

Marko Zlokarnik

Dimensional Analysis and Scale-up in Chemical Engineering



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Marko Zlokarnik



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Dimensional Analysis and Scale-up in Chemical Engineering Marko Zlokarnik, 2012-12-06 Contemporary Chemical Process Engineers face complex design and research problems Temperature dependent physical properties and non Newtonian flow behavior of substances in a process cannot be predicted by numerical mathematics Scaling up equipment for processing can often only be done with partial similarity methods Standard textbooks often neglect topics like dimensional analysis theory of similarity and scale up This book fills this gap It is aimed both at university students and the process engineer It presents dimensional analysis very comprehensively with illustrative examples of mechanical thermal and chemical processes

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

Pilot Plants, Models, and Scale-up Methods in Chemical Engineering Robert Edgeworth Johnstone, Meredith Wooldridge Thring, 1957

Chemical Engineering Fluid Mechanics Ron Darby, Raj P. Chhabra, 2016-11-30 This book provides readers with the most current accurate and practical fluid mechanics related applications that the practicing BS level engineer needs today in the chemical and related industries in addition to a fundamental understanding of these applications based upon sound fundamental basic scientific principles The emphasis remains on problem solving and the new edition includes many more examples

Scaling Chemical Processes Jonathan Worstell, 2016-06-08 *Scaling Chemical Processes Practical Guides in Chemical Engineering* is one of a series 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 for engineering professionals who require a basic grounding in various related topics 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

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Lectures in Electrochemical Engineering and Technology - II R. C. Alkire,1983

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 **Bioprocess Technology** Mr. Rohit Manglik,2024-01-12 EduGorilla Publication is a trusted name in the

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Industrial Chemistry, 2003 *Journal of Design and Manufacturing*, 1995 *The Chemical Engineer*, 2008 **Handbook of Formulating Dermal Applications** Nava Dayan, 2016-12-15 The conceptualization and formulation of skin care products intended for topical use is a multifaceted and evolving area of science Formulators must account for myriad skin types emerging opportunities for product development as well as a very temperamental retail market Originally published as *Apply Topically* in 2013 now out of print this reissued detailed and comprehensive handbook offers a practical approach to the formulation chemist's day to day endeavors by Addressing the innumerable challenges facing the chemist both in design and at the bench such as formulating with for specific properties formulation processing and production techniques sensory and elegance stability and preservation color cosmetics sunscreens Offering valuable guidance to troubleshooting issues regarding ingredient selection and interaction regulatory concerns that must be addressed early in development and the extrapolation of preservative systems fragrances stability and texture aids Exploring the advantages and limitations of raw materials Addressing scale up and pilot production process and concerns Testing and Measurements Methods The 22 chapters written by industry experts such as Roger L McMullen Paul Thau Hemi Nae Ada Polla Howard Epstein Joseph Albanese Mark Chandler Steve Herman Gary Kelm Patricia Aikens and Sam Shefer along with many others give the reader and user the ultimate handbook on topical product development *AIChE Symposium Series*, 1983 **Engineering Design** George Ellwood Dieter, 1991 The second edition has been reorganized so that the book starts directly with a consideration of the design process and then goes on to show how design fits into society the engineering organization and technology innovation process Much greater emphasis is given to ideas for conceptual design *Chemical Engineering Progress*, 2003 *Kirk-Othmer Encyclopedia of Chemical Technology, Volume 9* Arza Seidel, 2004-12-21 Presents a wide scope of articles on chemical substances properties manufacturing and uses on industrial processes unit operations in chemical engineering and on fundamentals and scientific subjects related to the field Describes established technology along with cutting edge topics of interest in the wide field of chemical technology *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 **Physical Principles of Chemical Engineering** Peter Grassmann, 1971 **Chemical Engineering** John Metcalfe Coulson, John Francis Richardson, 1977

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