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(57) Abstract :

For the heat transfer problem in a steady laminar stagnation point flow of an incompressible electrically conducting micropolar fluid that impinges on a permeable flat plate with uniform suction/injection, an analysis is provided. A uniform magnetic field is applied to the plate on a normal basis. Consideration is provided to the effect of viscous dissipation. The governing partial differential equations are transformed to ordinary differential equations. Using the Matlab software, a numerical solution is obtained for the normal differential equations. The results are obtained for velocity and temperature profile.

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