



Macro- To Micro-Scale Heat Transfer: The Lagging Behavior (Chemical and Mechanical Engineering Series)

D. Y. Tzou, D. y. Tzouc, Y. Tzou D.

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This work introduces a new concept in heat transfer, developing a transient model describing the fast-transient process of heat transport in solids with micro-structures. In describing the microstructural interaction effect in the short-term response, it extends the "macroscopic" concept that practising engineers are already familiar with. The dual-phase-leg model covers the existing macroscopic and microscopic models in the same framework, including the classical diffusion model employing the Fourier's law and the thermal wave model for dielectric films, insulators, and semi-conductors, and the photon-electron interaction model for metals (microscopic). Chapters cover the current status of microscale heat transfer, the lagging behaviour in the transient response, experimental evidence supporting the lagging behaviour in heat transport under various circumstances, the high-order effect of phase legs in the delayed response, and the possible effect of lagging responses in the related fields of elasticity and forced convection.

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