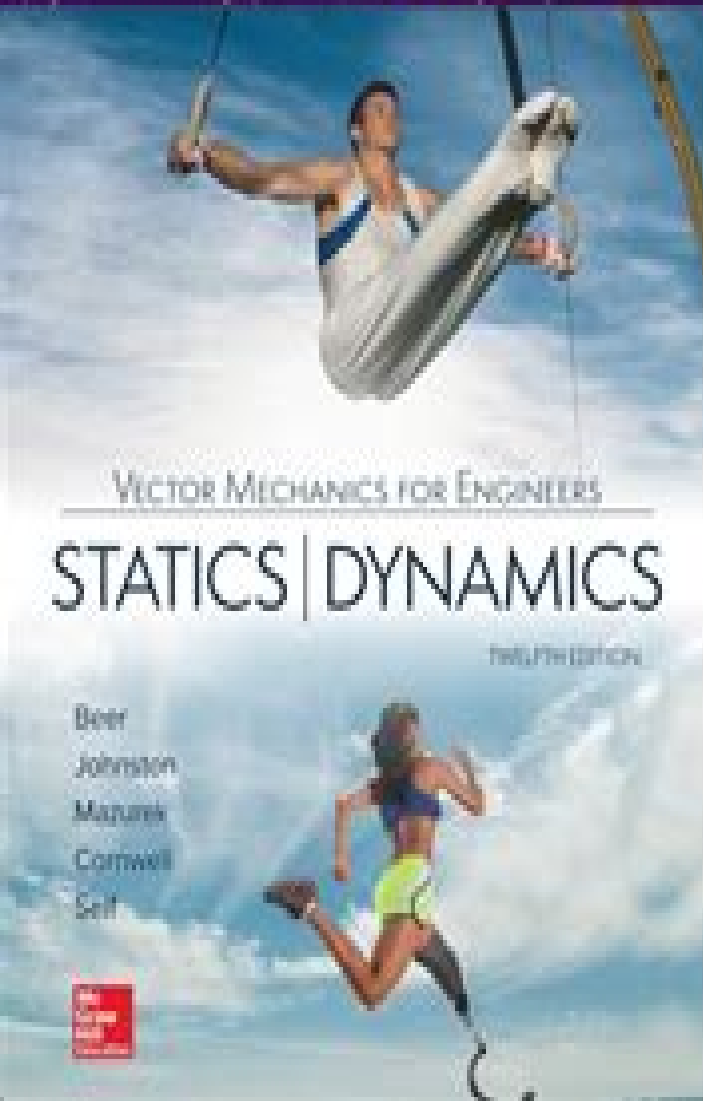


Vector Mechanics For Engineers

Dynamics (Solutions!!) Chapter-12



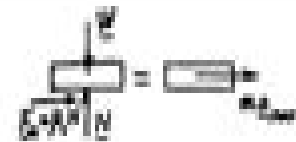
PROBLEM 12.11

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 Rink



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Government Reports Announcements & Index, 1978-03 Dissertation Abstracts International, 1986 Student

Solutions Manual for Thornton and Marion's Classical Dynamics of Particles and Systems Stephen T. Thornton, 2004 The Student Solutions Manual contains detailed solutions to 25 percent of the end of chapter problems as well as additional problem solving techniques Solutions Manual to Accompany Physics Philip Stehle, 1971 **Subject Index of Books**

Added 1894-1903 National Library of Ireland, 1911 Dynamics of Particles and Rigid Bodies Anil Rao, 2011-04-14
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