

MECHANICS

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ON INFLUENCE OF WALL LAYER OF SEDIMENT ON THE MOTION OF SUSPENSION IN PIPE

Abstract

We generalize Poiseuille formula in a pipe on whose walls sediment layer with different rheological properties is generated when inhomogeneous liquid flows. The relation between the values of mean in section concentration of particles $\langle \alpha \rangle$ and mean consumption concentration α_f by the quantity α_0 , used in constructing the profile α and dimensionless velocity of flows, is established.