

## Flow of a power-law fluid with memory past an infinite plate

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### Abstract

We examined the flow of a power law fluid with a non-constant relaxation  $\lambda t^b$  past an infinite plate. When  $\lambda$  is zero the fluid is pseudoplastic and when the power law exponent is 1, the fluid is a Maxwell fluid. It is shown that the problem has a solution when  $0 < n \leq 1$ . Moreover, we show that momentum penetration decreases with  $\lambda$ .