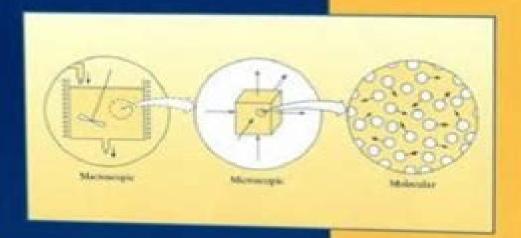
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to Transport Phenomena in Materials Engineering David R. Gaskell, Matthew John M. Krane, 2024-01-24 This book elucidates the important role of conduction convection and radiation heat transfer mass transport in solids and fluids and internal and external 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 Advanced Transport Phenomena John C. Slattery, 1999-06-28 The term transport phenomena describes the fundamental processes of momentum energy and mass transfer The author provides a thorough discussion of transport phenomena laying the foundation for understanding a wide variety of operations used by chemical engineers The book is arranged in three parallel parts covering the major topics of momentum energy and mass transfer Each part begins with the theory followed by illustrations of the way the theory can be used to obtain fairly complete solutions and concludes with the four most common types of averaging used to obtain approximate solutions A broad range of technologically important examples as well as numerous exercises are provided throughout the text Based on the author s extensive teaching experience a suggested lecture outline is also included This book is intended for first year graduate engineering students it will be an equally useful reference for researchers in this field Solutions manual available

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fluid which encompasses rocks biological tissues ceramics and much more Designed for use in graduate courses in various disciplines involving fluids in porous materials and as a reference for practitioners in the field the text includes exercises and practical applications while avoiding the complex math found in other books allowing the reader to focus on the central elements of the topic Covering general porous media applications including the effects of temperature and particle migration and placing an emphasis on energy resource development the book provides an overview of mass momentum and energy conservation equations and their applications in engineered and natural porous media for general applications Offering a multidisciplinary approach to transport in porous media material is presented in a uniform format with consistent SI units An indispensable resource on an extremely wide and varied topic drawn from numerous engineering fields Porous Media Transport Phenomena includes a solutions manual for all exercises found in the book additional questions for study purposes and PowerPoint slides that follow the order of the text

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