Hassanien, I. A.

Flow and heat transfer from a continuous surface in a parallel free stream of viscoelastic second-order fluid. (English) Zbl 0763.76005

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Boundary layer solutions are presented to investigate the steady flow and heat transfer characteristics from a continuous flat surface moving in a parallel free stream of viscoelastic fluid. Numerical results are presented for the distribution of velocity and temperature profiles within the boundary layer. The effects of the viscoelastic parameter of the fluid on the shear stress at the wall and rate of heat transfer are studied.

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