

HALL EFFECT ON MHD MIXED CONVECTION
FLOW OF A VISCOELASTIC FLUID PAST
AN INFINITE VERTICAL POROUS PLATE
WITH MASS TRANSFER AND RADIATION

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S u m m a r y

The unsteady hydromagnetic flow of a viscoelastic fluid from a radiative vertical porous plate has been studied, taking the effect of Hall currents and mass transfer into account. The resulting problem has been solved analytically and the closed form solutions are obtained for velocity, temperature, and concentration distributions, as well as for the shearing stress and rates of heat and mass transfer at the wall. The influence of various parameters like the Hall parameter, magnetic parameter, viscoelastic parameter, frequency parameter, etc. on the flow field is examined.