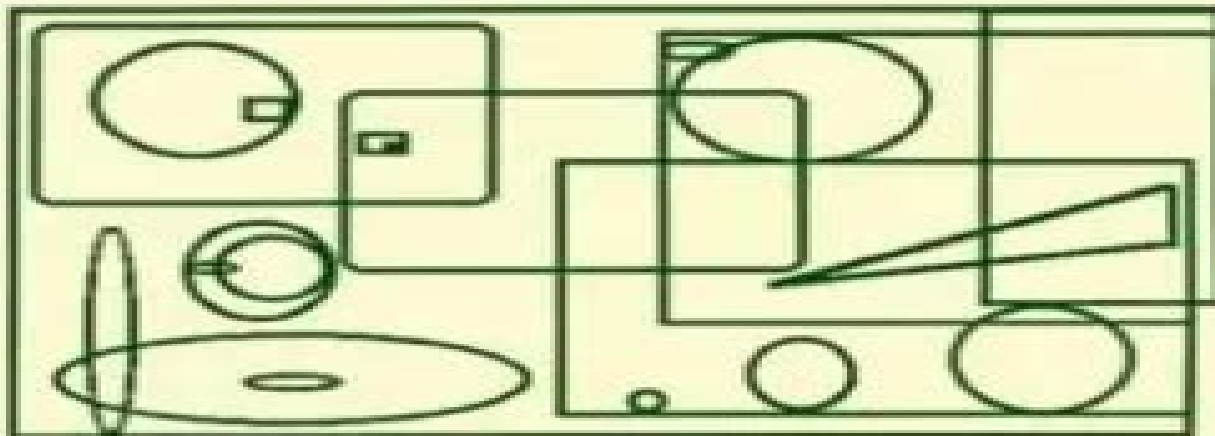
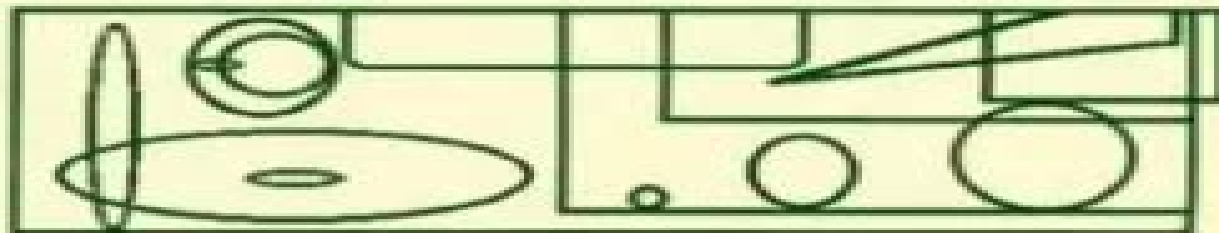


# Process Scaleup and Design



**Gary B. Tatterson**



# Process Scaleup And Design

**Jamal Chaouki, Rahmat Sotudeh-  
Gharebagh**



## **Process Scaleup And Design:**

*Process Scaleup and Design* Gary B. Tatterson, 2002 Process Scaleup and Design provides the general methods used to scaleup a process The book contains how to 1 set process objectives for scaleup 2 use the basic concepts of scaleup 3 use various scaleup methods 4 avoid mistakes in scaleup 5 utilize process options 6 benefit from understanding unpredictability 7 treat the business of scaleup and 8 improve safety *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 *Scaleup and Design of Industrial Mixing Processes* Gary B. Tatterson, 1994 **Scale-up**

**Methodology for Chemical Processes** Jean-Paul Euzen, Pierre Trambouze, Jean-Pierre Wauquier, 1993 Having gained considerable experience in process development at the Institut FranCais du PEtrole the authors present a design framework a review of the available means of investigation and several examples illustrating their methodology of industrial process scale up The salient feature of the book is the fact that it addresses a subject which is vital in view of its economic repercussions yet relatively unknown in technical and scientific circles due to the confidentiality surrounding it Contents 1 Main guidelines of the methodology 2 Various types of model 3 Pilot plants and mock ups 4 Experimental techniques 5 Applications to industrial process development 6 Conclusions References Index *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 **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

**Process Understanding** Ian Houson, 2011-04-08 Process Understanding For Scale Up and Manufacture of Active Ingredients Process Understanding is the underpinning knowledge that allows the manufacture of chemical entities to be

carried out routinely robustly and to the required standard of quality This area has gained in importance over the last few years particularly due to the recent impetus from the USA s Food and Drug Administration This book covers the multidisciplinary aspects required for successful process design safety modeling scale up PAT pilot plant implementation plant design as well the rapidly expanding area of outsourcing In discussing what process understanding means to different disciplines and sectors throughout a product s life cycle this handbook and ready reference reveals the factors important to the development and manufacture of chemicals The book focuses on the fundamental scientific understanding necessary for a smoother technical transfer between the disciplines leading to more effective and efficient process development and manufacturing A range of case studies are used to exemplify and illustrate the main issues raised As a result readers will appreciate that process understanding can deliver a real competitive advantage within the pharmaceuticals and fine chemicals industry This book serves as an aid to meeting the stringent regulations required by the relevant authorities through demonstrable understanding of the underlying science

