

Solutions to: [Elder] Angular Momentum Practice

1.

IDENTIFY: Apply conservation of angular momentum.

SET UP: For a uniform sphere and an axis through its center, $I = \frac{2}{5}MR^2$.

EXECUTE: The moment of inertia is proportional to the square of the radius, and so the angular velocity will be proportional to the inverse of the square of the radius, and the final angular velocity is

$$\omega_2 = \omega_1 \left(\frac{R_1}{R_2} \right)^2 = \left(\frac{2\pi \text{ rad}}{(30 \text{ d})(86,400 \text{ s/d})} \right) \left(\frac{7.0 \times 10^5 \text{ km}}{16 \text{ km}} \right)^2 = 4.6 \times 10^4 \text{ rad/s.}$$

EVALUATE: $K = \frac{1}{2}I\omega^2 = \frac{1}{2}L\omega$. L is constant and ω increases by a large factor, so there is a large increase in the rotational kinetic energy of the star. This energy comes from potential energy associated with the gravity force within the star.

2.

IDENTIFY: Apply conservation of angular momentum to the motion of the skater.

SET UP: For a thin-walled hollow cylinder $I = mR^2$. For a slender rod rotating about an axis through its center, $I = \frac{1}{12}ml^2$.

EXECUTE: $L_i = L_f$ so $I_i\omega_i = I_f\omega_f$.

$$I_i = 0.40 \text{ kg} \cdot \text{m}^2 + \frac{1}{12}(8.0 \text{ kg})(1.8 \text{ m})^2 = 2.56 \text{ kg} \cdot \text{m}^2. \quad I_f = 0.40 \text{ kg} \cdot \text{m}^2 + (8.0 \text{ kg})(0.25 \text{ m})^2 = 0.90 \text{ kg} \cdot \text{m}^2.$$

$$\omega_f = \left(\frac{I_i}{I_f} \right) \omega_i = \left(\frac{2.56 \text{ kg} \cdot \text{m}^2}{0.90 \text{ kg} \cdot \text{m}^2} \right) (0.40 \text{ rev/s}) = 1.14 \text{ rev/s.}$$

EVALUATE: $K = \frac{1}{2}I\omega^2 = \frac{1}{2}L\omega$. ω increases and L is constant, so K increases. The increase in kinetic energy comes from the work done by the skater when he pulls in his hands.

3.

IDENTIFY: Apply conservation of angular momentum to the system of earth plus asteroid.

SET UP: Take the axis to be the earth's rotation axis. The asteroid may be treated as a point mass and it has zero angular momentum before the collision, since it is headed toward the center of the earth. For the earth, $L_e = I\omega_e$ and $I = \frac{2}{5}MR^2$, where M is the mass of the earth and R is its radius. The length of a day is

$$T = \frac{2\pi \text{ rad}}{\omega_e}, \text{ where } \omega_e \text{ is the earth's angular rotation rate.}$$

EXECUTE: Conservation of angular momentum applied to the collision between the earth and asteroid

$$\text{gives } \frac{2}{5}MR^2\omega_e = (mR^2 + \frac{2}{5}MR^2)\omega_2 \text{ and } m = \frac{2}{5}M \left(\frac{\omega_e - \omega_2}{\omega_2} \right). \quad T_2 = 1.250T_1 \text{ gives } \frac{1}{\omega_2} = \frac{1.250}{\omega_1} \text{ and}$$

$$\omega_1 = 1.250\omega_2, \quad \frac{\omega_e - \omega_2}{\omega_2} = 0.250. \quad m = \frac{2}{5}(0.250)M = 0.100M.$$

EVALUATE: If the asteroid hit the surface of the earth tangentially it could have some angular momentum with respect to the earth's rotation axis, and could either speed up or slow down the earth's rotation rate.

