

c49915 Instructors Solution Manual

s0010 CHAPTER 1

c0010 1-1. (b). Toppling torque $T_a = F_a \times 1.2$

$$T_w = \text{Restoring torque} = W \times \frac{0.9}{2} = 686 \times 0.45$$

p0020 On the verge of toppling $T_a = T_w$

$$\begin{aligned} \therefore F_a &= \frac{686 \times 0.45}{1.2} = 254 \text{ N} \\ &= 57.8 \text{ lb} \end{aligned}$$

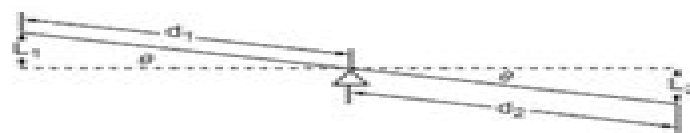
p0025 Note that this force is about 6 times greater than required to topple the person with feet together.

c0015 1-2. Referring to Fig. 1.10, and balancing torques around the fulcrum $W \times d_1 = F \times d_2$ or $F = W \frac{d_1}{d_2}$

$$\therefore \frac{W}{F} = \frac{d_2}{d_1}$$

p0035 Referring to Fig. E. 1.2

s0010



p0040 The magnitudes of the two angles of the lever arm with respect to the horizontal are equal therefore,

$$\begin{aligned} L_1 &= d_1 \sin \theta \quad L_2 = d_2 \sin \theta \\ \text{and} \quad \frac{L_1}{L_2} &= \frac{d_1}{d_2} \end{aligned}$$

Loudon Instructors Solution Manual

G. Marc Loudon, Joseph Stowell



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