

An MHD stagnation slip flow on a moving plate.

ABSTRACT

In this paper, the problem of a steady laminar boundary layer flow of an electrically conducting fluid in the presence of a magnetic field near the stagnation point with slip on a moving plate is studied. The transformed boundary layer equations are solved numerically using the shooting method. Numerical results are obtained for various values of the magnetic parameter M and the slip factor λ . The skin friction coefficients and the velocity profiles $f(\eta)$, $g(\eta)$ and $h(\eta)$ for various values of M and λ are obtained and discussed.

Keyword: MHD; Boundary layer; Stagnation point.