

NUMERICAL SOLUTION TO MHD FLOW OF VISCO- ELASTIC FLUID OVER A STETCHING SHEET

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Abstract

The present study of this paper deals with the study of the flow of an incompressible electrically conducting visco-elastic fluid referred to as Walter's liquid B over a porous non- isothermal stretching sheet using Keller box method. The sheet is assumed to stretch uni-directionally and the fluid above the sheet is at rest, if there were no stretching. The results are compared with those available in literature and seen to be good in agreement.

Keywords : Visco-elastic Fluid, Keller Box Method, MHD, Heat Transfer, Stretching Sheet.