Holt Physics

Problem 8C

NEWTON'S SECOND LAW FOR ROTATION

PROBLEM

The giant sequeta General Sherman in California has a mass of about 2.00 \times 10° 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 4.60 \times 10° Nort: Assume the bar is thin.)

SOLUTION

Gilbrens $3.06 \times 10^{9} \log$

J' = 8.3.9 cm

 $r \approx 4.60 \times 10^7$ Nem

Undersome acres 2

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

$$I = \tfrac{1}{12} \, \mathrm{Ad} \, Z^2 = \tfrac{1}{12} \, (2.09 \times 10^9 \, \mathrm{kg}) (83.0 \, \mathrm{m})^2 = 1.15 \times 10^9 \, \mathrm{kg cm}^2$$

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

$$x = \lambda c \epsilon$$

$$mr = \frac{e}{l} = \frac{(4.60 \times 10^{7} \text{ Nem})}{(1.35 \times 10^{9} \text{ kg/m}^{2})} = \frac{4.00 \times 10^{10} \text{ mad/s}^{2}}{4.00 \times 10^{10} \text{ mad/s}^{2}}$$

ADDITIONAL PRACTICE

- 1. One of the largest Perris wheels currently in existence is in Yokohama. Japan. The wheel has a radius of 50.0 m and a mass of 1.20 × 10° kg. If a targue of 1.0 × 10° 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 third boop.
- 2. In 1992, Jacky Vranker from Belgium attained a speed of more than 250 km/h on just the back wheel of a rantoccycle. 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?
- 3. 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 1.6 N is applied perpendicular to its end, causing it to retate. What is the angular acceleration of the pencil?

19:15

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Ying Liu

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