

Flow of a Third Grade Fluid between Coaxial Cylinders with Variable Viscosity

Muhammad Y. Malik, Azad Hussain, Sohail Nadeem, and Tasawar Hayat

Department of Mathematics, Quaid-i-Azam University 45320, Islamabad 44000, Pakistan

Reprint requests to M. Y. M.; E-mail: drmymalik@hotmail.com

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The influence of temperature dependent viscosity on the flow of a third grade fluid between two coaxial cylinders is carried out. The heat transfer analysis is further analyzed. Homotopy analysis method is employed in finding the series solutions. The effects of pertinent parameters have been explored by plotting graphs.

Key words: Coaxial Cylinders; Variable Viscosity; Analytical Solutions.