

Transport Phenomena Multiphase Systems Faghri

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Presents basic principles of analyzing transport phenomena in multiphase systems with emphasis on melting, solidification, sublimation, vapor deposition, condensation, evaporation, boiling and two-phase flow heat transfer at the micro and macro levels

Transport Phenomena in Multiphase Systems - 1st Edition

Multiphase transport phenomena must be considered in the design and optimization of many engineering systems such as heat exchangers, heat pipes, cooling devices for electronics, biotechnology, nanotechnology, food processing equipment, and fuel cells. This chapter reviews the concept of phases of matter.

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Contents: Introduction to Transport Phenomena Thermodynamics of Multiphase Systems Generalized Governing Equations: Local Instance Formulations Generalized Governing Equations Averaging Formulations Solid-Liquid-Vapor Phenomena and Interfacial Heat and Mass Transfer Melting and Solidification Sublimation and Vapor Deposition Condensation Evaporation Boiling Two-Phase Flow and Heat Transfer ...

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Amir Faghri, Yuwen Zhang, in Transport Phenomena in Multiphase Systems, 2006. 1.5.1 Overview and Classifications. A multiphase system is one characterized by the simultaneous presence of several phases, the two-phase system being the simplest case. The term 'two-component' is sometimes used to describe flows in which the phases consist of different chemical substances.

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His textbook, Transport Phenomena in Multiphase Systems, presented, for the first time, a unified fundamental treatise on all three forms of phase change — boiling and evaporation, melting and solidification, and sublimation and vapor deposition. His latest textbook, Advanced Heat and Mass Transfer, covers the subject of heat and mass transfer with a focus on the recent advances in the field.

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The multi-fluid model performs averaging for each individual phase within a multiphase control volume (Faghri & Zhang, 2006). In this computational model, one set of equations is generated for ...

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1.5 Multiphase Systems and Phase Changes

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