

ON MHD FLOW OF A OLDROYD FLUID IN A POROUS MEDIUM AND ROTATING FRAME

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Abstract

In this paper MHD flow of Oldroyd fluid in a porous medium and rotating frame is studied. The hydromagnetic flow in the uniformly rotating fluid is generated by a suddenly moved infinite plate in its own plane. The equations of motion are solved by using Fourier Sine transform. The results of Singh and Sathi and T. Hayat, C. Fetecau and M. Sajid can be obtained as a special case.