

EFFECT OF RADIATION ON MHD FLOW OF VISCOELASTIC (WALTERS LIQUID MODEL-B) FLUID THROUGH POROUS MEDIUM WITH HEAT SOURCE

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Abstract

The aim of present investigation is to study the effect of radiation on MHD flow of Viscoelastic (Walters liquid model-B) fluid through porous medium with heat source. The effects of G_r (Grashof number), M (Hartmann number), K (Porosity parameter) and N (Radiation Parameter) on the velocity, temperature and skin friction are discussed with the help of tables and graphs. It is concluded that the velocity increases with the increase in M but it decreases with the increase in G_r , K and N .

Keywords: Radiation effect, Viscoelastic (Walters liquid model-B) fluid, Porous medium, MHD flow, Heat source.