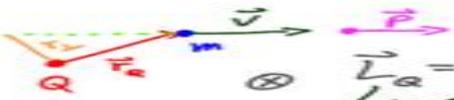


Agenda

1. Angular Momentum

Assignments

1. Video: Angular Momentum 12/2
2. Video: Cons. Angular Momentum 12/3
3. WA-Rotational Motion due 12/5
4. Rotation Exam 12/5



$$\vec{L}_Q = \vec{r}_Q \times \vec{p} = (\vec{r}_Q \times \vec{v})m$$

\vec{L} Angular Momentum About Q

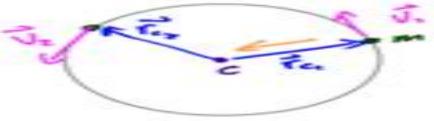
$$|\vec{L}_Q| = r_Q v m \sin\theta = m v r_Q \sin\theta = m v r_{\perp}$$

Angular Momentum depends on your point of origin



@ t=0: $\vec{L}_c = \vec{r} \times \vec{p} \stackrel{\vec{r}=0}{=} \vec{0}$
 @ t=t: $\vec{L}_c \neq 0$ $\vec{L}_c = (\vec{r} \times \vec{v})m$

Earth Orbiting Sun



$$\vec{L}_c = \vec{r}_c \times \vec{p} = (\vec{r}_c \times \vec{v})m$$

$$|\vec{L}_c| = m v r \sin\theta = m v r$$

\vec{L}_c is conserved ONLY about Point C

$$\vec{L}_A = \vec{r}_A \times \vec{p} \quad \frac{d}{dt}(\vec{A} \times \vec{B}) = \frac{d\vec{A}}{dt} \times \vec{B} + \vec{A} \times \frac{d\vec{B}}{dt}$$

$$\frac{d\vec{L}_A}{dt} = \frac{d\vec{r}_A}{dt} \times \vec{p} + \vec{r}_A \times \frac{d\vec{p}}{dt}$$

$\frac{d\vec{r}_A}{dt} = \vec{v}$
 $\frac{d\vec{p}}{dt} = \vec{F}$
 $\vec{v} \times \vec{p} = 0$
 $\vec{r}_A \times \vec{F} = \tau$

$$\frac{d\vec{L}_A}{dt} = \vec{\tau}_A$$



Find \vec{L}_{disc}

$$|\vec{L}_{c_i}| = m_i (\vec{r}_i \times \vec{v}_i) \stackrel{\theta=90^\circ}{=} m_i r_i v_i \quad \begin{matrix} v = R\omega \\ v_i = \omega r_i \end{matrix}$$

$$L_{c_i} = m_i r_i^2 \omega$$

$$L_{disc} = \sum_i m_i r_i^2 \omega = \omega \left(\sum_i m_i r_i^2 \right) = I \omega$$

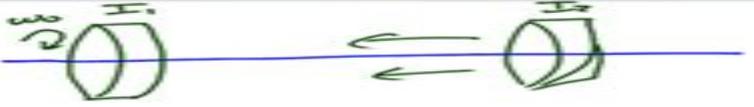
$$\vec{L} = I \vec{\omega}$$

$$p = m'v'$$

Spin Angular Momenta

Angular Momentum for an object rotating about its center of mass is constant even if you calculate it relative to ANY point in space. It is an intrinsic property for the special case of objects rotating about their center of mass.

