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NOMENCLATURE

\tilde{u}, \tilde{v}	velocity components along the direction x, y
T_1, T_2	temperatures at lower and upper plates
B_0	uniform magnetic field
c_p	specific heat at the constant pressure
k'	magnetic permeability
U, V	dimensionless velocity components
Nu_L	dimensionless local Nusselt number at upper plate
Re	Reynolds number
Pr	Prandtl number
Ec	Eckert number
Z	modified Hartmann number
R_D	Radiation parameter
J_0	applied current density in the electrodes
M_0	magnetization of the permanent magnets
T_m	dimensionless mean fluid temperature
a	width of magnets and electrodes
k^*	dimensional form is mean absorption coefficient

Greek symbols

σ^*	Stefan-Boltzmann constant
ρ	density of the fluid
τ_D	Bingham number or dimensionless yield stress
σ	electric conductivity of the fluid
κ	thermal conductivity
τ	dimensionless time
θ	dimensionless temperature
$\tilde{\mu}$	viscosity
τ_L	dimensionless local shear stress at upper plate