

Rotational Motion Examples, including centripetal force

How many degrees is 3 radians?

$$\frac{3 \text{ rad}}{1} \left(\frac{360^\circ}{2\pi \text{ rad}} \right) = 172^\circ$$

A person spins a 1.5 kg ball around their head on a rope. If the person is spinning the bucket clockwise

A) Find it's angular velocity it spins around 75 times in 1 minute?

$$\omega = \frac{\Delta\theta}{t} \quad \theta = 75 \text{ times} \left(\frac{2\pi}{1 \text{ rev}} \right) = \frac{471 \text{ rad}}{60 \text{ sec}} = -7.85 \text{ rad/sec}$$

neg. because moving clockwise

B) If the person has to hold onto the rope with $\frac{F_c}{235 \text{ N}}$ of friction, how much rope is there between the person and the ball?

$$F_c = m r \omega^2 \quad r = \frac{F_c}{m \omega^2} = \frac{235}{(1.5)(7.85)^2} =$$

Friction gives the centripetal force to hold onto the rope.

C) What is the speed of the ball at the end of the rope?
 "at the end" means "at the radius" which is tangential.

$$v_t = r \omega = 2.54(-7.85) = -20 \text{ m/s}$$

D) If the person starts to pull harder and harder until they are pulling with 410 N after 20 seconds, what is the angular acceleration of the ball (the rope does not get longer)?

Use $F_c = m r \omega^2$ to find the ω_f , then use a kinematic to find α .

$$410 = 1.5(2.54)(\omega)^2$$

$$\omega_f = \sqrt{\frac{410}{1.5(2.54)}} = -10.4 \text{ rad/sec}$$

not linear:
 $v_f = v_i + a t$

convert to angular:

$$\frac{v_f - v_i}{t} = a = \alpha = \frac{\omega_f - \omega_i}{t} = \frac{-10.4 - (-7.85)}{20 \text{ sec}}$$

$$\alpha = -0.128 \text{ rad/sec}^2$$

Cstephenmurray Answers Rotational Motion

Effrosyni Seitaridou, Alfred C. K. Farris



CStephenmurray Answers Rotational Motion:

Rotational Motion and Angular Momentum The Open The Open Courses Library,2019-12-05 Rotational Motion and Angular Momentum College Physics Why do tornadoes spin at all And why do tornados spin so rapidly The answer is that air masses that produce tornadoes are themselves rotating and when the radii of the air masses decrease their rate of rotation increases An ice skater increases her spin in an exactly analogous manner The skater starts her rotation with outstretched limbs and increases her spin by pulling them in toward her body The same physics describes the exhilarating spin of a skater and the wrenching force of a tornado Clearly force energy and power are associated with rotational motion These and other aspects of rotational motion are covered in this book Chapter Outline Introduction to Rotational Motion and Angular Momentum Angular Acceleration Kinematics of Rotational Motion Dynamics of Rotational Motion Rotational Inertia Rotational Kinetic Energy Work and Energy Revisited Angular Momentum and Its Conservation Collisions of Extended Bodies in Two Dimensions Gyroscopic Effects Vector Aspects of Angular Momentum The Open Courses Library introduces you to the best Open Source Courses **Forces of Nature** Tom Tong,2001-06-24 Forces of Nature gives a new and comprehensive perspective of how nature was formed With a radically new idea the author opens up a whole new dimension by looking at the mechanical principles of the universe Through his years of research he has found that rotational mechanics have been able to explain the complexities of the different systems working under different conditions From the infinitesimal to the astronomically large bodies he summarizes it with five states of rotation The first state of rotation states that a particle s tangential velocity will increase proportionally with the radius from the center of the system It follows that the particle s tangential velocity will decrease after a certain point in the second state The third state describes that a particle s tangential velocity is inversely proportional to the radius of the system The fourth and fifth states are extensions when a particle is subjected to rotation and translation simultaneously parallel or perpendicular towards the direction of the motion respectively In the absence of an internal force the particle will continue to translate and rotate in the same direction with reference to the original system unless an external force is applied **A Student's Guide to Rotational Motion** Effrosyni Seitaridou,Alfred C. K. Farris,2023-08-03 A compact and accessible guide to the principles of rotational dynamics supported by step by examples and exercises **Dynamics of Rotation** Arthur Mason Worthington,1900 *Rotation 101* Valeri Vankov,2021-10-16 If you struggle with the rotation problems from advanced physics courses in high school or college or are simply interested to learn about the basics of rotation this book is right for you Based on the experience of a student who self taught for the AP Physics Mechanics exam and written just to the point with depth of connections theoretical rigor and clarity that a lot of other textbooks do not have the guide draws out parallels between linear and rotational motion and expands on the specifics of rotational mechanics Each concept and equation is presented in great detail and is supported by carefully selected examples that are followed by comprehensive solutions The explanations are nicely written and easy to follow This

book will not only help you understand the basics of rotation but it will also encourage you to further appreciate the underlying creativity of more complex problems in mechanics

