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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

Transport Phenomena are the mechanisms by which energy and/or mass are dissipated or otherwise move through a system or from one system to another. Multiphase transport phenomena are those same mechanisms working through change states (phases) of matter, such as solid to liquid, solid to gas, and liquid to gas, or vice versa.

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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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The subject of transport phenomena in a multiphase system with phase change is important, because a unified physical/mathematical treatment is essential for engineering practitioners in the 21st century, who must cope with issues such as high heat flux and micro- or nanoscale systems for various applications.

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Transport Phenomena in Multiphase Systems Engineering students in a wide variety of engineering disciplines from mechanical and chemical to biomedical and materials engineering must master the principles of transport phenomena as an essential tool in analyzing and designing any system or

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systems wherein momentum, heat and mass are transferred.

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Faghri A. Transport phenomena in multiphase systems (Burlington, 2006).

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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

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simplest case.

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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.

Amir Faghri - Wikipedia

Chapter 1: Introduction. *Transport Phenomena in Multiphase Systems* by Amir Faghri & Yuwen. Zhang 1. 1.5 Multiphase Systems and Phase Changes. A multiphase system characterized by the simultaneous existence of several phases, the two-phase system being the simplest case.

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1.5 Multiphase Systems and Phase Changes

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