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Sanjay Nair



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process has been developed to record mechanical and structural properties of the rock mass. The method enables data for a wide range ... Geotechnical Core Logging To collect accurate, high-quality data from drill core, geotechnical logging requires knowledge of industry-standard logging techniques. RockEng routinely log ... THE BASICS OF LOGGING CORE FOR EXPLORATION Logging core samples is an essential part of mineral exploration as it helps geologists and mining engineers determine the size, shape, and mineral composition ... Core logging: Optimizing best practice (Part One). We must not forget that geotechnical core logging comprises the main data source for rock mass characterization which is later converted ... A guide to core logging for rock engineering - RockMass 4.4 Core Logging. Only persons trained and experienced in engineering geology or geotechnical engineering should be allowed to log borehole core. It is ... Core Logging - an overview Core logging is the geological study and recording of drill cores. Records are made on printed sheets (Table 7.2). This covers a general description of the core ... Core Logging and Geotech Our geologists have significant core logging experience with a wide variety of deposit types. We collect the geotechnical data our clients need, ranging from a ... Core Logging Software Developed by and for geologists, CoreCAD™ core logging software improves productivity by allowing direct input of core descriptions into a digital interface. Semiconductor Physics and Devices Page 1. Page 2. Semiconductor Physics and Devices. Basic Principles. Fourth Edition ... 4th edition, and An Introduction to Semiconductor Devices. Page 5. iv. Semiconductor Physics And Devices: Basic Principles Book details · ISBN-10. 0073529583 · ISBN-13. 978-0073529585 · Edition. 4th · Publisher. McGraw-Hill · Publication date. January 18, 2011 · Language. English. Semiconductor Physics And Devices Get the 4e of Semiconductor Physics And Devices by Donald Neamen Textbook, eBook, and other options. ISBN 9780073529585. Copyright 2012. Semiconductor Physics And Devices Semiconductor Physics And Devices. 4th Edition. 0073529583 · 9780073529585. By Donald A. Neamen. © 2012 | Published: January 18, 2011. With its strong ... Semiconductor Physics and Devices Semiconductor Physics & Devices : Basic Principles (4th Edition). Donald A. Neamen. 4.3 out ... Semiconductor Physics and Devices: Basic Principles Semiconductor Physics and Devices: Basic Principles by Donald A. Neamen - ISBN 10 ... 4th edition" provides a basis for understanding the characteristics ... Physics of Semiconductor Devices, 4th Edition This fully updated and expanded edition includes approximately 1,000 references to original research papers and review articles, more than 650 high-quality ... Semiconductor physics and devices 4th edition (Neamen ... By far the best book on applied physics (semiconductor physics) I've ever seen in my entire life. Semiconductor Physics And Devices: Basic Principles Semiconductor Physics And Devices: Basic Principles (4th International Edition). Donald A. Neamen. Published by McGraw-Hill (2011). ISBN 10: 0073529583 ... Semiconductor Physics And Devices 4th edition Semiconductor Physics And Devices 4th Edition is written by Neamen, Donald and published by McGraw-Hill Higher Education. The Digital and eTextbook ISBNs ... SAMHSA's National Helpline Jun 9, 2023 — Created for family members of people with alcohol abuse or drug abuse problems. Answers questions about substance abuse, its symptoms, different ... You Too Can Stop Drinking by Patten, George

Zeboim Publisher, Exposition Pr of Florida; First Edition (January 1, 1977). Language, English. Hardcover, 256 pages. ISBN-10, 0682487333. How to Stop Drinking: Making a Plan That Works for You Jun 7, 2023 — There's really no right or wrong way to quit drinking, but these strategies can get you started on a solid path. 11 ways to curb your drinking - Harvard Health May 15, 2022 — These tips will help you curb your drinking. Cut back on drinking alcohol with a drinking diary and stress relief skills. How to stop drinking alcohol completely One in seven (14%) adults in the UK never drink alcohol, and more than half of them (52%) say they did previously drink.¹ This guide has lots of practical tips ... How to Stop Drinking: Benefits of Quitting Alcohol A sober life has a many benefits, including improved physical and mental health. Quitting alcohol is a process, and it requires intentional strategies to ... Watch this if you're ready to STOP DRINKING. Quitting alcohol can be a lot easier than you think. In fact, you can do it in one day, just like I did almost six months ago and like ... 8 Benefits That Happen When You Stop Drinking Feb 7, 2023 — When you stop drinking alcohol, your physical and mental health improve. Better sleep, concentration, and weight loss are just the ... 16 Expert Tips For Reducing Your Alcohol Consumption Jun 29, 2023 — Drinking too much alcohol can lead to serious health problems. Forbes Health provides 16 tips for reducing alcohol consumption in this ... How can you reduce or quit alcohol? Jul 20, 2023 — It's a good idea to see your doctor first if you want to quit or stop drinking alcohol. They can help you to manage any withdrawal symptoms ...