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Entropy generation in MHD flow of a uniformly stretched vertical permeable surface under oscillatory suction velocity

AM Okedoye, AO Adesanya

Abstract

This paper reports the analytical calculation of the entropy generation due to heat and mass transfer and fluid friction in steady state of a uniformly stretched vertical permeable surface with heat and

mass diffusive walls, by solving analytically the mass, momentum, species concentration and energy balance equation, using asymptotic method. The velocity, temperature and concentration profiles were reported and discussed. The influences of the chemical reaction parameter, the thermal and mass Grashof numbers, heat generation/absorption and Hartmann number on total entropy generation were investigated, reported and discussed.

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