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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

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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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Main Transport Phenomena in Multiphase Systems Transport Phenomena in Multiphase Systems Amir Faghri and Yuwen Zhang (Auth.)

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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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