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Macro? to Microscale Heat Transfer | Wiley Online Books

the publication of the second edition of Macro- to Microscale Heat Transfer: The Lagging Behavior. Not only has the dual-phase-lag model been applied to a wide variety of heat-transfer problems from micro- to nanoscale, but the phase-lag concept has been extended to mass transport during the ultrafast transient. Meanwhile, the theoretical foundation of the

MACRO- TO MICROSCALE HEAT TRANSFER

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Key features: Takes a unified approach describing heat and mass transport from macro, micro to nanoscale Compares experimental results for model validation Includes easy to follow mathematical formulation Accompanied by a website hosting supporting material Macro- to Microscale Heat Transfer: The Lagging Behavior, Second Edition is a comprehensive reference for researchers and practitioners ...

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Microscale heat transfer is the transfer of thermal energy at the microscale level. There are two types of microscale heat transfer [3]: (1) thermal energy transfer related to small spaces, spaces that are sized between 1 and 200 μm , and (2) thermal energy related to small time domain with frequency up to several hundred hertz. For example, in human alveoli vessel that is sized around 175 μm in diameter there is only thermal energy transfer.

Microscale - an overview | ScienceDirect Topics

Micro-scale: Polymer reactions, related with the kinetic mechanism and micromixing occur at the micro-scale. Meso-scale: At meso-scale occur the collision induced coalescence and break up of droplets. Macro-scale: At this scale, the overall mass and energy balances, the heat and mass transfer from the reactor as well as the reactor dynamics and control can be described.