

## 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

**Douglas Brandt, Keith Andrew, Leonard  
E. Storm**



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Questions Chapter 28 Rotational Motion Questions Chapter 29 Second Law of Thermodynamics Questions Chapter 30 Simple Harmonic Motion Questions Chapter 31 Special Relativity Questions Chapter 32 Straight Line Motion Questions Chapter 33 Transverse Waves Questions Chapter 34 Two and Three Dimensional Motion Questions Chapter 35 Vector Quantities Questions Chapter 36 Work Kinetic Energy Theorem Questions The Alternating Fields and Currents Quiz Questions PDF e Book Chapter 1 interview questions and answers on Alternating current damped oscillations in an RLS circuit electrical mechanical analog forced and free oscillations LC oscillations phase relations for alternating currents and voltages power in alternating current circuits transformers The Astronomical Data Quiz Questions PDF e Book Chapter 2 interview questions and answers on Aphelion distance from earth eccentricity of orbit equatorial diameter of planets escape velocity of planets gravitational acceleration of planets inclination of orbit to earth s orbit inclination of planet axis to orbit mean distance from sun to planets moons of planets orbital speed of planets perihelion period of rotation of planets planet densities planets masses sun earth and moon The Capacitors and Capacitance Quiz Questions PDF e Book Chapter 3 interview questions and answers on Capacitor in parallel and in series capacitor with dielectric charging a capacitor cylindrical capacitor parallel plate capacitor The Circuit Theory Quiz Questions PDF e Book Chapter 4 interview questions and answers on Loop and junction rule power series and parallel resistances single loop circuits work energy and EMF The Conservation of Energy Quiz Questions PDF e Book Chapter 5 interview questions and answers on Center of mass and momentum collision and impulse collisions in one dimension conservation of linear momentum conservation of mechanical energy linear momentum and Newton s second law momentum and kinetic energy in collisions Newton s second law for a system of particles path independence of conservative forces work and potential energy The Coulomb s Law Quiz Questions PDF e Book Chapter 6 interview questions and answers on Charge is conserved charge is quantized conductors and insulators and electric charge The Current Produced Magnetic Field Quiz Questions PDF e Book Chapter 7 interview questions and answers on Ampere s law and law of Biot Savart The Electric Potential Energy Quiz Questions PDF e Book Chapter 8 interview questions and answers on Introduction to electric potential energy electric potential and equipotential surfaces The Equilibrium Indeterminate Structures Quiz Questions PDF e Book Chapter 9 interview questions and answers on Center of gravity density of selected materials of engineering interest elasticity equilibrium indeterminate structures ultimate and yield strength of selected materials of engineering interest and Young s modulus of selected materials of engineering interest The Finding Electric Field Quiz Questions PDF e Book Chapter 10 interview questions and answers on Electric field electric field due to continuous charge distribution electric field lines flux and Gauss law The First Law of Thermodynamics Quiz Questions PDF e Book Chapter 11 interview questions and answers on Absorption of heat by solids and liquids Celsius and Fahrenheit scales coefficients of thermal expansion first law of thermodynamics heat of fusion of common substances heat of transformation heat of vaporization of common substances introduction to thermodynamics molar specific heat substance specific heat in

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## **Table of Contents Study Guide Rotational Motion Answers**

1. Understanding the eBook Study Guide Rotational Motion Answers
  - The Rise of Digital Reading Study Guide Rotational Motion Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Rotational Motion Answers
  - 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 Study Guide Rotational Motion Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Rotational Motion Answers
  - Personalized Recommendations
  - Study Guide Rotational Motion Answers User Reviews and Ratings
  - Study Guide Rotational Motion Answers and Bestseller Lists
5. Accessing Study Guide Rotational Motion Answers Free and Paid eBooks
  - Study Guide Rotational Motion Answers Public Domain eBooks
  - Study Guide Rotational Motion Answers eBook Subscription Services
  - Study Guide Rotational Motion Answers Budget-Friendly Options
6. Navigating Study Guide Rotational Motion Answers eBook Formats

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