

## CHAPTER 8

## STUDY GUIDE

## ROTATIONAL MOTION

## Vocabulary Review

Write the term that correctly completes the statement. Use each term once.

angular acceleration  
angular displacement  
angular velocity  
center of mass

centrifugal "force"  
Coriolis "force"  
lever arm  
moment of inertia

Newton's second law for  
rotational motion  
radian  
torque

1. \_\_\_\_\_ Angular acceleration is directly proportional to the net torque and inversely proportional to the moment of inertia is a statement of \_\_\_\_\_.
2. \_\_\_\_\_ As an object rotates, the change in angle is called \_\_\_\_\_.
3. \_\_\_\_\_ The \_\_\_\_\_ of a rotating object can be calculated by dividing its angular displacement by the time it takes for the displacement to occur.
4. \_\_\_\_\_ The \_\_\_\_\_ of an object is the point on the object that moves in the same way that a point particle would move.
5. \_\_\_\_\_ The \_\_\_\_\_ is the resistance to rotation.
6. \_\_\_\_\_ One \_\_\_\_\_ is equal to approximately  $57.3^\circ$ .
7. \_\_\_\_\_ The apparent force that seems to pull an object on a spinning platform toward the outside of the platform is called the \_\_\_\_\_.
8. \_\_\_\_\_ The result of dividing the change in angular velocity by the time it takes to make the change is \_\_\_\_\_.
9. \_\_\_\_\_ \_\_\_\_\_ is the measure of how effectively a force causes rotation.
10. \_\_\_\_\_ When a force is exerted on a rotating object, the change in angular velocity depends on the \_\_\_\_\_, which is the perpendicular distance from the axis of rotation to the point where the force is exerted.
11. \_\_\_\_\_ When the horizontal motion of an object in a rotating frame of reference seems to deflect, the apparent force is the \_\_\_\_\_.

# Study Guide Rotational Motion Answers

**Paul Chambers, Mark Ramsay**



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