

Inclined MHD slip flow of hybrid nanofluid over inclined plate with thermal radiation and viscous dissipation

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ABSTRACT

In this paper, we consider the slip boundary condition to analyse the thermally radiative inclined magnetohydrodynamics mixed convection hybrid nanofluid ($\text{Al}_2\text{O}_3\text{-Cu}$ /water) flow past an inclined shrinking permeable plate with viscous dissipation effect. The transformed non-linear governing equations are solved numerically by the boundary value problem of the fourth-order accuracy code (bvp4c). We draw the velocity and temperature profiles and study the effect of variation of Cu volume fraction, variation in angle of slip parameter and variation of applied magnetic field on velocity and temperature profiles are plotted and discussed.