

Jordan University of Science and Technology

Transient forced convection in the entrance region of porous concentric annuli

Authors: Al-Nimr, M.A., Aldoss, T.K., Najj, M.I.

Abstract: The problem of transient laminar forced convection in the entrance region of a porous concentric annulus with developing thermal boundary layer is solved numerically by the finite difference technique. The hydrodynamic behaviour of the flow is assumed to be steady and fully developed, and both Darcian and non-Darcian effects on the flow are considered.