

**MASS TRANSFER EFFECT ON MHD FREE CONVECTIVE FLOW ON VISCO-ELASTIC
FLUID THROUGH POROUS MEDIUM OVER AN OSCILLATING
POROUS PLATE WITH HEAT AND MASS FLUX**

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ABSTRACT

Effect of Mass transfer on MHD free convective flow on visco-elastic fluid through porous medium over an oscillating porous plate with heat and mass flux has been studied. The dimensionless governing equations are solved using oscillatory flow equation having both harmonic and non harmonic parts. The velocity near the plate with slip flow regime is assumed to vary with respect to time. The influences of the various parameters on the flow field, mass concentration field, Temperature field and skin friction are extensively discussed from graphs and table.

KEYWORDS: Convective, Oscillating, Porous Medium, Visco-Elastic, MHD Mass Transfer, Second Grade Fluid, Heat & Mass Flux