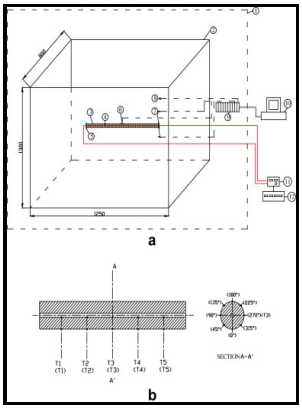
Investigation of convective heat transfer between concentric cylinders. 1976.

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



Description: -
-investigation of convective heat transfer between concentric cylinders. 1976.
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Notes: M.Sc. (Fuel Technology) thesis forthe Council for National Academic Awards.
This edition was published in 1976

Tags: #Numerical #Investigation #of #Natural #Convection #Heat #Transfer #from #Square #Cylinder #in #a #Vented #Enclosure

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

Numerical simulation of natural convection of water based nanofluids in horizontal eccentric cylindrical annuli. It is seen in the graph that at fixed values of Ra m, as Kn increases then the value of the conductivity ratio decreases.

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

Abstract: In the present work, the natural convection heat transfer from horizontal cylinder with square cross section situated in a square enclosure, vented symmetrically from the top and the bottom was investigated numerically. Heatline analysis on natural convection for nanofluids confined within square cavities with various thermal boundary conditions.

convection(?) in concentric cylinders

The Prandtl number is set to 0. 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. Flow Slip and temperature jump boundary conditions are imposed at the fluid-solid interface.

Thermal

We observe that, for the four results, the change in temperature is comparable. Physica A: Statistical Mechanics and Its Applications, 538: 122479. This does not mean that the heat transfer value is less than the value of heat transfer by conduction.

Correlating equations for natural convection heat transfer between horizontal circular cylinders

Unsteady laminar convective heat transfer from two isothermal cylinders of tandem arrangement is numerically investigated. This value depends on

the pressure inside the space.

Buoyancy Induced Convection in a Narrow Open

While the contours of the streamlines have kidney-like shapes with the center of the flow rotation moves upward due to effect of natural convection.

Numerical Investigation of Natural Convection Heat Transfer from Square Cylinder in a Vented Enclosure

The amplitudes of the streamlines increase by increasing the volume concentration of the silver nanoparticles and this increase becomes more considerable for the high values of the Rayleigh number. Heat Transfer Part A: Appl. For more information, readers are referred to the work of Menni et al.

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