

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

8 - 027642

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.

Holt Physics Problem 8a Torque

DJ Losen



Holt Physics Problem 8a Torque:

Decoding **Holt Physics Problem 8a Torque**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Holt Physics Problem 8a Torque**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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