



An Introduction to Transport Phenomena in Materials Engineering

David Gaskell

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Transport phenomena are the processes and rules by which heat, mass, and momentum move through and between materials and systems. Along with thermodynamics, mechanics, and electromagnetism, this body of knowledge and theory forms the core principals of all physical systems and is essential to all engineering disciplines. This new edition of a classic work on how transport phenomena behave in materials and materials systems will provide expanded coverage and up-to-date theory and knowledge from today's research on heat transfer and fluid behavior, with ample examples of practical applications to materials processing and engineering. Professional engineers and students alike will find one of the clearest and most accessible approaches to an often difficult and challenging subject. Logical pedagogy, with clear applications to real materials engineering problems will make more vivid the abstract body of knowledge that comprises today's understanding of transport phenomena. Readers will find: a new chapter on boiling and condensation; revised chapters on heat transport, mass transport in solid state and mass transport in fluids; revised and expanded end-of-chapter problems and exercises S.I. Units throughout; extensive Appendices of standard materials properties; and, for classroom use, a Solutions Manual is available.

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