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Transport Phenomena in Micro Process Engineering

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Transport Phenomena In Micro Process Engineering Heat And Mass Transfer

**Volker Hessel, Albert Renken, Jaap C.
Schouten, Jun-Ichi Yoshida**



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Transport Phenomena in Micro Process Engineering Norbert Kockmann, 2007-11-12 In this book the fundamentals of chemical engineering are presented aiming to applications in micro system technology microfluidics and transport processes within microstructures After a general overview on both disciplines and common areas recent projects are shortly presented The combination of different disciplines gives new opportunities in microfluidic devices and process intensification respectively Special features of the book are the state of the art in micro process engineering a detailed treatment of transport phenomena for engineers a design methodology from transport effects to economic considerations a detailed treatment of chemical reaction in continuous flow microstructured reactors an engineering methodology to treat complex processes The book addresses researchers and graduate students in the field of chemical engineering Microsystems engineering and chemistry

Transport Phenomena Norbert Kockmann, 2008-02-01 Transport Phenomena in Micro Process Engineering puts fundamentals of chemical engineering into context with micro system technology microfluidics and transport processes within microstructures After a general overview about both disciplines and common areas the text presents numerous recent projects as examples The text also applies transport of momentum heat and mass in microstructures to chemical reactors and coupled transport phenomena and their potential are illustrated to the reader The book concludes with an evaluation of the state of the art and an outlook upon the next steps to come in research

Micro Process Engineering, 3 Volume Set Volker Hessel, Albert Renken, Jaap C. Schouten, Jun-Ichi Yoshida, 2009-03-23 This three volume handbook provides an overview of the key aspects of micro process engineering Volume 1 covers the fundamentals operations and catalysts volume 2 examines devices reactions and applications with volume 3 rounding off the trilogy with system process and plant engineering Fluid dynamics mixing heat mass transfer purification and separation microstructured devices and microstructured reactors are explained in the first volume Volume 2 segments microreactor design fabrication and assembly bulk and fine chemistry polymerisation fuel processing and functional materials into understandable parts The final volume of the handbook addresses microreactor systems design and scale up sensing analysis and control chemical process engineering economic and eco efficiency analyses as well as microreactor plant case studies in one book Together this 3 volume handbook explains the science behind micro process engineering to the scale up and their real life industrial applications

Chemical Micro Process Engineering Volker Hessel, Steffen Hardt, Holger Löwe, 2006-03-06 Micro process engineering is approaching both academia and industry With the provision of micro devices and systems by commercial suppliers one main barrier for using these units has been eliminated More and more they become familiar thereby being one facet of the upheaval in chemical industry This book focuses on processes rather than on devices what is before and behind micro device fabrication A comprehensive and detailed overview is given on A multi faceted hierarchic analysis of chemical micro process technology Modelling and simulation of micro reactors Liquid and liquid liquid phase

reactions Gas liquid reactions Gas phase reactions heterogeneous catalysis **Micro Process Engineering** Norbert Kockmann, 2013-03-26 This edition of Micro Process Engineering was originally published in the successful series Advanced Micro Nanosystems Authors from leading industrial players and research institutions present a concise and didactical introduction to Micro Process Engineering the combination of microtechnology and process engineering into a most promising and powerful tool for revolutionizing chemical processes and industrial mass production of bulk materials fine chemicals pharmaceuticals and many other products The book takes the readers from the fundamentals of engineering methods transport processes and fluid dynamics to device conception simulation and modelling control interfaces and issues of modularity and compatibility Fabrication strategies and techniques are examined next focused on the fabrication of suitable microcomponents from various materials such as metals polymers silicon ceramics and glass The book concludes with actual applications and operational aspects of micro process systems giving broad coverage to industrial efforts in America Europe and Asia as well as laboratory equipment and education *Microstructured Devices for Chemical Processing* Madhvanand N. Kashid, Albert Renken, Liubov Kiwi-Minsker, 2014-12-22 Faster cheaper and environmentally friendly these are the criteria for designing new reactions and this is the challenge faced by many chemical engineers today Based on courses taught by the authors this advanced textbook discusses opportunities for carrying out reactions on an industrial level in a technically controllable sustainable costeffective and safe manner Adopting a practical approach it describes how miniaturized devices mixers reactors heat exchangers and separators are used successfully for process intensification focusing on the engineering aspects of microstructured devices such as their design and main characteristics for homogeneous and multiphase reactions It addresses the conditions under which microstructured devices are beneficial how they should be designed and how such devices can be integrated in an existing chemical process Case studies show how the knowledge gained can be applied for particular processes The textbook is essential for master and doctoral students as well as for professional chemists and chemical engineers working in this area **Basic Transport Phenomena in Materials Engineering** Manabu Iguchi, Olusegun J. Ilegbusi, 2013-09-12 This book presents the basic theory and experimental techniques of transport phenomena in materials processing operations Such fundamental knowledge is highly useful for researchers and engineers in the field to improve the efficiency of conventional processes or develop novel technology Divided into four parts the book comprises 11 chapters describing the principles of momentum transfer heat transfer and mass transfer in single phase and multiphase systems Each chapter includes examples with solutions and exercises to facilitate students learning Diagnostic problems are also provided at the end of each part to assess students comprehension of the material The book is aimed primarily at students in materials science and engineering However it can also serve as a useful reference text in chemical engineering as well as an introductory transport phenomena text in mechanical engineering In addition researchers and engineers engaged in materials processing operations will find the material useful for the design

