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Unsteady boundary-layer flow over jerked plate moving in a free stream of viscoelastic fluid

(2014) *Scientific World Journal*, 2014, art. no. 601950, .

Abstract

This study aims to investigate the unsteady boundary-layer flow of a viscoelastic non-Newtonian fluid over a flat surface. The plate is suddenly jerked to move with uniform velocity in a uniform stream of non-Newtonian fluid. Purely analytic solution to governing nonlinear equation is obtained. The solution is highly accurate and valid for all values of the dimensionless time $0 \leq \tau < \infty$. Flow properties of the viscoelastic fluid are discussed through graphs. © 2014 Sufian Munawar et al.

2-s2.0-84901781748

Document Type: Article

Publication Stage: Final

Source: Scopus

Access Type: Open Access