

## Entropy Generation in Couple Stress Fluid Flow through Porous Channel with Fluid Slippage

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**Abstract:** : In this paper, entropy generation in couple stress fluid flowing steadily through a porous channel with slip at the isothermal walls is considered. The Navier slip model is employed at both walls. Analytical solutions for the governing nonlinear boundary-value problems are constructed using Adomian decomposition method (ADM). Important flow properties are presented and discussed including the entropy generation and irreversibility ratio.

**Keywords:** Entropy generation; Couple stress fluid; Fluid slippage; ADM; Adomian decomposition method; Porous channel.

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