

similarity transformations. The resulting equations are then solved using the homotopy analysis method (HAM). The effects of the magnetic parameter, Hall parameter, ion-slip parameter and couple stress fluid parameter on velocity and temperature are discussed and shown graphically.

Keywords: Free convection Couple stress fluid Magnetohydrodynamics Hall and ion-slip effects HAM

Received 2011-05-12; published 2012-01-20

Corresponding Authors: D. Srinivasacharya **Email:** dsc@nitw.ac.in; dsrinivasacharya@yahoo.com

Cite this article:

D. Srinivasacharya K. Kaladhar.Natural convection flow of a Couple stress fluid between two vertical parallel plates with Hall and Ion-slip effects[J] Acta Mechanica Sinica, 2012,V28(1): 41-50

Add to citation manager

D. -Srinivasacharya

Articles by authors

▶ Email Alert

K. -Kaladhar

IF RSS

Copyright 2010 by Acta Mechanica Sinica