



TRANSPORT PHENOMENA IN MULTIPHASE SYSTEMS



AMIR FAGHRI

Distinguished Chair Professor
Professor of Heat Engineering
School of Engineering
University of Connecticut
Storrs, Connecticut

YUWEN ZHANG

Associate Professor
Department of Mechanical and
Aerospace Engineering
University of Missouri-Columbia
Columbia, Missouri

Transport Phenomena In Multiphase Systems

Jarosław Mikielwicz



Transport Phenomena In Multiphase Systems:

Transport Phenomena in Multiphase Systems Hamid Arastoopour, Dimitri Gidaspow, Robert W.

Lyczkowski, 2021-08-21 This volume fills the need for a textbook presenting basic governing and constitutive equations followed by several engineering problems on multiphase flow and transport that are not provided in current advanced texts monographs or handbooks The unique emphasis of this book is on the sound formulation of the basic equations describing multiphase transport and how they can be used to design processes in selected industrially important fields The clear underlying mathematical and physical bases of the interdisciplinary description of multiphase flow and transport are the main themes along with advances in the kinetic theory for particle flow systems The book may be used as an upper level undergraduate or graduate textbook as a reference by professionals in the design of processes that deal with a variety of multiphase systems and by practitioners and experts in multiphase science in the area of computational fluid dynamics CFD at U S national laboratories international universities research laboratories and institutions and in the chemical pharmaceutical and petroleum industries Distinct from other books on multiphase flow this volume shows clearly how the basic multiphase equations can be used in the design and scale up of multiphase processes The authors represent a combination of nearly two centuries of experience and innovative application of multiphase transport representing hundreds of publications and several books This book serves to encapsulate the essence of their wisdom and insight and *Transport Phenomena in Multiphase Systems* João M.P.Q. Delgado, Antonio Gilson Barbosa de Lima, 2018-05-09 This book presents a collection of recent contributions in the field of transport phenomena in multiphase systems namely heat and mass transfer It discusses various topics related to the transport phenomenon in engineering including state of the art theory and applications and introduces some of the most important theoretical advances computational developments and technological applications in multiphase systems domain providing a self contained key reference that is appealing to scientists researchers and engineers alike At the same time these topics are relevant to a variety of scientific and engineering disciplines such as chemical civil agricultural and mechanical engineering **Transport Phenomena in Multiphase Systems** Amir Faghri, Yuwen Zhang, 2006 Engineering students in a wide variety of engineering disciplines from mechanical and chemical to biomedical and materials engineering must master the principles of transport phenomena as an essential tool in analyzing and designing any system or systems wherein momentum heat and mass are transferred This textbook was developed to address that need with a clear presentation of the fundamentals ample problem sets to reinforce that knowledge and tangible examples of how this knowledge is put to use in engineering design Professional engineers too will find this book invaluable as reference for everything from heat exchanger design to chemical processing system design and more Develops an understanding of the thermal and physical behavior of multiphase systems with phase change including microscale and porosity for practical applications in heat transfer bioengineering materials science nuclear engineering

environmental engineering process engineering biotechnology and nanotechnology Brings all three forms of phase change i e liquid vapor solid liquid and solid vapor into one volume and describes them from one perspective in the context of fundamental treatment Presents the generalized integral and differential transport phenomena equations for multi component multiphase systems in local instance as well as averaging formulations The molecular approach is also discussed with the connection between microscopic and molecular approaches Presents basic principles of analyzing transport phenomena in multiphase systems with emphasis on melting solidification sublimation vapor deposition condensation evaporation boiling and two phase flow heat transfer at the micro and macro levels Solid liquid vapor interfacial phenomena including the concepts of surface tension wetting phenomena disjoining pressure contact angle thin films and capillary phenomena including interfacial balances for mass species momentum and energy for multi component and multiphase interfaces are discussed Ample examples and end of chapter problems with Solutions Manual and PowerPoint presentation available to the instructors

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Engineering students in a wide variety of engineering disciplines from mechanical and chemical to biomedical and materials engineering must master the principles of transport phenomena as an essential tool in analyzing and designing any system or systems wherein momentum heat and mass are transferred This textbook was developed to address that need with a clear presentation of the fundamentals ample problem sets to reinforce that knowledge and tangible examples of how this knowledge is put to use in engineering design Professional engineers too will find this book invaluable as reference for everything from heat exchanger design to chemical processing system design and more Develops an understanding of the thermal and physical behavior of multiphase systems with phase change including microscale and porosity for practical applications in heat transfer bioengineering materials science nuclear engineering environmental engineering process engineering biotechnology and nanotechnology Brings all three forms of phase change i e liquid vapor solid liquid and solid vapor into one volume and describes them from one perspective in the context of fundamental treatment Presents the generalized integral and differential transport phenomena equations for multi component multiphase systems in local instance as well as averaging formulations The molecular approach is also discussed with the connection between microscopic and molecular approaches Presents basic principles of analyzing transport phenomena in multiphase systems with emphasis on melting solidification sublimation vapor deposition condensation evaporation boiling and two phase flow heat transfer at the micro and macro levels Solid liquid vapor interfacial phenomena including the concepts of surface tension wetting phenomena disjoining pressure contact angle thin films and capillary phenomena including interfacial balances for mass species momentum and energy for multi component and multiphase interfaces are discussed Ample examples and end of chapter problems with Solutions Manual and PowerPoint presentation available to the instructors

Computational Transport Phenomena of Multiphase Systems and Fluidization Huilin Lu, Guodong Liu, Qinghong

Zhang,Xiaoxue Jiang,Boxue Pang,Wenjian Cai,2025-02-19 This book focuses on the modeling of gas solid liquid solid non Newtonian fluid solid and supercritical fluid solid fluidized beds and multiphase flows Simulation techniques are categorized into Euler Euler with kinetic theory of granular flow KTGF and Euler Lagrange with discrete element method DEM approaches Both the governing equations and numerical implementations are presented A new CFD KTGF DEM approach describes phase interactions free from the empirical restitution coefficient used in KTGF and accounts for turbulence effects on discrete particle motion which DEM cannot achieve Additionally a low Stokes number KTGF model is introduced incorporating the interstitial fluid s effect unlike the classical KTGF which assumes vacuum conditions Special attention is given to momentum exchange between heterogeneous and homogeneous flows in fluidized beds and multiphase systems and various multiscale drag models are presented The book also discusses the application of these approaches in fluid solid fluidized bed reactors and oil gas drilling processes *Transport Phenomena in Multiphase Systems* Dariusz

Butrymowicz,Józef Gościk,2008 **Transport Phenomena in Single and Multiphase Systems: New Developments at Different Fields** J.M.P.Q. Delgado,A.G. Barbosa de Lima,2019-09-10 Special topic volume with invited peer reviewed papers only *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 Transport Phenomena in Multiphase Systems ,2015 *HEAT2005* Jarosław Mikielwicz,2005

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