

# INVESTIGATION OF MHD CASSON FLUID FLOW PAST A VERTICAL POROUS PLATE UNDER THE INFLUENCE OF THERMAL DIFFUSION AND CHEMICAL REACTION

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## ABSTRACT

In this manuscript, an attempt is made to study the Casson fluid flow past a vertical porous plate with thermal diffusion, chemical reaction in the presence of magnetic field has been studied. Analytical solutions are obtained by solving the constituted governing equations by using regular perturbation technique. The results are presented graphically and in tabular form for various controlling parameters.

**Keywords:** Magnetic Field, Casson Fluid, Slip Flow Regime, Thermal Diffusion and Chemical Reaction.

