Article Abstract

Title:	**Magnetic field effect on a three-dimensional mixed convective flow with mass transfer along an infinite vertical porous plate**
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Abstract:	An analytical solution to the problem of the MHD free and forced convection three dimensional flow of an incompressible viscous electrically conducting fluid with mass transfer along a vertical porous plate with transverse sinusoidal suction velocity is presented. A uniform magnetic field is assumed to be applied transversely to the direction of the free stream. The expressions for skin friction at the plate in the direction of the main flow and the rate of heat transfer and mass transfer from the plate to the fluid are obtained in non-dimensional form. The amplitudes of the perturbed parts of these fields and the skin friction at the plate are presented in graphs and the effects of different physical parameters like Hartmann number M, Reynolds number R and the Schmidt number S on these fields are discussed and the results obtained are physically interpreted.
Keywords:	Viscous , incompressible, electrically conducting, sinusoidal suction