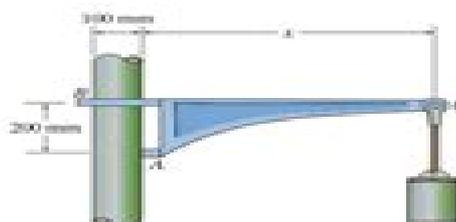


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***8-4.** If the coefficient of static friction at A is $\mu_s = 0.4$ and the collar at B is smooth so it only exerts a horizontal force on the pipe, determine the minimum distance x so that the bracket can support the cylinder of any mass without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



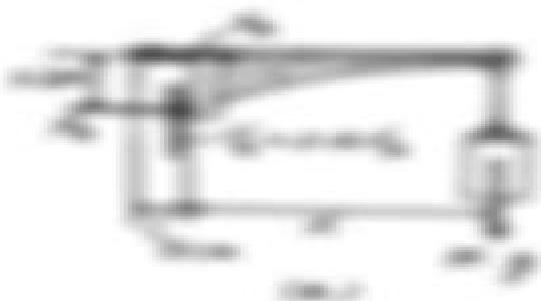
Free-Body Diagram. The weight of cylinder tends to cause the bracket to slide downward. Thus, the frictional force F_A must act upwards as indicated in the free-body diagram shown in Fig. a. Since the bracket is required to be on the verge of slipping so that $F_A = \mu_s N_A = 0.4N_A$.

Equations of Equilibrium.

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

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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A Loxley



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Equilibrium Finite Element Formulations J. P. Moitinho de Almeida, Edward A. Maunder, 2017-03-20 A comprehensive treatment of the theory and practice of equilibrium finite element analysis in the context of solid and structural mechanics Equilibrium Finite Element Formulations is an up to date exposition on hybrid equilibrium finite elements which are based on the direct approximation of the stress fields The focus is on their derivation and on the advantages that strong forms of equilibrium can have either when used independently or together with the more conventional displacement based elements These elements solve two important problems of concern to computational structural mechanics a rational basis for error estimation which leads to bounds on quantities of interest that are vital for verification of the output and provision of outputs immediately useful to the engineer for structural design and assessment Key features Unique in its coverage of equilibrium an essential reference work for those seeking solutions that are strongly equilibrated The approach is not widely known and should be of benefit to structural design and assessment Thorough explanations of the formulations for 2D and 3D continua thick and thin bending of plates and potential problems covering mainly linear aspects of behaviour but also with some excursions into non linearity Highly relevant to the verification of numerical solutions the basis for obtaining bounds of the errors is explained in detail Simple illustrative examples are given together with their physical interpretations The most relevant issues regarding the computational implementation of this approach are presented When strong equilibrium and finite elements are to be combined the book is a must have reference for postgraduate students researchers in software development or numerical analysis and industrial practitioners who want to keep up to date with progress in simulation tools

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