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Effect of slip velocity on oscillatory MHD flow of stretched surface with radiative heat transfer and variable suction

AM Okedoye

Abstract

The study of unsteady magnetohydrodynamic heat and mass transfer in MHD flow of an incompressible, electrically conducting, viscous fluid past an infinite vertical porous plate along with

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porous medium of time dependent permeability with radiative heat transfer and variable suction has been made. Analytical solution of an oscillatory boundary layer flow bounded by two horizontal flat plates, one of which is oscillating in its own plane and the other at rest, is developed by asymptotic expansion in order of epsilon for velocity, temperature and magnetic fields. The fluid and the plates are in a state of solid body rotation with constant angular velocity about the z-axis normal to the plates. The structure of the boundary layers is also discussed. Several known results of interest are found to follow as particular cases of the solution of the problem considered. A parametric study of all parameters involved was considered, and a representative set of results showing the effect of controlling parameters are illustrated.

Journal of the Nigerian Association of Mathematical Physics, Volume 15 (November, 2009), pp 453 - 460

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DOI: http://dx.doi.org/10.4314%2Fjonamp.v15i1.

Journal of the Nigerian Association of Mathematical Physics. ISSN: 1116-4336

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