$$= 0.6 \times 1 \times 9.8 = 5.88 \text{ N}$$

The truck is accelerating at 5 m/s2.

The pseudo force acting on the mass Fig. 7.771 as seen by the observer on the truck is

$$m \times a = 1 \times 5 = 5 \text{ N}$$

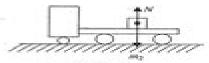


Fig. 7.771

The frictional force will try to oppose the movement of the mass by this force. Therefore the frictional force acting will be 5 N.

Method II As seen by the observer on the ground, the frictional force is responsible to more the mass with an acceleration of 5 m/s². Therefore the frictional force would be

$$= m \times a = 1 \times 5 = 5 \text{ N}$$

Let A be the area of cross-section of the rod Fig. 7.772. Therefore

$$\rho = \frac{m}{AL} \Rightarrow m = \rho AL = \text{mass of rod}$$
.

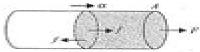


Fig. 7.772

The rod is moving with an acceleration α under the action of F

$$F = \rho A L \alpha$$
 (i)

Consider the half rod of length $\frac{L}{2}$. Let the force acting on the mid portion be f. Applying $F_{\text{net}} = ma$ for the dotted position

$$F - f = \frac{\rho AL}{2} \alpha$$
 (ii)

From equations (i) and (ii),

$$\rho AL\alpha - f = \rho A \frac{L}{2} \alpha \quad \Rightarrow f = \frac{\rho AL}{2} \alpha$$

 \Rightarrow Stress at mid point $\frac{f}{A} = \frac{\rho L \alpha}{2}$

B True or False

I. Fulse.

Concept: Friction force opposes the relative motion of the surfaces of contact. When a person walks on a rough surface, the foot is the surface of contact Fig. 7.773. When he pushes the foot backward, the motion of surface of contact is backward. Therefore, the frictional force will act forward (in the direction of motion of the person).

2. False

When the angular displacement is 20°, the mass is at extreme end (Fig. 7.774)



Fig. 7.773

$$T - mg \cos \theta = \frac{m \nu^2}{r}$$

At extreme end $\nu = 0$

$$T = mg \cos \theta$$

(00)

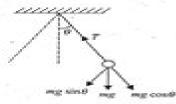


Fig. 7.774

3. Fadse

For mass m

$$T - mg = ma$$
 (i)

For mass 2m (Fig. 7.775)

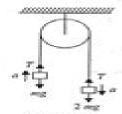


Fig. 7.775

$$2mg - T = 2ma$$

From equations (i) and (ii)

$$a = g/3$$

 $T - mg = ma'$
 $2mg - mg = ma'$

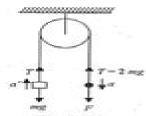


Fig. 7.770

Cengage Mechanics

Lei Huang



Cengage Mechanics Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has be much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Cengage Mechanics**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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