

Chapter 8 Study Guide Rotational Motion Answers

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Physics Chapter 8 Study Guide Rotational Motion. STUDY. Flashcards. Learn. Write. Spell. Test. PLAY. Match. Gravity. Created by. Sjoseph_ Terms in this set (26) Newton's 2nd law for rotational motion. Angular acceleration is directly proportional to the net torque and inversely proportional to the moment of inertia is a statement of _____

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Chapter 8 Rotational Motion 8.1 Purpose In this experiment, rotational motion will be examined. Angular kinematic variables, angular momentum, Newton's 2nd law for rotational motion, torque, and moments of inertia will be explored. 8.2 Introduction Note: For this experiment, you will write a complete (formal) lab report and

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Chapter 8 Rotational Motion Review Questions Circular Motion 1. What is meant by tangential speed? 2. Distinguish between tangential speed and rotational speed. Tangential speed is as stated in the previous answer, while rotational speed is the number of rotations per unit of time.

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8.8: Conceptual Example 2 provides some relevant background for this pro... 8.9: A Ferris wheel rotates at an angular velocity of 0.24 rad/s. Starti... 8.10: A floor polisher has a rotating disk that has a 15-cm radius. The ... 8.11: The sun appears to move across the sky, because the earth spins on ...

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7.8 Sources of Energy; Chapter 8: Rotational Motion. 8.1 Circular Motion; 8.2 Rotational Inertia; 8.3 Torque; 8.4 Center of Mass and Center of Gravity; 8.5 Centripetal Force; 8.6 Centrifugal Force; 8.7 Angular Momentum; 8.8 Conservation of Angular Momentum; Chapter 9: Gravity. 9.1 The Universal Law of Gravity; 9.2 The Universal Gravitational ...

8.1 Circular Motion | Conceptual Academy

rotational state of motion of an object. 1. The greater mass on an object, the _____ the rotational inertia. 2. With rotation on an object, the greater the distance between the axis and the bulk of the mass, the _____ rotational inertia. 3. A solid cylinder rolls down an incline _____ than a hollow one, of the same mass and diameter. 4.

Circular Motion Study Guide

Centripetal*Acceleration*and*Tangential*Acceleration $a_c = r\omega^2 = (0.810 \text{ m})(15.0 \text{ rads})^2 = 182 \text{ ms}^{-2}$ $a_T = r\alpha = (0.810 \text{ m}) 15.0 \text{ rads} \cdot 0.270 \text{ s}^{-2} = 45.0 \text{ ms}^{-2}$ $a = \sqrt{a_c^2 + a_T^2} = \sqrt{(182 \text{ ms}^{-2})^2 + (45.0 \text{ ms}^{-2})^2} = 187 \text{ ms}^{-2}$ $\theta = \tan^{-1}(a_T/a_c) = \tan^{-1}(45.0)/(182) = 13.9^\circ$

Chapter(8

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