Variable Viscosity Effects on Hydromagnetic Boundary

Layer Flow along a Continuously Moving Vertical Plate

In the Presence of Radiation

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Abstract. This work presents a study of the flow and heat transfer of an incompressible viscous electrically conducting fluid over a continuously moving vertical infinite plate with uniform suction and heat flux in the presence of radiation taking into account the effects of variable viscosity. It is found that the velocity increases as the viscosity of air or the magnetic parameter decreases and the thermal boundary layer thickness increases as the radiation parameter increases. The skin-friction coefficient is computed and discussed for various values of the parameters.

Keywords: MHD, variable viscosity, radiation.

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