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EFFECT OF MAGNETIC FIELD ON OSCILLATORY BLOOD FLOW THROUGH AN INDENTED TUBE WITH ATHEROSCLEROSIS

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Abstract

The object of the present investigation is to study the e.ect of an externally applied uniform transverse magnetic .eld on oscillatory .ow in the presence of slip velocity at the wall of the artery containing a mild stenosis. The analytical expressions for velocity, volumetric .ow rate, pressure gradient and wall shear stress have been obtained and some characteristics of them are also presented graphically to elucidate the problem.