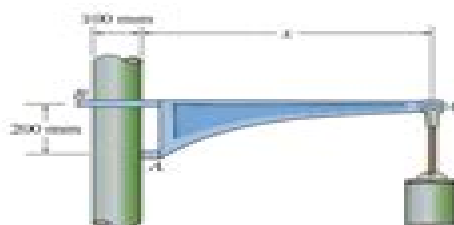


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***8-4.** If the coefficient of static friction at A is $\mu_s = 0.4$ and the collar at B is smooth so it only exerts a horizontal force on the pipe, determine the minimum distance x so that the bracket can support the cylinder of any mass without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



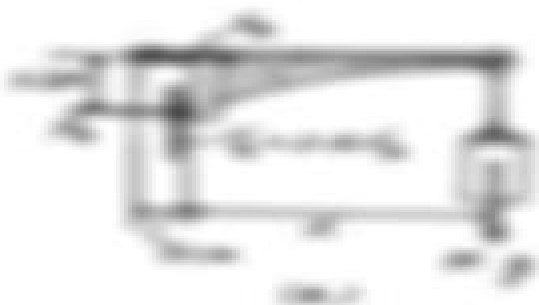
Free-Body Diagram. The weight of cylinder tends to cause the bracket to slide downward. Thus, the frictional force F_A must act upwards as indicated in the free-body diagram shown in Fig. a. Since the bracket is required to be on the verge of slipping so that $F_A = \mu_s N_A = 0.4N_A$.

Equations of Equilibrium.

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

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.



Chapter 8 Statics Solution Hibbeler

J Elliott



Chapter 8 Statics Solution Hibbeler:

The Top Books of the Year Chapter 8 Statics Solution Hibbeler The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Let's delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year.

The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

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Chapter 8 Statics Solution Hibbeler : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting.

These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered.

The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is an exceptional and gripping novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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