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SCALE-UP METHODOLOGY FOR CHEMICAL PROCESSES

EDITIONS TECHNIP

Scaleup Methodology For Chemical Processes

Kamelia Boodhoo, Adam Harvey



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Scale-up Methodology for Chemical Processes Jean-Paul Euzen, Pierre Trambouze, Jean-Pierre Wauquier, 1993 The authors present a design framework a broad review of the available means of investigation and several examples illustrating their methodology of industrial process scale up The authors are executives at the Center for Industrial Research and Development of the Institut Français du Pétrole at Solaize **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 nonparenteral liquids and semi solids products derived from biotechnology dry blending and powder handling *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 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 in Chemical Engineering* Marko Zlokarnik, 2006-08-21 Covering the important task of the scale up of processes from the laboratory to the production scale this easily comprehensible and transparent book is divided into two sections The first part details the theoretical principles introducing the subject for readers without a profound prior knowledge of mathematics It discusses the fundamentals of dimensional analysis the treatment of temperature dependent and rheological material values and scale up where model

systems or not available or only partly similar All this is illustrated by 20 real world examples while 25 exercises plus solutions new to this edition practice and monitor learning The second part presents the individual basic operations and covers the fields of mechanical thermal and chemical process engineering with respect to dimensional analysis and scale up The rules for scale up are given and discussed for each operation Other additions to this second edition are dimensional analysis of pelleting processes and a historical overview of dimensional analysis and modeling while all the chapters have been updated to take the latest literature into account Written by a specialist with more than 40 years of experience in the industry this book is specifically aimed at students as well as practicing engineers chemists and process engineers already working in the field

Scaleup of Chemical Processes Attilio Bisio, Robert L. Kabel, 1985-07-25 The focus of this book is on the technical factors that are critical to the design and startup of a commercial manufacturing facility

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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

Disposal Strategy of Proton Irradiated Mercury from High Power Spallation Sources Suresh Chiriki, 2010

Process Technology André B. de Haan, 2015-04-24 Process Technology provides a general overview about chemical and biochemical process technology It focuses on the structure and development of production processes main technological operations and the important aspects of process economics The theoretical foundations in each chapter are supplemented by case studies and examples in a clear and instructive manner to illustrate the practical aspects The author highlights operating principles reasons for application and available industrial equipment of technological operations Aim is to facilitate those without a process technology background in multi disciplinary cooperation with bio chemical engineers by providing an overview of this exciting field The textbook is organized into seven distinct parts Structure of the chemical industry and bio chemical processes Bio Chemical reaction engineering Molecular separations distillation extraction absorption adsorption Mechanical separations filtration sedimentation membranes Particle and final product manufacturing Development scale up design and safety of processes Major industrial process descriptions

Engineering Catalysis Dmitry Murzin, 2013-06-26 With well over 90% of all processes in the industrial chemical production being of catalytic nature catalysis is a mature though ever interesting topic The idea of this book is to tackle various aspects of heterogeneous

catalysis from the engineering point of view and go all the way from engineering of catalysis catalyst preparation characterization reaction kinetics mass transfer to catalytic reactors and the implementation of catalysts in chemical technology Aimed for graduate students it is also a useful resource for professionals coming from the more academic side

Engineering Catalysis Dmitry Yu. Murzin, 2020-02-10 The book illuminates various aspects of heterogeneous catalysis engineering from catalysis design catalyst preparation and characterization reaction kinetics mass transfer and catalytic reactors to the implementation of catalysts in chemical technology Aimed at graduate students it is also a useful resource for professionals working in research and development

Manual of Process Economic Evaluation Alain Chauvel, Gilles Fournier, Claude Raimbault, 2003 This volume will enable the reader to successfully undertake pre project evaluations especially in the areas of refining and petrochemistry It encompasses all the essential steps market analysis comparative studies of technical and economic issues sensitivity studies sizing and costing of the equipment required for an industrial scale plant estimation of capital spending calculation of costs and sales prices etc The first edition of this manual proved to be a very valuable teaching tool for universities and advanced engineering and business schools both in France and abroad It is essential for the rapid evaluation of the cost and profitability of proposed plants and of those already in operation It has been widely used by engineers consulting firms and corporate research and development departments Its status as the only current publication that covers all the steps involved in the economic evaluation of projects will render it particularly valuable to its users It will quickly become indispensable to everyone whose job it is to evaluate the economic impact of the development cancellation or reorientation of a project Contents 1 Market analysis 2 The elements of economic calculation 3 The determination of battery limits investments Appendix 1 Functional modules method FMM Appendix 2 PrE estimate method Bibliography Index

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 Petroleum Refining. Vol. 3 Conversion Processes Pierre

