

Holt Physics

Problem 8A**TORQUE****PROBLEM**

A beam that is hinged near one end can be lowered to stop traffic at a rail-road crossing or border checkpoint. Consider a beam with a mass of 12.0 kg that is partially balanced by a 20.0 kg counterweight. The counterweight is located 8.750 m from the beam's fulcrum. A downward force of 1.60×10^3 N applied over the counterweight causes the beam to move upward. If the net torque on the beam is 29.0 N•m when the beam makes an angle of 25.0° with respect to the ground, how long is the beam's longer section? Assume that the portion of the beam between the counterweight and fulcrum has no mass.

SOLUTION

G. GOTTWALD

Given:

$$\begin{aligned} m_1 &= 12.0 \text{ kg} \\ m_2 &= 20.0 \text{ kg} \\ d_2 &= 8.750 \text{ m} \\ F_{\text{applied}} &= 1.60 \times 10^3 \text{ N} \\ \tau_{\text{net}} &= 29.0 \text{ N}\cdot\text{m} \\ \theta &= 90.0^\circ - 25.0^\circ = 65.0^\circ \\ g &= 9.81 \text{ m/s}^2 \end{aligned}$$

Unknown:

$$d = ?$$

Diagram:



G. PLAN

Choose the sign(s) for all torques. Apply the definition of torque to each force and add up the individual torques.

$$\tau = F d \sin \theta$$

$$\tau_{\text{net}} = \tau_1 + \tau_2 + \tau_3$$

where τ_1 = counterclockwise torque produced by applied force = $F_{\text{applied}} d_2 \sin \theta$

τ_2 = clockwise torque produced by weight of beam

$$= -m_1 g \left(\frac{d}{2} \right) \sin \theta$$

τ_3 = counterclockwise torque produced by counterweight

$$= m_2 g d_2 \sin \theta$$

$$\tau_{\text{net}} = F_{\text{applied}} d_2 \sin \theta - m_1 g \left(\frac{d}{2} \right) \sin \theta + m_2 g d_2 \sin \theta$$

Note that the clockwise torque is negative, while the counterclockwise torques are positive.

Holt Physics Problem 8a Torque

**Holt Rinehart & Winston, Holt,
Rinehart and Winston Staff**



Holt Physics Problem 8a Torque:

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