**Chemical Reactor Design, Optimization, and Scaleup** E. B. Nauman,2002 The author provides an explanation of multiple chemical reactors in this book Also included are numerical solutions and chapters on bio chemicals and polymers Midwest

Statistical Design and Analysis in Pharmaceutical Science Shein-Chung Chow,Jen-pei Liu,2018-10-03 Offers a comprehensive unified presentation of statistical designs and methods of analysis for all stages of pharmaceutical development emphasizing biopharmaceutical applications and demonstrating statistical techniques with real world examples

**Pilot Plants and Scale-up of Chemical Processes** William Hoyle,1997 One of the biggest challenges facing today s chemist and chemical engineer is the translation of bench chemistry to the pilot plant This book provides expert insights into current best practice and will prove an indispensable manual for all those involved in pilot plant design and scale up implementation process chemists engineers and managers alike The international expertise of the contributors covers a wide range of topics and new material covered includes the removal of heavy metals from effluent heat flow calorimetry low temperature processes good manufacturing practice in pilot plants design issues the use of statistical methods in the running of pilot plants Pilot Plants and Scale Up of Chemical Processes is a must for all those who are and wish to remain expert in the field providing for the first time in print a comprehensive and unique perspective of pilot plant production

Process Mixing Gary B. Tatterson,1992 *Euro Ceramics VIII* Hasan Mandal,Lütfi Öveçoglu,2004-05-15 Proceedings of the 8th Conference and Exhibition of the European Ceramic Society Istanbul Turkey June 29 July 3 2003

**Pilot Plants and Scale-up of Chemical Processes II** William Hoyle,1999 Presents seven papers from an October 1998 symposium of interest to those responsible for translating bench chemistry up to 10 100 liter pilot plants and for those responsible for operating such pilot plants Looks at productivity particularly in relation to batch processing and meeting the threat from overseas manufacturing and details a collaboration project between industry and academia in the UK Discusses chemical aspects of scale up the use of phase transfer catalysis

control of crystallization and scale up of organo lithium and Grignard reactions Safety concepts are also covered Annotation copyrighted by Book News Inc Portland OR **Flue Gas Desulfurization and Industrial Minerals** M. Michael Miller, Deborah A. Kramer, G. Oliver Vagt, 1993 Contains 4 101 references on FGD Flue Gas Desulfurization primarily from 1982 through June 1993 Complements the Flue Gas Desulfurization and Denitrification bibliography published by the U S Dept of Energy in Jan 1985 References were located on the Energy Science and Technology Pollution Abstracts and Environmental Bibliography databases Primarily covers FGD and the use of industrial minerals in the desulfurization process or in by product utilization and disposal Emphasizes post combustion removal of sulfur dioxide through processes such as in duct injection and wet and dry scrubbing **Pharmaceutical Biotechnology** Melvin E. Klegerman, 1992

Instrumentation Scale-up from Laboratory to Pilot Plant to Production, 1962 **Bioreactor Design and Product Yield** Open Universiteit (Heerlen, Netherlands), Thames Polytechnic, 1992 This text utilizes basic knowledge of transport phenomena modelling and bioreactor types to develop an in depth approach to the applications of the various bioreactor types The strategy used is a generic one in which relationships between measurable parameters and reactor performance are established This approach provides the reader with knowledge that is applicable in a wide range of circumstances and develops an analytical awareness of the issues involved in bioreactor design and performance **Scale-Up in Education** Barbara Schneider, Sarah-Kathryn McDonald, 2006-12-05 Scale Up in Education Volume 1 Ideas in Principle examines the challenges of scaling up from a multidisciplinary perspective It brings together contributions from disciplines that routinely take promising innovations to scale including medicine business engineering computing and education Together the contributors explore appropriate methods for estimating the effects of innovations in larger more diverse settings and provide theories and models to guide the design of innovations most likely to remain viable at large scales Specially commissioned commentaries also discuss the analytical requirements and theoretical possibilities of a program of educational research on scale up built upon these foundations This volume is ideally suited for researchers policymakers and graduate students charged with determining the effectiveness of educational interventions With its insights into the conceptual and methodological prerequisites for obtaining rigorous actionable evidence of intervention effects the volume provides reading for program evaluation courses in schools of education and public policy **Biotechnology: Bioprocessing** Hans-Jürgen Rehm, Gerald Reed, 1993 Bioprocessing an exciting new engineering discipline It combines the development and optimization of biotechnological processes with effective strategies to recover and purify the desired products Safety as well as cost play an important role here This volume covers the immensely differentiated spectrum of techniques and operations of bioprocessing presented by the most competent experts in the field An overview of upstream and downstream processing is given fermentation and cell culture processes and the design of microbial fermenters are presented A closing group of chapters is dedicated to issues of process validation measurement and regulation Topics

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