Leprince,2001-01-01 This volume describes the characteristics of processes used in petroleum refining upgrading light fractions reforming and isomerization converting distillates catalytic cracking hydrocracking and associated equipment converting residues visbreaking coking hydroconversion and reducing air and water pollution white product sweetening acid gas stack gas and waste water treatment This book is available in French Under the title le raffinage du p trole Tome 3 Proc d s de transformation Contents 1 Introduction 2 Basic principles governing chemical changes 3 Industrial catalysts 4 Catalytic reforming 5 Catalytic cracking 6 Isomerization of light paraffins 7 Aliphatic alkylation 8 Olefin etherification 9 Oligomerization 10 Hydrocracking 11 Visbreaking of residues 12 Coking 13 Residue hydroconversion 14 Hydrogen production 15 White products refining by sweetening 16 Hydrotreating 17 Acid gas treatment 18 Desulfurization of stack gases 19 Water treatment References Index Biotechnological Approaches in Waste Management Rangabhashiyam S,Ponnusami V,Pardeep Singh,2022-11-14 Waste generation from industrial and domestic sectors is imposing a very challenging environment and the intervention of biotechnology offers a viable solution for their effective management This book deals with the employment of biotechnological aspects for waste treatment including the basic concepts biochemical processes and various technologies for pollutant reduction and production of value added products for a cleaner environment It covers different aspects of biotechnology in the conservation of environment dealing with the sustainable management of waste through the concept of waste to economy along with the management of environmental pollutants and natural resource conservation Focuses on ecological approaches i e the use of biocatalysts and biotechnological approaches for waste management Explores the different biotechnology based solutions for the removal of environmental pollutants Covers various microbiological routes technological options for waste to energy removal of contaminants and the production of value added products Reviews the bioremediation potential of microbial strains and enzymes Explores the significant routes of biotechnological means of obtaining eco friendly products substituting the hazardous chemical based products This volume is aimed at researchers and professionals in environmental biotechnology and chemical engineering Process Intensification Technologies for Green Chemistry Kamelia Boodhoo,Adam Harvey,2013-01-03 The successful implementation of greener chemical processes relies not only on the development of more efficient catalysts for synthetic chemistry but also and as

importantly on the development of reactor and separation technologies which can deliver enhanced processing performance in a safe cost effective and energy efficient manner Process intensification has emerged as a promising field which can effectively tackle the challenges of significant process enhancement whilst also offering the potential to diminish the environmental impact presented by the chemical industry Following an introduction to process intensification and the principles of green chemistry this book presents a number of intensified technologies which have been researched and developed including case studies to illustrate their application to green chemical processes Topics covered include Intensified reactor technologies spinning disc reactors microreactors monolith reactors oscillatory flow reactors cavitation reactors Combined reactor separator systems membrane reactors reactive distillation reactive extraction reactive absorption Membrane separations for green chemistry Industry relevance of process intensification including economics and environmental impact opportunities for energy saving and practical considerations for industrial implementation Process Intensification for Green Chemistry is a valuable resource for practising engineers and chemists alike who are interested in applying intensified reactor and or separator systems in a range of industries to achieve green chemistry principles

Chemical Reactor Development D. Thoenes, 2013-12-14 Chemical Reactor Development is written primarily for chemists and chemical engineers who are concerned with the development of a chemical synthesis from the laboratory bench scale where the first successful experiments are performed to the design desk where the first commercial reactor is conceived It is also written for those chemists and chemical engineers who are concerned with the further development of a chemical process with the objective of enhancing the performance of an existing industrial plant as well as for students of chemistry and chemical engineering In Part I the how and the why of chemical reaction engineering are explained particularly for those who are not familiar with this area Part II deals with the effects of a number of physical phenomena on the outcome of chemical reactions such as micro and meso mixing and residence time distribution mass transfer between two phases and the formation of another phase such as in precipitations These scale dependent effects are not only important in view of the conversion of chemical reactions but also with regard to the selectivity and in the case of solid products to their morphology In Part III some applications are treated in a general way including organic syntheses the conversion and formation of inorganic solids catalytic processes and polymerizations The last chapter gives a review of the importance of the selectivity for product quality and for the purity of waste streams For research chemists and chemical engineers whose work involves chemical reaction engineering The book is also suitable as a supplementary graduate text

Thermodynamics Jean Vidal, 1980 The simulation and optimization of processes assumes that the thermodynamic properties and phase equilibria of the mixtures concerned are well known This knowledge is still based upon experimentation but it is also the result of calculation methods based on the principles of thermodynamics that govern them insure their coherence and confer upon them a wide range of application This text is concerned primarily with the description of these methods and their evolution It

devotes extensive space to fundamental concepts and places particular emphasis on the models that although based on simplified concepts of the subject matter at the molecular level have predictive character Computational examples are used to explain the application of these concepts and models Contents 1 Principles Thermodynamic functions The ideal gas 2 Properties of pure substances 3 Predicting thermodynamic properties of pure substances General principles Corresponding states Group contributions 4 Equations of state 5 Characterization of mixtures 6 Mixtures liquid vapor equilibria 7 Deviations from ideality in the liquid phase 8 Application of equations of state to mixtures Calculation of liquid vapor equilibria under pressure 9 Liquid liquid and liquid liquid vapor equilibria 10 Fluid solid equilibria Crystallization Hydrates 11 Polymer solutions and alloys 12 Multicomponent mixtures 13 Chemical reactions Appendixes Index Bibliography

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