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NOMENCLATURE

A, B, C	constants
B_0	magnetic field (T-Tesla)
f	similarity function for velocity
k_0	viscoelastic constant
k_1	viscoelastic parameter ($= \alpha k_0 / \mu$)
u	velocity component along x-axis (m s ⁻¹)
v	velocity component along y-axis (m s ⁻¹)
x	axial axis (m)
y	transverse axis (m)

Greek symbols

α, β	constants rate of stretching/shrinking (s ⁻¹)
β^*	nonlinear stretching/shrinking (s ⁻¹)
σ	electrical conductivity
μ	viscosity (kg m ⁻¹ s ⁻¹)
ν	kinematic viscosity, ($= \mu/\rho$) (m ² s ⁻¹)
ρ	density (kgm ⁻³)
Γ	stretching/shrinking coefficient
ψ	physical stream function (m ² s ⁻¹)
δ	constant (s ⁻¹)
δ^*	nonlinear parameter

Subscripts/Superscripts

0	pole
w	wall condition
∞	far from the sheet
*	dimensionless quantities
f_Y	first order derivative with respect to Y
f_{YY}	second order derivative with respect to Y
f_{YYY}	third order derivative with respect to Y
f_{YYYY}	fourth order derivative with respect to Y