



AN INTRODUCTION TO

Transport Phenomena in Materials Engineering

SECOND EDITION

DAVID R. GASKELL



MOMENTUM PRESS

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E. J. Poirier



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Transport Phenomena in Materials Processing E.J. Poirer, D.R. Poirer, 2017-08-18 [An Introduction to Transport Phenomena In Materials Engineering, 2nd edition](#) David Gaskell, 2012-08-24 This classic text on fluid flow heat transfer and mass transport has been brought up to date in this second edition. The author has added a chapter on Boiling and Condensation that expands and rounds out the book's comprehensive coverage on transport phenomena. These new topics are particularly important to current research in renewable energy resources involving technologies such as windmills and solar panels. The book provides you and other materials science and engineering students and professionals with a clear yet thorough introduction to these important concepts. It balances the explanation of the fundamentals governing fluid flow and the transport of heat and mass with common applications of these fundamentals to specific systems existing in materials engineering. You will benefit from the use of familiar examples such as air and water to introduce the influences of properties and geometry on fluid flow. An organization with sections dealing separately with fluid flow, heat transfer, and mass transport. This sequential structure allows the development of heat transport concepts to employ analogies of heat flow with fluid flow and the development of mass transport concepts to employ analogies with heat transport. Ample high quality graphs and figures throughout. Key points presented in chapter summaries. End of chapter exercises and solutions to selected problems. An all new and improved comprehensive index.

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

Solutions Manual to Accompany Transport Phenomena in Materials Processing E. J. Poirier, D. R. Poirier, 2016

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Kinetics in Materials Science and Engineering Dennis W. Readey, 2017-01-27 A pedagogical gem Professor Readey replaces black box explanations with detailed insightful derivations A wealth of practical application examples and exercise problems complement the exhaustive coverage of kinetics for all material classes Prof Rainer Hebert University of Connecticut Prof Readey gives a grand tour of the kinetics of materials suitable for experimentalists and modellers In an easy to read and entertaining style this book leads the reader to fundamental model based understanding of kinetic processes critical to development fabrication and application of commercially important soft polymers biomaterials hard ceramics metals and composite materials It is a must have for anyone who really wants to understand how to make materials and how they will behave in service Prof Bill Lee Imperial College London Fellow of the Royal Academy of Engineering A much needed text filling the gap between an introductory course in materials science and advanced materials specific kinetics courses Ideal for the undergraduate interested in an in depth study of kinetics in materials Prof Mark E Eberhart Colorado School of Mines This book provides an in depth introduction to the most important kinetic concepts in materials science engineering and processing All types of materials are addressed including metals ceramics polymers electronic materials biomaterials and composites The expert author with decades of teaching and practical experience gives a lively and accessible overview explaining the principles that determine how long it takes to change material properties and make new and better materials The chapters cover a broad range of topics extending from the heat treatment of steels the processing of silicon integrated microchips and the production of cement to the movement of drugs through the human body The author explicitly avoids black box equations providing derivations with clear explanations

[Transport phenomena in materials processing. Papers ; 1990](#), 1990 *Introduction to Transport Phenomena* William Thomson, 1999-02

Transport Phenomena Bird, 2001-11 Careful attention is paid to the presentation of the basic theory Enhanced sections throughout text provide much firmer foundation than the first edition Literature citations are given throughout for reference to additional material

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

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corresponds with the most fundamental physical event of continuous evolution of latent heat of fusion for directional or non directional liquid to solid phase transformation at a specific interface with a certain geometrical shape such as planar or curved front Dr Perez introduces mathematical and engineering approximation schemes for describing the phase transformation mainly during solidification of pure metals and alloys Giving clear definitions and explanations of theoretical concepts and full detail of derivation of formulae this interdisciplinary volume is ideal for graduate and upper level undergraduate students in applied science and professionals in the metal making and surface reconstruction industries

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