ISAAC Conference, 23-27 April, 2007, Tbilisi, Georgia Dedicated to the Centenary of I.Vekua

HEAT TRANSFER WITH THE FLOW OF CONDUCTING FLUIDS IN CIRCULAR PIPES WITH FINITE CONDUCTIVITY UNDER UNIFORM TRANSVERSE MAGNETIC FIELDS

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The flow of conducting, viscous fluids in circular pipes under transverse magnetic fields is studied theoretically. The correlation of Hartmann's figure, Poisales' figure, Reynold's figure and conductivity of walls are considered.