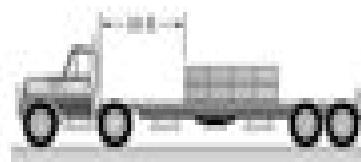
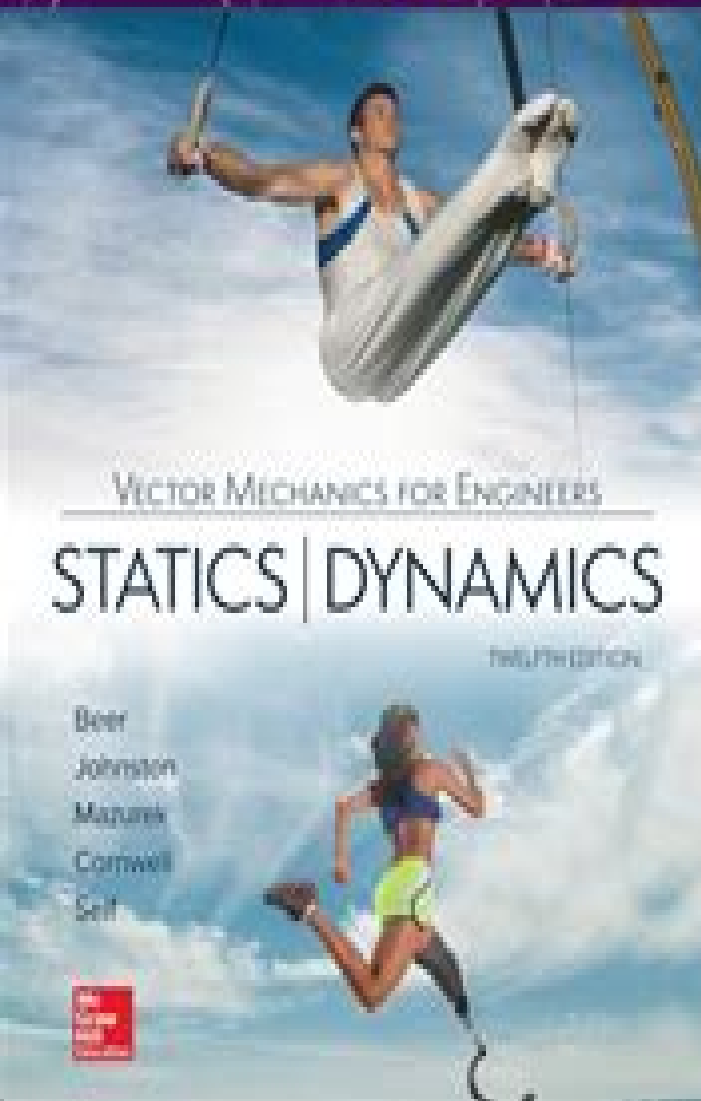


Vector Mechanics For Engineers

Dynamics (Solutions!!) Chapter-12



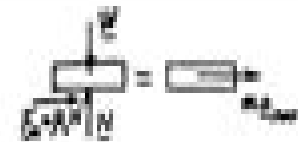
PROBLEM 12.11

The coefficients of friction between the load and the flat-bed trailer shown are $\mu_s = 0.40$ and $\mu_k = 0.30$. Knowing that the speed of the rig is 72 km/h, determine the shortest distance in which the rig can be brought to a stop if the load is not to shift.

SOLUTION

Load: We assume that sliding of load relative to trailer is impending:

$$\begin{aligned} F &= F_m \\ &= \mu_s N \end{aligned}$$



Deceleration of load is same as deceleration of trailer, which is the maximum allowable deceleration a_{max} :

$$\sum F_x = 0: N - W = 0 \quad N = W$$

$$F_m = \mu_s N = 0.40 W$$

$$\sum F_x = ma: F_m = ma_{max}$$

$$0.40 W = \frac{W}{g} a_{max} \quad a_{max} = 3.924 \text{ m/s}^2$$

$$a_{max} = 3.92 \text{ m/s}^2 \leftarrow$$

Uniformly accelerated motion

$$v^2 = v_0^2 + 2ax \quad \text{with} \quad v = 0$$

$$v_0 = 72 \text{ km/h} = 20 \text{ m/s}$$

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J Ma



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