

## **Effect of mass Transfer on unsteady MHD Oscillatory Flow through a Porous Medium with Slip flow region and heat radiation**

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**Abstract:** In this paper, the effects of slip flow region, transverse magnetic field, mass transfer and heat transfer to unsteady flow of a conducting optically thin fluid through a channel filled with porous medium has been discussed. Exact solutions of the governing equations for fully developed flow are obtained in closed form. Detailed computations of the influence of the Grashof number, modified Grashof number, Hartmann number, slip parameter, porosity parameter and radiation parameter are discussed with the help of tables and graphs.

**Keywords:** Radiative heat, oscillatory flow, porous medium, slip flow region, MHD, mass transfer.

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