

Holt Physics

Problem 8C**NEWTON'S SECOND LAW FOR ROTATION****PROBLEM**

The giant sequoia General Sherman in California has a mass of about 2.00×10^6 kg, making it the most massive tree in the world. Its height of 83.0 m is also impressive. Imagine a uniform bar with the same mass and length as the tree. If this bar is rotated about an axis that is perpendicular to and passes through the bar's midpoint, how large an angular acceleration would result from a torque of 4.00×10^7 N·m? (Note: Assume the bar is thin.)

SOLUTION

Given: $M = 2.00 \times 10^6$ kg
 $L = 83.0$ m
 $\tau = 4.00 \times 10^7$ N·m

Unknown: $\alpha = ?$

Calculate the bar's moment of inertia using the formula for a thin rod with the axis of rotation at its center.

$$I = \frac{1}{12} ML^2 = \frac{1}{12} (2.00 \times 10^6 \text{ kg})(83.0 \text{ m})^2 = 1.15 \times 10^9 \text{ kg}\cdot\text{m}^2$$

Now use the equation for Newton's second law for rotating objects. Rearrange the equation to solve for angular acceleration.

$$\tau = I\alpha$$

$$\alpha = \frac{\tau}{I} = \frac{(4.00 \times 10^7 \text{ N}\cdot\text{m})}{(1.15 \times 10^9 \text{ kg}\cdot\text{m}^2)} = \boxed{4.00 \times 10^{-2} \text{ rad/s}^2}$$

ADDITIONAL PRACTICE

- One of the largest Ferris wheels currently in existence is in Yokohama, Japan. The wheel has a radius of 50.8 m and a mass of 1.20×10^6 kg. If a torque of 1.0×10^8 N·m is needed to turn the wheel from a state of rest, what would the wheel's angular acceleration be? Treat the wheel as a thin hoop.
- In 1992, Jacky Vrancken from Belgium attained a speed of more than 250 km/h on just the back wheel of a motorcycle. Assume that all of the back wheel's mass is located at its outer edge. If the wheel has a mass of 22 kg and a radius of 0.36 m, what is the wheel's angular acceleration when a torque of 5.7 N·m acts on the wheel?
- In 1995, a fully functional pencil with a mass of 24 kg and a length of 2.74 m was made. Suppose this pencil is suspended at its midpoint and a force of 1.8 N is applied perpendicular to its end, causing it to rotate. What is the angular acceleration of the pencil?

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