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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 ?m, 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 ?m 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.