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MATHEMATICAL ANALYSIS OF VISCO-ELASTIC FLUID FLOW THROUGH A CHANNEL

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Abstract

In the present paper, we have considered flow of "Walter Bliquid" between two parallel flat plates at distance h apart. The mathematical modeling and analysis which has been used in this paper has been solved by finite difference method. One plate moves with a constant velocity and other is at rest. The variations of shear stress relative to frequency parameter and kinematics viscosity are shown by table.

Key Words: Walter Bliquid, Shear stress, Frequency parameter, Kinematics viscosity, Amplitude, Phase angle.