

## **EFFECTS OF MAGNETISM AND BODY ACCELERATION ON BLOOD FLOWS HAVING MICROSTRUCTURAL PROPERTIES**

**MEENA KAULGI AND R. N. PRALHAD**

### **Abstract**

Modeling of blood flow in the constricted tube has been studied in the present investigations. Flow of Blood is assumed to be represented by a polar fluid [1] and the flow to be of two dimensional in nature. The flow accounts for body acceleration and magnetic effects in it. It is intended to study the model for effects of these (that is body acceleration and magnetism) on the flow variables such as velocity (both a axial and rotational), flow rate and on shear stress for different constricted radii's and for different blood diseases. In the present version, we would like to restrict our studies only to analytical results of the flow variables.