عنوان مقاله:

Diffusion-Thermo and Thermal Radiation of an Optically Thick Gray Gas in Presence of Magnetic Field and Porous Medium

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خلاصه مقاله:

Diffusion-thermo and thermal radiation effects on an unsteady magnetohydrodynamic (MHD) free convective flow past a moving infinite vertical plate with the variable temperature and concentration in the presence of transverse applied magnetic field embedded in a porous medium have been analyzed. The flow is governed due to the impulsive as well as accelerated motion of the plate. The governing equations have been solved by employing the Laplace transform technique. The influences of the pertinent parameters on the velocity field, temperature distribution, concentration of the fluid, shear stress, rate of heat and mass transfers at the plate have been presented either graphically or in tabular form.

کلمات کلیدی:

Magnetohydrodynamic (MHD) flow, Impulsive and accelerated motion, Diffusion porous medium, Radiation

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