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RADIATION ABSORPTION AND SORET EFFECTS ON MHD CONDUCTING FLUID FLOW PAST AN EXPONENTIALLY ACCELERATED VERTICAL PLATE

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Abstract: In this article an investigation is done on hydromagnetic effects on electrically conducting fluid past an exponentially accelerated infinite vertical plate with exponentially varying temperature and concentration. The influence of thermal diffusion and radiation absorption is considered in this analysis. The problem is governed by coupled non-linear partial differential equations which are solved by finite difference method. The plate temperature is increasing linearly with time and the concentration level near the plate is increased. Among the effects of various