



TRANSPORT PHENOMENA IN MULTIPHASE SYSTEMS



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Transport Phenomena Multiphase Systems Faghri

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Transport Phenomena in Multiphase Systems Amir Faghri, Yuwen Zhang, 2006-05-25 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

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

Transport and Surface Phenomena Kamil Wichterle, Marek Vecer, 2020-04-22 Transport and Surface Phenomena provides an overview of the key transfers taking place in reactions and explores how calculations of momentum energy and mass transfers can help researchers develop the most appropriate cost effective solutions to chemical problems Beginning with a thorough overview of the nature of transport phenomena the book goes on to explore balances in transport phenomena including key equations for assessing balances before concluding by outlining mathematical methods for solving the transfer equations Drawing on the experience of its expert authors it is an accessible introduction to the field for students researchers and professionals working in chemical engineering The book and is also ideal for those in related fields such as physical chemistry energy engineering and materials science for whom a deeper understanding of these interactions could enhance their work Presents fundamental background knowledge and experimental methods in a clear and accessible style Cements information through problems for the reader to solve making the book ideal for learning teaching and refreshing subject knowledge Outlines mathematical approaches for solving energy transfers to show applications of the key equations in practice

Advanced Heat and Mass Transfer Amir Faghri, Yuwen Zhang, John R. Howell, 2010 All relevant advanced heat and mass transfer topics in heat conduction convection radiation and multi phase transport phenomena are covered in a single textbook and are explained from a fundamental point of view

Heat Transfer Phenomena and Applications Salim Newaz Kazi, 2012-10-24 Heat transfer calculations in different aspects of engineering applications are essential to aid engineering design of heat exchanging equipment Minimizing of computational time is a challenging task faced by researchers and users Methodology of calculations in some application areas are incorporated in this book such as differential analysis of heat recoveries with CFD in a tube bank heating and ventilation of equipment and methods for analytical solution of nonlinear problems Numerical analysis is the prerequisite of design and for the manufacture of heat exchanging equipment Some numerical and experimental information are presented with utmost skill Similarly the analytical solution of heat transfer is touched in this book Study of heat transfer phenomena and applications are equally emphasized in this issue

Computational Transport Phenomena for Engineering Analyses Richard C. Farmer, Ralph W. Pike, Gary C.

Cheng, Yen-Sen Chen, 2009-06-03 Although computer technology has dramatically improved the analysis of complex transport phenomena the methodology has yet to be effectively integrated into engineering curricula The huge volume of literature associated with the wide variety of transport processes cannot be appreciated or mastered without using innovative tools to allow comprehension

Introduction to Transport Phenomena Modeling Gianpaolo Ruocco, 2018-02-12 This textbook offers an introduction to multiple interdependent transport phenomena as they occur in various fields of physics and technology like transport of momentum heat and mass These phenomena are found in a number of combined processes in the fields of chemical food biomedical and environmental sciences The book puts a special emphasis on numerical modeling of both purely diffusive mechanisms and macroscopic transport such as fluid dynamics heat and mass convection To favor the applicability of the various concepts they are presented with a simplicity of exposure and synthesis has been preferred with respect to completeness The book includes more than 130 graphs and figures to facilitate the understanding of the various topics It also presents many modeling examples throughout the text to control that the learned material is properly understood There are some typos in the text You can see the corrections here http://www.springer.com/cda/content/document/cda_download/document/ErrataCorrige_v0.pdf SGWID 0 0 45 1679320 p181107156

Fundamentals of Multiphase Heat Transfer and Flow Amir Faghri, Yuwen Zhang, 2019-09-13 This textbook presents a modern treatment of fundamentals of heat and mass transfer in the context of all types of multiphase flows with possibility of phase changes among solid liquid and vapor It serves equally as a textbook for undergraduate senior and graduate students in a wide variety of engineering disciplines including mechanical engineering chemical engineering material science and engineering nuclear engineering biomedical engineering and environmental engineering Multiphase Heat Transfer and Flow can also be used to teach contemporary and novel applications of heat and mass transfer Concepts are reinforced with numerous examples and end of chapter problems A solutions manual and PowerPoint presentation are available to instructors While the book is designed for students it is also very useful for practicing engineers working in technical areas related to both macro and micro scale systems that emphasize multiphase multicomponent and non conventional geometries with coupled heat and mass transfer and phase change with the possibility of full numerical simulation

Thermosyphons and Heat Pipes: Theory and Applications Marcia Barbosa Henriques Mantelli, 2020-12-22 This book is about theories and applications of thermosyphons and heat pipes It discusses the physical phenomena that drive the working principles of thermosyphons heat pipes and related technologies Many applications are discussed in this book including rationalizing energy use in industry solar heating of houses decrease of water consumption in cooling towers improvement of the thermal performance of industrial and domestic ovens and driers and new devices for heating stored oil and gas in petrochemical plants Besides the book also presents heat pipe and thermosyphon technologies for the thermal management of electronic devices from portable equipment to airplanes and satellites The first part of the book explores the physical working principles of thermosyphons

and heat pipes by explaining current heat transfer and thermal resistance models The author discusses the new heat pipe and thermosyphon technologies that have been developed in the last decade for solving a myriad of electronic environment and industrial heat and thermal problems The focus then shifts to the thermosyphon technology applications and the models and simulations necessary for each application including vehicles domestic appliances water conservation technologies and the thermal control of houses and other structures Finally the book looks at the new technologies for heat pipes mini micro and similar devices loop heat pipes including new models for prediction of the thermal performance of porous media This book inspires engineers to adopt innovative approaches to heat transfer problems in equipment and components by applying thermosyphon and heat pipe technologies It is also of interest to researchers and academics working in the heat transfer field and to students who wish to learn more about heat transfer devices

Microfluidics and Nanofluidics Clement Kleinstreuer, 2013-12-04 Fluidics originated as the description of pneumatic and hydraulic control systems where fluids were employed instead of electric currents for signal transfer and processing Microfluidics and Nanofluidics Theory and Selected Applications offers an accessible broad based coverage of the basics through advanced applications of microfluidics and nanofluidics It is essential reading for upper level undergraduates and graduate students in engineering and professionals in industry

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