Example
 A disc with moment of inertia I1 about its center of mass is rotating around an axis through its center with an angular velocity. A second disc with moment I2 that is not currently rotating is slid along the axis until it makes contact with the first disc. If the two discs stick together, find the final angular velocity.



$$L_i = L_f$$

$$I_1 \omega_0 = (I_1 + I_2) \omega_f$$

$$\omega_f = \left(\frac{I_1}{I_1 + I_2} \right) \omega_0$$

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William J. Thompson



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The AP Physics C Companion Dan Fullerton, 2017-02-15 The full color edition of AP Physics C Companion Mechanics is an easy to read companion to the AP Physics C Mechanics curriculum featuring 350 sample problems with full solutions The book covers all major topics of the AP C Mechanics course including calculus kinematics dynamics work energy momentum rotation oscillations and gravity *AP Physics C: Mechanics Practice Set: Comprehensive Gravitation & Dynamics* Chandresh Agrawal, Nandini Books, 2026-02-27 Ebook Details Title AP Physics C Mechanics Practice Set Comprehensive Gravitation Dynamics Series Chandresh Agrawal Professional Knowledge Series Format Digital PDF Optimized for Instant Download and DIY Print Bind Publisher Chandresh Agrawal Language English Key Features Includes Performance Evaluation Tables Answer Keys with Solutions and Concept Review Reality Based Description What is Covered Mathematical Foundations Comprehensive dimensional analysis and SI unit standardizations Dynamics Forces Intensive practice on Newton's laws force constants and tension in strings Rotational Dynamics Advanced topics including Moment of Inertia angular momentum conservation and torque analysis for rigid bodies Circular Motion Detailed kinematics of circular paths centripetal acceleration and vertical circle dynamics Gravitation Comprehensive field theory gravitational potential orbital speed and satellite motion mechanics What is NOT Covered Electromagnetism Topics such as Electrostatics Current Electricity and Magnetic Effects are excluded from this specific Mechanics module Modern Physics Quantum mechanics X rays and atomic transitions are not part of this practice set Thermodynamics Heat transfer kinetic theory of gases and thermal conductivity are reserved for separate volumes Chandresh Agrawal Brand Ethics The brand is built on 9 Golden Principles of Success integrating mental and spiritual strength with hard work Unlike purely academic publishers this brand emphasizes ethics serving elders and maintaining a Karm Yoga approach to competitive preparation Instant Download Order Print Bind Option Immediate Delivery Upon purchase at nandinibooks.com you receive an instant download link DIY Print Bind Designed specifically for the user who prefers a physical study experience The PDF layout is optimized for high quality printing and spiral binding allowing you to create your own DIY Success manual at home AP Physics C Mechanics ebook tailored for the USA and Canada market Important Disclaimer User Guide Academic Scope Limitation This ebook is a specialized Practice and Assessment Module It is designed to supplement not replace core theoretical textbooks or classroom instruction While it provides comprehensive objective questions and solutions for Classical Mechanics Dynamics and Gravitation it does not contain the exhaustive theoretical lectures required for initial concept building Practice First Philosophy The Chandresh Agrawal methodology focuses on Karm Action This book assumes the student has a baseline understanding of Physics and is now looking to master the application of those concepts through high volume high level practice sets Regional Curriculum Alignment While the content is strictly aligned with the rigor of AP Physics C Mechanics and introductory University Physics in the USA and Canada students are advised to cross reference their specific state or

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Elementary Theory of Angular Momentum Morris Edgar Rose,1995-01-01 High level treatment offers clear discussion of general theory and applications including basic principles coupling coefficients for vector addition coupling schemes in nuclear reactions and more 1957 edition

Angular Momentum William J. Thompson,2008-09-26 Develops angular momentum theory in a pedagogically consistent way starting from the geometrical concept of rotational invariance Uses modern notation and terminology in an algebraic approach to derivations Each chapter includes examples of applications of angular momentum theory to subjects of current interest and to demonstrate the connections between various scientific fields which are provided through rotations Includes Mathematica and C language programs

Angular Momentum in Quantum Mechanics A. R. Edmonds,2016-08-10 This book offers a concise introduction to the angular momentum one of the most fundamental quantities in all of quantum mechanics Beginning with the quantization of angular momentum spin angular momentum and the orbital angular momentum the author goes on to discuss the Clebsch Gordan coefficients for a two component system After developing the necessary

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