Descivation Force of hydrostatic water pressure Fr and Fo acting on the two end of the free body F, = F2 (depth of mater at section Component of weight of water in the direction of flow wall sino W = Specific meight of water

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A = Wetted perimeter of the O = Angle of inclination of channel bottom with horizontal

(ii) The resistance of flow everted by wetted surface of channel of the Channel boundary Total resistance to flow = PLT.

2) According Newton's second low
of motion.

WAL SiNO - PLT = 0

To = W(A) SINO = WRS.

R = A Hydraulic radius

So = sino = slope of channel bottom

To = f pv2

Eg (1) & (2)

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