عنوان مقاله:

HALL AND LON-SLIP EFFECTS ON MAGNETO-MICROPOLAR FLUID WITH COMBINED FORCED AND FREE CONVECTION IN BOUNDARY LAYER FLOW OVER A HORIZONTAL PLATE WITH VISCOUS DISSIPATION

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خلاصه مقاله:

In this paper, we study the effects of Hall and ion-slip currents on the steady magneto-micropolar of a viscous incompressible and electrically conducting fluid over a horizontal plate by taking in to account the viscous dissipation effects. By means of similarity solutions, deviation of fundamental equations on the assumption of small magnetic Reynolds number are solved numerically by using quasilinearised first and finite difference method. The effects of various parameters of the problem, e.g. the magnetic parameter, Hall parameter, ion- slip parameter, buoyancy parameter and material parameter and Eckert number are discussed and shown graphically.

کلمات کلیدی:

Hall effects, Ion-slip, buoyancy parameter, Eckert number, finite difference method

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1590189