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## EXPERIMENT - 5

# Aim > To find the force of limiting friction for a block placed on horizontal surface.

Apparatus Required > horizontal plane, frictionless pully. pan, weights, thread, spirit level.

R= W+ w F = P + weight of pan u = coefficient of fuiction  $(\text{weight in pan}) \neq \text{ force}$   $u = F/R = \text{ fuiction} \neq \text{ Reaction}$ S.no. (Reaction) 1. 34+100=134  $u = \frac{85}{134} = 0.63$ 20 + 65 = 85u = 155/234 = 0.66 34 + 200 = 23420 + 135 = 155  $u = \frac{175}{334} = 0.53$ 34+300 = 334 100+70+5 = 175 34+400 = 434 u = 225/434 = 0.51 200 + 20 + 5 = 225

u = 0.63 + 0.66 + 0.53 + 0.51= 0.58N Ans

Actually  $\mu = F_2 - F_1$   $R_2 - R_1$ 

4 = 155 - 85 = 70= 0.7 Ans 234-134