

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?

Holt Problems Work Solutions Manual

Padhraic Smyth



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Table of Contents Holt Problems Work Solutions Manual

1. Understanding the eBook Holt Problems Work Solutions Manual
 - The Rise of Digital Reading Holt Problems Work Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Problems Work Solutions Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Holt Problems Work Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Problems Work Solutions Manual
 - Personalized Recommendations
 - Holt Problems Work Solutions Manual User Reviews and Ratings
 - Holt Problems Work Solutions Manual and Bestseller Lists
5. Accessing Holt Problems Work Solutions Manual Free and Paid eBooks
 - Holt Problems Work Solutions Manual Public Domain eBooks
 - Holt Problems Work Solutions Manual eBook Subscription Services
 - Holt Problems Work Solutions Manual Budget-Friendly Options
6. Navigating Holt Problems Work Solutions Manual eBook Formats

- ePub, PDF, MOBI, and More
- Holt Problems Work Solutions Manual Compatibility with Devices
- Holt Problems Work Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Problems Work Solutions Manual
 - Highlighting and Note-Taking Holt Problems Work Solutions Manual
 - Interactive Elements Holt Problems Work Solutions Manual
- 8. Staying Engaged with Holt Problems Work Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Problems Work Solutions Manual
- 9. Balancing eBooks and Physical Books Holt Problems Work Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Problems Work Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Holt Problems Work Solutions Manual
 - Setting Reading Goals Holt Problems Work Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Holt Problems Work Solutions Manual
 - Fact-Checking eBook Content of Holt Problems Work Solutions Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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