Rotational Motion, 2015 Turn your attention to rotational motion Rotational analogs of acceleration force and mass obey a law related to Newton's second law This leads to the concept of angular momentum and the all important conservation of angular momentum which explains some surprising and seemingly counterintuitive phenomena involving rotating objects

300 Solved Problems on Rotational Mechanics Shraddhesh Chaturvedi, Jitender Singh, 2019-05-23 The Rotational Mechanics problems present in this book bring forth the subtle points of theory consequently developing a full understanding of the topic They are invaluable resource for any serious student of Physics Features Focus on building concepts through problem solving MCQ's with single correct and multiple correct options Questions arranged according to complexity level Completely solved objective problems The solutions reveals all the critical points Promotes self learning Can be used as a readily available mentor for solutions This book provides 300 objective type questions and their solutions These questions improve your problem solving skills test your conceptual understanding and help you in exam preparation The book also covers relevant concepts in brief These are enough to solve problems given in this book If a student seriously attempts all the problems in this book he/she will naturally develop the ability to analyze and solve complex problems in a simple and logical manner using a few well understood principles Topics Kinematics of Rotational Motion Moment of Inertia Angular Momentum Torque Rolling Without Slipping Collision of Rigid Bodies Dynamics of Rigid Bodies Authors Jitender Singh is working as a Scientist in DRDO He has a strong academic background with Integrated M Sc 5 years in Physics from IIT Kanpur and M Tech in Computational Science from IISc Bangalore He is All India Rank 1 holder in GATE and loves to solve physics problems Shraddhesh Chaturvedi holds a degree in Integrated M Sc 5 years in Physics from IIT Kanpur He is passionate about problem solving in physics and enhancing the quality of texts available to Indian students His career spans many industries where he has contributed with his knowledge of physics and mathematics An avid reader and keen thinker his philosophical writings are a joy to read

Outlines of a New Theory of Rotatory Motion Louis Poinso, 1834 *Rotational Motion* Phillip Glen Edwards, 1975 Text Book Of Rotational Mechanics D.K. Jha, 2005 This book Text book of Rotational Mechanics cover the syllabi of B Sc Pass Honours and engineering students of various universities in India The mathematical description of the book is based on the vector analysis provided an efficient short hand for writing physics and at the same time makes it possible to visualise the physical meaning of concepts and laws distinctly and exactly Hence the vector treatment becomes necessary The emphasis is on the basic physics with some instructive stimulative and useful applications Contents Dynamics of Rigid Bodies Gravitation Fields and Potentials Inverse Square Law Forces Fundamental Lengths and Numbers Bending of Beams Columns

Some Aspects of Rotational Motion Aage Bohr, 1977 **Rotational Motion at Low Reynolds Number** Stuart James Box, 2016

Rotational Motion Martin Cooper, 1988 **Unit 20** Open University. MST209 Course Team, OU Course Team, 2005-01

The theme of this unit is rotational motion. It concentrates mainly on analysing the circular motion of a particle. This can be used to model a wide range of situations such as a child on a swing, the pendulum of a clock and a chair on a roundabout at a fairground. In Section 1 we derive the velocity and acceleration of a particle moving in a circle. In Section 2 we apply Newton's second law to uniform circular motion, i.e. motion in a circle with constant speed. In Section 3 this is extended to non-uniform circular motion. Section 4 starts to look beyond circular motion to the concepts that are needed to analyse more general rotational motion.

Rotational Dynamics Don McGillivray, 1984

The Coordinate-Free Representation of Rotational Motions R. J. A. Tough, ROYAL SIGNALS AND RADAR ESTABLISHMENT MALVERN (Great Britain), Royal Signals and Radar Establishment, 1991. The rotation of a rigid body may be represented by a unit axis and the angle of rotation about that axis. Here we investigate the representation in this form of the rotation equivalent to two successive rotations and derive equations of motion of the body in terms of its angular velocity. The relationship of our results to those of the quantum theory of angular momentum is also discussed with particular reference to the Baker-Campbell-Hansdorff expansion.

A Treatise on the Rectilinear Motion and Rotation of Bodies George Atwood, 1784

Wheels in the Sky Komzsik Louis Komzsik, Louis Komzsik, 2010-04. If you have ever wondered how the universe physically works then this book focusing on the central role that rotational motion plays in our daily lives will lead you to new discoveries, knowledge and wisdom. Rotation is found everywhere but often overlooked. There are rotating wheels on cars, wheels that spin in games of chance, Ferris wheels at city carnivals and other manifestations of rotation that play an essential role in virtually everything we do. Even more important is how everyday phenomena driven by rotation make up life's intrinsic components. Supported by historical information about the lives of individuals who have contributed to the understanding of rotation, this book delves into the physical principles that explain hurricanes, trade winds, gravity measurements and much more. Rotation continues to play a large role in the world and it's possible that the universe itself rotates. Take a journey defined by new ideas and little-known facts in *Wheels in the Sky*, a must-read for anyone interested in the origin and workings of the universe.

ESR Studies of Rotational Motion R. E. Travis, Chemistry, 1982

The Representation of Rotational Motion Sarah Jean Storbeck, 2003

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