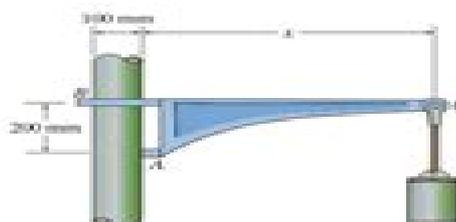


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***8-4.** If the coefficient of static friction at A is $\mu_s = 0.4$ and the collar at B is smooth so it only exerts a horizontal force on the pipe, determine the minimum distance x so that the bracket can support the cylinder of any mass without slipping. Neglect the mass of the bracket.



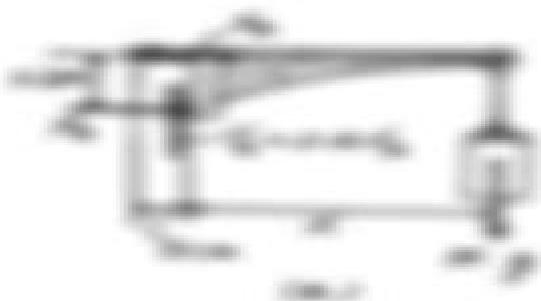
Free - Body Diagram. The weight of cylinder tends to cause the bracket to slide downward. Thus, the frictional force F_A must act upwards as indicated in the free-body diagram shown in Fig. a. Since the bracket is required to be on the verge of slipping so that $F_A = \mu_s N_A = 0.4N_A$.

Equations of Equilibrium.

$$\begin{aligned} \sum F_x = 0; & \quad 0.4N_A - m g = 0 & \quad N_A = 2.5m g \\ \sum M_B = 0; & \quad 2.5mg(0.2) + 0.4(2.5m g)(0.1) - m g(x + 0.1) = 0 \\ & \quad x = 0.5 \text{ m} \end{aligned}$$

Ans.

Note: Since x is independent of the mass of the cylinder, the bracket will not slip regardless of the mass of the cylinder provided $x > 0.5$ m.



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KJ Lindholm-Leary



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