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# AN ANALYTICAL SOLUTION OF JET-PROFILE SOLUTION OF ELECTRICALLY CONDUCTING NEWTONIAN FLUID IN PRESENCE OF MAGNETIC FIELD

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**Abstract**

The two dimensional laminar boundary layer flow of an incompressible, viscous, non-uniform stream past a solid obstacles in presence of special form of magnetic field, has been studied. A new branch of solutions of the similarity equation of an electrically conducting Newtonian fluid in the presence of a special form of magnetic field, are presented which displays jet-like behaviour. The effects of magnetic field are shown in this investigation.

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