanced and up to date presentation of crystallization and solid liquid separation of the crystalline product The information is presented in a coherent concise and logical sequence based on the fundamentals of particulate crystallization processes as systems By emphasising the analysis design and operation of particulate crystallization processes as systems the reader will be able to make a better judgement about the best cheapest and most effective production method to use Presents a coherent concise and logical sequence based on the fundamentals of particulate crystallization processes as systemsEmphasis on the

design and optimization of the crystallization processing system **Transport Processes in Chemically Reacting Flow Systems** Daniel E. Rosner, 2013-10-22 Transport Processes in Chemically Reacting Flow Systems discusses the role in chemically reacting flow systems of transport processes particularly the transport of momentum energy and chemical species mass in fluids gases and liquids The principles developed and often illustrated here for combustion systems are important not only for the rational design and development of engineering equipment e g chemical reactors heat exchangers mass exchangers but also for scientific research involving coupled transport processes and chemical reaction in flow systems The book begins with an introduction to transport processes in chemically reactive systems Separate chapters cover momentum energy and mass transport These chapters develop state and exploit useful quantitative analogies between these transport phenomena including interrelationships that remain valid even in the presence of homogeneous or heterogeneous chemical reactions A separate chapter covers the use of transport theory in the systematization and generalization of experimental data on chemically reacting systems. The principles and methods discussed are then applied to the preliminary design of a heat exchanger for extracting power from the products of combustion in a stationary fossil fuel fired power plant The book has been written in such a way as to be accessible to students and practicing scientists whose background has until now been confined to physical chemistry classical physics and or applied mathematics **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 Comprehensive Organic Synthesis, 2014-02-14 The second edition of Comprehensive Organic Synthesis winner of the 2015 PROSE Award for Multivolume Reference Science from the Association of American Publishers builds upon the highly respected first edition in drawing together the new common themes that underlie the many disparate areas of organic chemistry. These themes support effective and efficient synthetic strategies thus providing a comprehensive overview of this important discipline Fully revised and updated this new set forms an essential reference work for all those seeking information on the solution of synthetic problems whether they are experienced practitioners or chemists whose major interests lie outside organic synthesis In addition synthetic chemists requiring the essential facts in new areas as well as students completely new to the field will find Comprehensive Organic Synthesis Second Edition Nine Volume Set an invaluable source providing an authoritative overview of core concepts Winner of the 2015 PROSE Award for Multivolume Reference Science from the Association of American Publishers Contains more than 170 articles across nine volumes including detailed analysis of core topics such as bonds oxidation and reduction Includes more than 10 000 schemes and images Fully revised and updated

important growth areas including combinatorial chemistry new technological industrial and green chemistry developments are covered extensively Flat-Panel Display Technologies Lawrence E. Tannas, William E. Glenn, Joseph William Doane, 1995-12-31 Large scale manufacturing of liquid crystal flat panel displays LCDs by Japan brought the world's attention to the existence of an enormous market potential exists when there are alternatives to the cathode ray tube CRT The Japanese have recognized that new display technologies are critical to making their products highly competitive in the world market The CRT is losing market share to the solid state flat panel display Japan currently holds 90% of the market and this book outlines opportunities in the former Soviet Union where companies with the necessary technology are seeking partners investment and manufacturing opportunities Entire cities that were once not even on the map due to their military mission are now appearing filled with state of the art electronic technology. The book is developed from the reports issued by investigators based on their field visits to 33 sites in Japan and 26 sites in Russia Ukraine and Belarus Engineering Principles Jens Nielsen, John Villadsen, Gunnar Lidén, 2012-12-06 This is the second edition of the text Bioreaction Engineering Principles by Jens Nielsen and John Villadsen originally published in 1994 by Plenum Press now part of Kluwer Time runs fast in Biotechnology and when Kluwer Plenum stopped reprinting the first edition and asked us to make a second revised edition we happily accepted A text on bioreactions written in the early 1990 s will not reflect the enormous development of experimental as well as theoretical aspects of cellular reactions during the past decade In the preface to the first edition we admitted to be newcomers in the field One of us JV has had 10 more years of job training in biotechnology and the younger author IN has now received international recognition for his work with the hottest topics of modem biotechnology Furthermore we are happy to have induced Gunnar Liden professor of chemical reaction engineering at our sister university in Lund Sweden to join us as co author of the second edition His contribution especially on the chemical engineering aspects of real bioreactors has been of the greatest value Chapter 8 of the present edition is largely unchanged from the first edition We wish to thank professor Martin Hjortso from LSU for his substantial help with this chapter

