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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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Numerical Heat Transfer and Fluid Flow Here is a self-contained, straight forward treatment of the practical details involved in computational activity for numerical heat transfer and fluid flow analysis.

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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.

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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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