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NUMERICAL HEAT TRANSFER - Thermopedia

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The three-dimensional (3D) governing equations for both liquid flow and heat transfer are solved using a standard finite volume method (FVM) for the range of Reynolds number between 4000 and 7000. The standard - turbulence model with wall function is employed.

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Teaching Fluid Mechanics and Heat Transfer with ...

Heat-transfer fluid is the key for transforming solar energy into heat. Currently used heat-transfer medium are typically fluids, mainly including water/steam, heat-transfer oil, molten salt, air, and the like.

Furthermore, ceramic solid particles can be used as a heat-transfer medium for the fluidized bed receiver.

Heat Transfer Fluid - an overview | ScienceDirect Topics

This article presents a numerical study of upward fluid flow and the corresponding convective heat transfer in a vertical porous annulus. The study investigated the effects of the inertia term, thermal dispersion, variable porosity, variable properties, buoyancy, particle diameter, and fluid pressure on the flow and heat transfer.

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