

## Chapter 8 Supplemental Problems Rotational Motion Answers

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Chapter 8 Supplemental Problems Rotational Motion Answers PDF Chapter 8-Rotational Motion - University of Regina Rotational Dynamics: Torque Equation 8-25 is the rotational equivalent of Newton's 2nd law for linear motion Here, the moment of inertia  $I$  plays the same role as the

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axis of rotation. The student's moment of inertia is 5.0 kg·m<sup>2</sup>. What is the moment of inertia of the student and the dumbbells? 1 single dumbbell!  $m r^2!$  (5.0 kg)(0.60 m)<sup>2</sup>! 1.8 kg·m<sup>2</sup>! total!  $2!$  single dumbbell! & 1 student!  $(2)(1.8 \text{ kg} \cdot \text{m}^2) + 5.0 \text{ kg} \cdot \text{m}^2!$  8.6 kg·m<sup>2</sup> 11. A basketball player spins a basketball with a radius of 15 cm on his finger. The mass of

CHAPTER 8 Rotational Motion - Foothill High School  
DF025 CHAPTER 8 8.1 Rotational kinematics a) (i) Angular displacement,  $\theta$  is defined as an angle through which a point or line has been rotated in a specified direction about a specified axis.  $\theta$  The S.I. unit of the angular displacement is radian (rad).  $\theta$  Figure 7.1 shows a point P on a rotating compact disc (CD) moves through an arc length  $s$  on a circular path of radius  $r$  about a fixed axis through point O. Figure 7.1 4

Physics Chapter 8- Rotational of a Rigid Body

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Chapter 8 Problem Solutions Giancoli.nb 3 A person stands, hands at his side, on a platform that is rotating at a rate of 1.3 rev/s If he raises his arms to a horizon- tal position as in figure 8-48 below, the speed of rotation decreases to 0.80 rev/s.

Chapter 8 Problem Solutions Giancoli

Summary of Chapter 10, cont.  $\theta$  The equations for rotational motion with constant angular acceleration have the same form as those for linear motion with constant acceleration.  $\tau$  Torque is the product of force and lever arm.  $I$  The rotational inertia depends not only on the mass of an object but also on the way its mass is

Chapter 10 Rotational Motion - University of Virginia

8. Convert the speed 5.30 m/s to km/h. 5.3 1 0 5 m 1 6 m 0s in 60 1 m h in 1 1 00 k 0 m m 19.08 km/h page 8 Solve the following problems. 9. a. 6.201 cm 7.4 cm 0.68 cm 12.0 cm 6.201 cm 7.4 cm 0.68 cm 12.0 cm 26.281 cm 26.3 cm after rounding b. 1.6 km 1.62 m 1200 cm 1.6 km 1600 m 1.62 m 1.62 m 1200 cm 12 m 1613.62 m 1600 m or 1.6 km after ...

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Physics: Principles and Problems Supplemental Problems Answer Key 69 6. An antelope can run 90.0 km/h. A cheetah can run 117 km/h for short distances. The cheetah, however, can maintain this speed only for 30.0 s before giving up the chase.