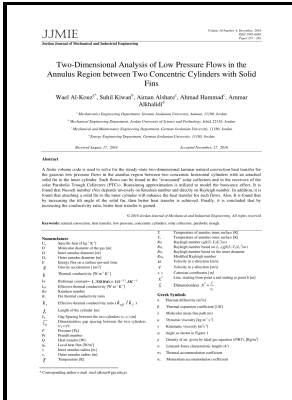


# Investigation of convective heat transfer between concentric cylinders. 1976.

## - - Mixed Convection Heat Transfer in the Annulus Between Two Concentric Vertical Cylinders Using Porous Layers



### Description: -

-investigation of convective heat transfer between concentric cylinders. 1976.

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Notes: M.Sc. (Fuel Technology) thesis for the Council for National Academic Awards.

This edition was published in 1976



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Tags: #Two #dimensional #analysis #of #low #pressure #flows #in #the #annulus #region #between #two #concentric #cylinders

### An experimental study of heat transfer in a vertical annulus with a rotating inner cylinder

The natural convection heat transfer of the steady state, laminar flow in a horizontal cylindrical annulus is solved numerically.

### NATURAL CONVECTIVE HEAT TRANSFER BETWEEN CONCENTRIC SPHERES. Final Report. (Technical Report)

In Table 2 we present the mean Nusselt number values and the maximum values of stream function depending on the number of nodes for two Rayleigh number cases 10 4 and 10 5 using the pure water. Natural convection between horizontal concentric cylinders with density inversion of water for low Rayleigh numbers. Average Nusselt number on the hot wall versus Rayleigh number for different concentrations Figure 3 shows the evolution of average Nusselt number along the inner cylinder in function of the volume fraction of silver nanoparticles at different values of Rayleigh number.

### Improvement of Free Convection Heat Transfer in a Concentric Cylindrical Annulus Heat Exchanger Using Nanofluid

International Journal of Heat and Mass Transfer 1988, 31 6 , 1137-1148. Study of natural convection in horizontal annuli. Entropy generation analysis during MHD natural convection flow of hybrid nanofluid in a square cavity containing a corrugated conducting block.

### Forced Convection inside a Vertical Circular Cylinder with an Inner Coaxial Rectangular Cylinder

The present work provides, for the first time, an experimental and numerical study of turbulent buoyancy induced flows in a narrow open-ended annulus. Prandtl number  $Pr$  is taken to be constant and is equal to 0.

### Forced Convection inside a Vertical Circular Cylinder with an Inner Coaxial Rectangular Cylinder

Based on the Knudsen number, the respective flow regimes are classified into four types according to Schaaf and Chambre and Cercignani and

Lampis. The system of equations governing the problem was solved numerically by the calculation code Fluent based on the finite volume method.

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