

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 to allow the 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 1.40×10^3 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

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Given:

$$\begin{aligned} m_1 &= 12.0 \text{ kg} \\ m_2 &= 20.0 \text{ kg} \\ d_1 &= 8.750 \text{ m} \\ F_{\text{applied}} &= 1.40 \times 10^3 \text{ N} \\ \tau_{\text{net}} &= 29.0 \text{ N}\cdot\text{m} \\ \theta &= 90.0^\circ - 25.0^\circ = 65.0^\circ \\ g &= 9.80 \text{ m/s}^2 \end{aligned}$$

Unknown:

$$L = ?$$

Diagram:

**PLAN**

Choose the equilibrium situation. 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 = $F_{\text{applied}} d_1 (\sin \theta)$

τ_2 = clockwise torque produced by weight of beam

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

τ_3 = counterclockwise torque produced by counterweight

$$= m_2 g d_1 (\sin \theta)$$

$$\tau_{\text{net}} = F_{\text{applied}} d_1 (\sin \theta) - m_1 g \left(\frac{L}{2} \right) (\sin \theta) + m_2 g d_1 (\sin \theta)$$

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

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Hussin A.Rothana

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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