

Transport Phenomena in Advanced Materials Processing

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Abstract

There has been a major revolution in the development of new and advanced materials in recent years, particularly in optical and electronic materials and devices. These materials have changed the very spectrum of technology today. Transport mechanisms play a critical role in the thermal processing of materials because they determine changes in the structure and characteristics of the material and thus in the final product, such as in a crystal drawn from silicon melt or a gel from the chemical conversion of a biopolymer. This presentation focuses on the fluid flow and associated transport phenomena that arise in many relevant processes and are critical to the quality and characteristics of the final product, as well as to the operation and optimization of the system. A wide variety of material fabrication processes, such as the manufacture of optical glass fiber for telecommunications, fabrication of thin films by chemical vapor deposition and surface coating, involve microscale length scales due to the requirements on the devices and applications for which they are intended. For example, hollow fibers, which are used for sensors and power delivery, typically need fairly precise micro-scale wall thicknesses and hole diameters for satisfactory operation. The basic transport mechanisms underlying these processes are discussed. The importance of material characterization in accurate modeling and experimentation is brought out, along with the coupling between the process and the resulting properties such as uniformity, concentricity, porosity, and dimensions. Of particular interest are defects and other imperfections that may arise due to the transport phenomena. Additional aspects such as surface tension, stability, and free surface characteristics are also discussed. Some of the important methods to treat these problems and challenges are presented. Characteristic numerical and experimental results are discussed for some new and emerging areas. The talk also discusses current trends in materials processing and outlines future research needs. Of particular importance are experiments that would provide data for model validation and for better understanding of the underlying fluid flow mechanisms. Innovative modeling and numerical approaches needed to study the complex flows that commonly arise in materials processing are outlined.

Transport Phenomena In Material Processing

Puja Mehta



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Transport Phenomena in Materials Processing David R. Poirier,G. Geiger,2016-12-06 This text provides a teachable and readable approach to transport phenomena momentum heat and mass transport by providing numerous examples and applications which are particularly important to metallurgical ceramic and materials engineers Because the authors feel that it is important for students and practicing engineers to visualize the physical situations they have attempted to lead the reader through the development and solution of the relevant differential equations by applying the familiar principles of conservation to numerous situations and by including many worked examples in each chapter The book is organized in a manner characteristic of other texts in transport phenomena Section I deals with the properties and mechanics of fluid motion Section II with thermal properties and heat transfer and Section III with diffusion and mass transfer The authors depart from tradition by building on a presumed understanding of the relationships between the structure and properties of matter particularly in the chapters devoted to the transport properties viscosity thermal conductivity and the diffusion coefficients In addition generous portions of the text numerous examples and many problems at the ends of the chapters apply transport phenomena to materials processing

Transport Phenomena in Manufacturing and Materials Processing W.-J. Yang,S. Mochizuki,N. Nishiwaki,2016-01-21 Motivated by international competition and an easy access to high speed computers the manufacturing and materials processing industry has seen many changes in recent times New techniques are constantly being developed based on a broad range of basic sciences including physics chemistry and particularly thermal fluids sciences and kinetics In order to produce and treat massive products the industry is also in need of a very wide range of engineering knowledge and skill for integrating metallurgy mechanics electricity transport phenomena instrumentation and computer control This monograph covers a part of these demands namely by presenting the available knowledge on transport phenomena in manufacturing and materials processing It is divided into four parts Part I deals with the fundamentals of transport phenomena including the transfer of momentum energy mass electric and magnetic properties Parts II and III are concerned with applications of the fundamentals in transport phenomena occurring in manufacturing and materials processing respectively Emphasis has been placed on common aspects of both disciplines such as forming machining welding casting injection molding surface processes heating and cooling solidification crystal growth and diffusion Part IV deals with beam technology and microgravity two topics of current importance

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Transport Phenomena in Materials Processing, 1996-06-25 Materials processing and manufacturing are fields of growing importance whereby transport phenomena play a central role in many of the applications This volume is one of the first collections of contributions on the subject The five papers cover a wide variety of applications

An Introduction to Transport Phenomena in Materials Engineering David R. Gaskell, Matthew John M. Krane, 2024-01-24 This book elucidates the important role of conduction convection and radiation heat transfer mass transport in solids and fluids and internal and external fluid flow in the behavior of materials processes These phenomena are critical in materials engineering because of the connection of transport to the evolution and distribution of microstructural properties during processing From making choices in the derivation of fundamental conservation equations to using scaling order of magnitude analysis showing relationships among different phenomena to giving examples of how to represent real systems by simple models the book takes the reader through the fundamentals of transport phenomena applied to materials processing Fully updated this third edition of a classic textbook offers a significant shift from the previous editions in the approach to this subject representing an evolution incorporating the original ideas and extending them to a more comprehensive approach to the topic

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Introduces order of magnitude scaling analysis and uses it to quickly obtain approximate solutions for complicated problems throughout the book Focuses on building models to solve practical problems Adds new sections on non Newtonian flows turbulence and measurement of heat transfer coefficients Offers expanded sections on thermal resistance networks transient heat transfer two phase diffusion mass transfer and flow in porous media Features more homework problems mostly on the analysis of practical problems and new examples from a much broader range of materials classes and processes including metals ceramics polymers and electronic materials Includes homework problems for the review of the mathematics required

for a course based on this book and connects the theory represented by mathematics with real world problems This book is aimed at advanced engineering undergraduates and students early in their graduate studies as well as practicing engineers interested in understanding the behavior of heat and mass transfer and fluid flow during materials processing While it is designed primarily for materials engineering education it is a good reference for practicing materials engineers looking for insight into phenomena controlling their processes A solutions manual lecture slides and figure slides are available for qualifying adopting professors Companion website <https://transportphenomena.org>

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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 and Materials Processing Sindo Kou, 2008-03-24 An extremely useful guide to the theory and applications of transport phenomena in materials processing This book defines the unique role that transport phenomena play in materials processing and offers a graphic comprehensive treatment unlike any other book on the subject The two parts of the text are in fact two useful books Part I is a very readable introduction to fluid flow heat transfer and mass transfer for materials engineers and anyone not yet thoroughly familiar with the subject It includes governing equations and boundary conditions particularly useful for studying materials processing For mechanical and chemical engineers and anyone already familiar with transport phenomena Part II covers the many specific applications to materials processing including a brief description of various materials processing technologies Readable and unencumbered by mathematical manipulations most of which are allocated to the appendixes this book is also a useful text for upper level undergraduate and graduate level courses in materials mechanical and chemical engineering It includes hundreds of photographs of materials processing in action single and composite figures of computer simulation handy charts for problem solving and more

Transport Phenomena and Materials Processing Describes eight key materials processing technologies including crystal growth casting welding powder and fiber processing bulk and surface heat treating and semiconductor device fabrication Covers the latest advances in the field including recent results of computer simulation and flow visualization Presents special boundary conditions for transport phenomena in materials processing Includes charts that summarize commonly encountered boundary conditions and step by step procedures for problem solving Offers a unique derivation of governing equations that leads to both overall and differential balance equations Provides a list of publicly available computer programs and publications relevant to transport phenomena in materials processing An Instructor s Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

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