of experiments and mathematical models in transport phenomena This volume contains unique features not usually found in traditional transport phenomena texts It integrates experimental techniques and theory both of which are required to adequately solve the inherently complex problems in materials processing operations It takes a holistic approach by considering both single and multiphase systems augmented with specific practical examples There is a discussion of flow and heat transfer in microscale systems which is relevant to the design of modern processes such as fuel cells and compact heat exchangers Also described are auxiliary relationships including turbulence modeling interfacial phenomena rheology and particulate systems which are critical to many materials processing operations *Sustainable Process Engineering* Andrzej Benedykt Koltuniewicz, 2014-08-19 The vital need for alternative resources and reaction routes environmentally friendly and economically feasible industrial chemical processes has become a ubiquitous reality This very timely introductory text covers new materials processes and industry sectors nanotechnology microreactors membrane separations hybrid processes clean technologies energy savings and safe production of energy renewables and biotechnology Some completely new processes for the solid liquid systems are also discussed in detail thus creating new opportunities of sustainable development not only in industrial practice *Heat and Mass Transfer Modelling During Drying* Mohammad U.H. Joardder, Washim Akram, Azharul Karim, 2021-09-30 Most conventional dryers use random heating to dry diverse materials without considering their thermal sensitivity and energy requirements for drying Eventually excess energy consumption is necessary to attain a low quality dried product Proper heat and mass transfer modelling prior to designing a drying system for selected food materials can overcome these problems *Heat and Mass Transfer Modelling During Drying Empirical to Multiscale Approaches* extensively discusses the issue of predicting energy consumption in terms of heat and mass transfer simulation A comprehensive mathematical model can help provide proper insight into the underlying transport phenomena within the materials during drying However drying of porous materials such as food is one of the most complex problems in the engineering field that is also multiscale in nature From the modelling perspective heat and mass transfer phenomena can be predicted using empirical to multiscale modelling However multiscale simulation methods can provide a comprehensive understanding of the physics of drying food materials **KEY FEATURES** Includes a detailed discussion on material properties that are relevant for drying phenomena Presents an in depth discussion on the underlying physics of drying using conceptual visual content Provides appropriate formulation of mathematical modelling from empirical to multiscale approaches Offers numerical solution approaches to mathematical models Presents possible challenges of different modelling strategies and potential solutions The objective of this book is to discuss the implementation of different modelling techniques ranging from empirical to multiscale in order to understand heat and mass transfer phenomena that take place during drying of porous materials including foods pharmaceutical products paper leather materials and more *Microreaction Technology* M. Matlosz, W. Ehrfeld, J.P. Baselt, 2012-12-06 IMRET 5 featured more than 80 oral and poster communications covering the

entire interdisciplinary field from design production modeling and characterization of microreactor devices to application of microstructured systems for production energy and transportation including many analytical and biological applications A particularly strong topic was the investigation of the potential of microstructuring of reactors and systems components for process intensification Perspectives of combining local in situ data acquisition with appropriate microstructuring of actuators and components within chemical and biological devices were explored in order to enhance process performance and facilitate process control

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