Chemical Reaction Engineering L.K. Doraiswamy, Deniz Uner, 2013-07-15 Filling a longstanding gap for graduate courses in the field Chemical Reaction Engineering Beyond the Fundamentals covers basic concepts as well as complexities of chemical reaction engineering including novel techniques for process intensification The book is divided into three parts Fundamentals Revisited Building on Fundamentals and Beyond the Fundamentals Part I Fundamentals Revisited reviews the salient features of an undergraduate course introducing concepts essential to reactor design such as mixing unsteady state operations multiple steady states and complex reactions Part II Building on Fundamentals is devoted to skill building particularly in the area of catalysis and catalytic reactions It covers chemical thermodynamics emphasizing the thermodynamics of adsorption and complex reactions the fundamentals of chemical kinetics with special emphasis on microkinetic analysis and heat and mass transfer effects in catalysis including transport between phases transfer across

interfaces and effects of external heat and mass transfer It also contains a chapter that provides readers with tools for making accurate kinetic measurements and analyzing the data obtained Part III Beyond the Fundamentals presents material not commonly covered in textbooks addressing aspects of reactors involving more than one phase It discusses solid catalyzed fluid phase reactions in fixed bed and fluidized bed reactors gas solid noncatalytic reactions reactions involving at least one liquid phase gas liquid and liquid liquid and multiphase reactions This section also describes membrane assisted reactor engineering combo reactors homogeneous catalysis and phase transfer catalysis. The final chapter provides a perspective on future trends in reaction engineering Dimensional Analysis Jonathan Worstell, 2014-03-05 Practical Guides in Chemical Engineering are a cluster of short texts that each provides a focused introductory view on a single subject The full library spans the main topics in the chemical process industries that engineering professionals require a basic understanding of They are pocket publications that the professional engineer can easily carry with them or access electronically while working Each text is highly practical and applied and presents first principles for engineers who need to get up to speed in a new area fast The focused facts provided in each guide will help you converse with experts in the field attempt your own initial troubleshooting check calculations and solve rudimentary problems Dimensional Analysis provides the foundation for similitude and for up and downscaling Aeronautical Civil and Mechanical Engineering have used Dimensional Analysis profitably for over one hundred years Chemical Engineering has made limited use of it due to the complexity of chemical processes However Chemical Engineering can now employ Dimensional Analysis widely due to the free for use matrix calculators now available on the Internet This book shows how to apply matrices to Dimensional Analysis Practical short concise information on the basics will help you get an answer or teach yourself a new topic quickly Supported by industry examples to help you solve a real world problem Single subject volumes provide key facts for professionals Green Chemistry and Engineering Concepción Jiménez-González, David J. C. Constable, 2011-04-12 The past present and future of green chemistry and green engineering From college campuses to corporations the past decade witnessed a rapidly growing interest in understanding sustainable chemistry and engineering Green Chemistry and Engineering A Practical Design Approach integrates the two disciplines into a single study tool for students and a practical guide for working chemists and engineers In Green Chemistry and Engineering the authors each highly experienced in implementing green chemistry and engineering programs in industrial settings provide the bottom line thinking required to not only bring sustainable chemistry and engineering closer together but to also move business towards more sustainable practices and products Detailing an integrated systems oriented approach that bridges both chemical syntheses and manufacturing processes this invaluable reference covers Green chemistry and green engineering in the movement towards sustainability Designing greener safer chemical synthesis Designing greener safer chemical manufacturing processes Looking beyond current processes to a lifecycle thinking perspective Trends in chemical processing that may lead to more sustainable practices. The authors also

provide real world examples and exercises to promote further thought and discussion The EPA defines green chemistry as the design of chemical products and processes that reduce or eliminate the use or generation of hazardous substances Green engineering is described as the design commercialization and use of products and processes that are feasible and economical while minimizing both the generation of pollution at the source and the risk to human health and the environment While there is no shortage of books on either discipline Green Chemistry and Engineering is the first to truly integrate the two

