



Effects of chemical reaction, heat and mass transfer on non linear laminar boundary - layer flow over a wedge with suction or injection

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An approximate numerical solution for the steady laminar boundary-layer flow over a wall of the wedge with suction or injection in the presence of species concentration and mass diffusion has been obtained by solving the governing equations using R.K. Gill method. The fluid is assumed to be a viscous and incompressible fluid. Numerical calculations up to third level of truncation are carried out for different values of dimensionless parameters and an analysis of the results obtained shows that the flow field is influenced appreciably by the chemical reaction (consumption and generation reactant) and suction or injection at the wall of the wedge.

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