

A Study of Williamson nanofluid through a convectively heated porous stretching surface with magneto hydrodynamics, irregular radiative heat flux and chemical consequence

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Abstract: The current research work is carried out to satisfy the aim to analyze the flow of Williamson nanofluid running over a convectively heated porous stretching sheet. The flow circumstances are examined under external magnetic field, irregular thermal radiation and chemical reaction. The mathematical modeling of physical situation is manipulated by utilizing similarity techniques. The effect of non-dimensional restrictions such as, magnetic field index, thermal radiation index, Williamson parameter, and porosity index on motion, energy and engrossment is graphically discussed.