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This book comprises selected papers from the International Conference on Numerical Heat Transfer and Fluid Flow (NHTFF 2018), and presents the latest developments in computational methods in heat and mass transfer. It also discusses numerical methods such as finite element, finite difference, and finite volume applied to fluid flow problems.

Numerical Heat Transfer and Fluid Flow

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.

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Numerical heat transfer is a broad term denoting the procedures for the solution, on a computer, of a set of algebraic equations that approximate the

differential (and, occasionally, integral) equations describing conduction, convection and/or radiation heat transfer.

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Convective fluid flow and heat transfer in a vertical rectangular duct containing a horizontal porous medium and fluid layer J.C. Umavathi , O. Anwar Beg
The purpose of this paper is to investigate thermally and hydrodynamically fully developed convection in a duct of rectangular cross-section containing a porous medium and...
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Heat Transfer Fluid - an overview | ScienceDirect Topics
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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