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NOMENCLATURE

k	Thermal conductivity of the fluid (W/m K)
c_p	Specific heat maintained at unvarying pressure (*J/kg K*)
f	Non dimensional stream function
u, v	Velocity components (*m/s*)
x, r	Dimensionless coordinates
γ	Mechanical thermal dispersion coefficient
T	Temperature fluid (^0C)
T_w	Surface temperature
T_∞	Fluid ambient temperature
$u_w(x)$	Stretching velocity
i	Time index at the time of navigation
L	Scale
t	Time
$\overline{N}$	Number of grid points
C_{fx}	Coefficient of skin friction
C	Fluid concentration
C_∞	Fluid ambient concentration
C_w	Concentration at the stretching surface

Greek symbols

α	Fluid thermal diffusivity (m^2/s)
μ	Fluid thermal viscosity ($N\ s/m$)
ρ	Density (kg/m^3)
τ_w	At wall shear stress
φ	Non-dimensional concentration
η	Similarity variable
$\upsilon = \frac{\mu}{\rho}$	Kinematic viscosity of the fluid
μ_o	Zero shear rate of viscosity of the fluid
μ_∞	Infinite shear rate of viscosity of the fluid
Γ	Material constant with time dependent
θ	Dimensionless temperature

Subscript

w	Surface condition
∞	Infinity condition

Super script

$'$	Derivative with respect to η