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transfer of thermal energy at the microscaleng 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 Page 41/45

 $200 \, \mu m$, 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 um in diameter there is only thermal energy Page 42/45

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micro-scale. Meso-scale: At meso-scale occur the collision inducedor coalescence and break up of droplets. Macroscale: At this scale, the overall mass and energy balances, the heat and mass transfer Page 44/45

from the reactor as well as the reactor dynamics and control can be described.

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