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E. J. Poirier, D. R. Poirier, G. H. Geiger



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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

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the relevant differential equations by applying the familiar principles

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 FEATURES 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>

Transport Phenomena and Materials Processing Kou, 1998-08-13

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 materials processing. Papers ; 1990, 1990

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