Fluidization, Solids Handling, and Processing Wen-Ching Yang, 1998-12-31 This volume Fluidization Solids Handling and Processing is the first of a series of volumes on Particle Technology Particles are important products of chemical process industries spanning the basic and specialty chemicals agricultural products pharmaceuticals paints dyestuffs and pigments cement ceramics and electronic materials Solids handling and processing technologies are thus essential to the operation and competitiveness of these industries Fluidization technology is employed not only in chemical production it also is applied in coal gasification and combustion for power generation mineral processing food processing soil washing and other related waste treatment environmental remediation and resource recovery processes The FCC Fluid Catalytic Cracking technology commonly employed in the modern petroleum refineries is also based on fluidization principles Green and Sustainable Chemistry and Engineering Concepción Jiménez-González, David J. C. Constable, 2025-07-02 The first textbook to fully integrate Green and Sustainable Chemistry and Engineering now in its second edition Green and Sustainable Chemistry and Engineering addresses key concepts and processes from an industrial and manufacturing perspective Using an integrated systems oriented approach this invaluable single volume resource bridges the divide between chemistry process design and engineering as well as environment health safety and life cycle considerations. This revised new edition discusses trends in chemical processing that can lead to more sustainable practices explores new methods in the design of greener chemical synthesis addresses sustainability challenges and implementation issues and more Up to date examples and new practical exercises based on the broad experience of the authors in applied and fundamental research corporate consulting and education are incorporated throughout the text Designed to advance green chemistry and green engineering as disciplines in the broader context of sustainability Green and Sustainable Chemistry and Engineering Illustrates the role of green and sustainable chemistry and engineering in the adoption of sustainable practices Describes the components of chemistry supporting the design of sustainable chemical reactions and reaction pathways Presents an approach to materials selection promoting the sustainability of chemical synthesis without diminishing efficiency Highlights key concepts that support the design of more sustainable chemical processes Provides background and context for placing a particular chemical process in the broader chemical enterprise Includes access to a companion website with a solutions manual and supplementary resources Green and Sustainable Chemistry and Engineering A Practical Design Approach Second Edition remains an ideal textbook for graduate and senior level courses in Chemistry and Chemical Engineering and an invaluable reference for

chemists and engineers in manufacturing and R D especially those working in fine chemicals and pharmaceuticals **Organic Synthesis Engineering** L. K. Doraiswamy, 2001-02-15 This book will formally launch organic synthesis engineering as a distinctive field in the armory of the reaction engineer Its main theme revolves around two developments catalysis and the role of process intensification in enhancing overall productivity Each of these two subjects are becoming increasingly useful in organic synthesis engineering especially in the production of medium and small volume chemicals and enhancing reaction rates by extending laboratory techniques such as ultrasound phase transfer catalysts membrane reactor and microwaves to industrial scale production This volume describes the applications of catalysis in organic synthesis and outlines different techniques of reaction rate and or selectivity enhancement against a background of reaction engineering principles for both homogeneous and heterogeneous systems Chemical Reactions and Processes Under Flow Conditions Santíago V. Luis, Eduardo García-Verdugo, 2010 Pharmaceutical and fine chemical products are typically synthesised batchwise which is an anomaly since batch processes have a series of practical and economical disadvantages On the contrary flow continuous processes present a series of advantages leading to new ways to synthesise chemical products Flow processes enable control reaction parameters more precisely temperature residence time amount of reagents and solvent etc leading to better reproducibility safer and more reliable processes can be performed more advantageously using immobilized reagents or catalysts improve the selectivity and productivity of the process and possibly even the stability of the catalyst offer opportunities for heat exchange and energy conservation as well as an easy separation and recycling of the reactants and products by adequate process design achieve multistep syntheses by assembling a line of reactors with minimum or no purification in between two reaction steps can be assured by facile automation scale up can be easily conducted by number up With all the new research activity in manufacturing chemical products this comprehensive book is very timely as it summarises the latest trends in organic synthesis It gives an insight into flow continuous processes outlining the basic concepts and explaining the terminology of and systems approach to process design dealing with both homogeneous and heterogeneous catalysis and mini or micro reactors The book contains case studies extensive bibliographies and reference lists in each chapter to enable the reader to grasp the contents and to go on to more detailed texts on specific subjects if desired The book is written by both organic chemists and engineers giving a multidisciplinary vision of the new tools and methodologies in this field It is essential reading for organic chemists in industry or academia working alongside chemical engineers or who want to undertake chemical engineering projects It will also be of interest for chemical engineers to see how basic engineering concepts are applied in modern organic chemistry Renewable Fuels Jacqueline O'Connor, Bobby Noble, Tim Lieuwen, 2022-12-15 Focusing on a critical aspect of the future clean energy system renewable fuels this book will be your complete guide on how these fuels are manufactured the considerations associated with utilising them and their real world applications Written by experts across the field the book presents many professional perspectives providing an in

depth understanding of this crucial topic Clearly explained and organised into four key parts this book explores the technical aspects written in an accessible way First it discusses the dominant energy conversion approaches and the impact that fuel properties have on system operability Part II outlines the chemical carrier options available for these conversion devices including gaseous liquid and solid fuels In the third part it describes the physics and chemistry of combustion revealing the issues associated with utilizing these fuels Finally Part IV presents real world case studies demonstrating the successful pathways towards a net zero carbon future

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