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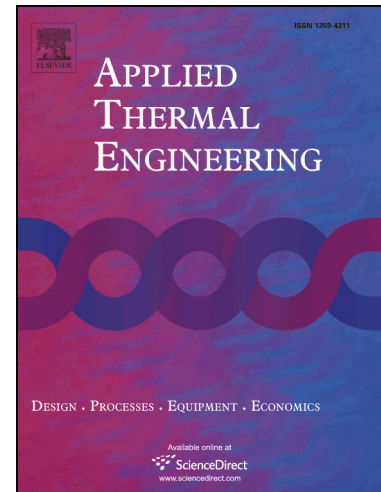
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Velocity, mass and temperature analysis of gravity-driven convection nanofluid flow past an oscillating vertical plate in presence of magnetic field in a porous medium

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Abstract:

The present paper is concerned with the mathematical modelling of flow, heat and mass transfer in the unsteady natural convection magneto hydrodynamics flow of electrically conducting Nano fluid, past over an oscillating vertical plate. The bounding plate has ramped temperature with ramped surface concentration and isothermal temperature with ramped surface concentration profile through porous medium. The governing non-dimensional system of partial differential equations with initial and boundary condition are solved analytically using Laplace transform. The features of the fluid flow, heat and mass transfer characteristics are analyzed by plotting graphs and the physical aspects are discussed in detail. With the help of velocity, temperature

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