

BRAIN MAP

CLASS XI

SYSTEM OF PARTICLES AND ROTATIONAL MOTION

Centre of Mass and Centre of Gravity

- The centre of gravity of a body coincides with its centre of mass only if the gravitational field does not vary from one point of the body to other.

- Mathematically,

$$\vec{R}_{CM} = x_{CM}\hat{i} + y_{CM}\hat{j} + z_{CM}\hat{k}$$

- For discrete body, $x_{CM} = \frac{1}{M} \sum m_i x_i$

$$y_{CM} = \frac{1}{M} \sum m_i y_i, \quad z_{CM} = \frac{1}{M} \sum m_i z_i$$

- For continuous body, $\vec{R}_{CM} = \frac{1}{M} \int \vec{r} dm$

- Centre of mass of symmetric body

- Semi-circular ring, $y_{CM} = \frac{2R}{\pi}$
- Semi-circular disc, $y_{CM} = \frac{4R}{3\pi}$

Rotational Motion

- Perpendicular distance of each particle remains constant from a fixed line or point and particle do not move parallel to the line.
- Angular displacement, $\theta = \frac{s}{r}$

$$\text{Angular velocity, } \omega = \frac{d\theta}{dt}$$

$$\text{Angular acceleration, } \alpha = \frac{d\omega}{dt}$$

- Equations of rotational motion

- $\omega = \omega_0 + \alpha t$
- $\theta = \omega_0 t + \frac{1}{2} \alpha t^2$
- $\omega^2 = \omega_0^2 + 2\alpha\theta$

- Torque : Turning effect of the force about the axis of rotation.

$$\vec{\tau} = \vec{r} \times \vec{F}; \quad \tau = rF \sin\theta; \quad \tau = I\alpha$$

- Angular momentum, $\vec{L} = \vec{r} \times \vec{p}; \quad L = I\omega$

- Work done by torque, $W = \tau d\theta$

- Power, $P = \tau\omega$



Motion of Centre of Mass

- For a system of particles

$$\text{Position, } \vec{r}_{CM} = \frac{m_1 \vec{r}_1 + m_2 \vec{r}_2 + \dots}{m_1 + m_2 + \dots}$$

$$\text{Velocity, } \vec{v}_{CM} = \frac{m_1 \vec{v}_1 + m_2 \vec{v}_2 + \dots}{m_1 + m_2 + \dots}$$

$$\text{Acceleration, } \vec{a}_{CM} = \frac{m_1 \vec{a}_1 + m_2 \vec{a}_2 + \dots}{m_1 + m_2 + \dots}$$

$$\vec{F}_{ext} = 0, \text{ then } \vec{v}_{CM} = \text{constant.}$$

Moment of Inertia

- For a rigid body, $I = \sum_{i=1}^n m_i r_i^2$

- Perpendicular axes theorem:
 $I_z = I_x + I_y$
(Object is in x-y plane)

- Parallel axes theorem:

$$I_{AB} = I_{CM} + Md^2$$

Conservation of Angular Momentum

- If the net external torque acting on a system is zero, the angular momentum \vec{L} of the system remains constant, no matter what changes take place within the system.

$$\vec{L} = \text{constant}; \quad I_1 \omega_1 = I_2 \omega_2$$

(for isolated system)

Equilibrium of a Rigid Body

- A rigid body is said to be in mechanical equilibrium, if both of its linear momentum and angular momentum are not changing with time, i.e., total force and total torque are zero.
- Linear momentum does not change implies the condition for the translational equilibrium of the body and angular momentum does not change implies the condition for the rotational equilibrium of the body.

Rolling Motion

- For a body rolling without slipping, velocity of centre of mass

$$v_{CM} = R\omega$$

Kinetic energy,

$$K = K_{\text{translational}} + K_{\text{rotational}} \\ = \frac{1}{2} m v_{CM}^2 \left(1 + \frac{k^2}{R^2} \right)$$

Conceptual Pysics Rotational Motion

Michael Brown



Conceptual Pysics Rotational Motion:

Conceptual Physics Vol. III Paul G. Hewitt, 2017-01-01 Brief
 Description Since defining this course 30 years ago Paul Hewitt's best selling book continues to be the benchmark book that two thirds of professors use and by which all others are judged In Conceptual Physics Eleventh Edition Paul Hewitt shows how a compelling book and the most advanced media can be integrated to empower professors as they bring physics to life for non science majors both in and out of class For the Eleventh Edition Hewitt helps readers connect physics to their everyday experiences and the world around them and provides additional help on solving mathematical problems Hewitt's book is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and are motivated to explore the thought provoking exercises and fun projects in each chapter The new edition features a fresh new design content that is more focused on physics applications and updated pedagogical features Key Topics About Science Newton's First Law of Motion Inertia Linear Motion Newton's Second Law of Motion Force and Acceleration Newton's Third Law of Motion Action and Reaction Momentum Energy Rotational Motion Gravity Projectile and Satellite Motion Atomic Nature of Matter Solids Liquids Gases and Plasmas Temperature Heat and Expansion Heat Transfer Change of Phase Thermodynamics Vibrations and Waves Sound Musical Sounds Electrostatics Electric Current Magnetism Electromagnetic Induction Properties of Light Color Reflection and Refraction Light Waves Light Emission Light Quanta The Atom and the Quantum Atomic Nucleus and Radioactivity Nuclear Fission and Fusion Special Theory of Relativity General Theory of Relativity Appendices Market Intended for those interested in learning the basics of conceptual physics X+1 School/Board Exam Based Conceptual Physics (School/Board Exam Made Simple) L M Garg, 2023-06-03 *Conceptual Physics*, 1985 Rev ed of Conceptual physics a new introduction to your environment 4th ed 1981 *Conceptual Physics--a New Introduction to Your Environment*, 1981 **Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed** Paul G. Hewitt, 1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics Conceptual Physics Paul G. Hewitt, 2007-09 *Science and Service Learning* Jane L. Newman, Dennis W. Sunal, Cynthia S Sunal, 2016-12-01 The goal of Volume VII of Research in Science Education is to examine

the relationship between science inquiry and service learning Its primary intent is to bridge the gaps between research and practice The volume is meant to be useful to science and service learning researchers and practitioners such as teachers and administrators because it provides information about strategies to integrate service learning into the science curriculum and instruction The main themes relate to such topics as Student science academic engagement and academic achievement Teacher instructional strategies in science and service learning Science curricula adaptation or development Civic responsibility of students and community partners Resiliency of students at risk Effect of standards based service learning and science on student outcomes such as academic engagement civic engagement and resiliency to adversity Specific case studies and strategies focus on how to Make learning more engaging Encourage collaboration among students teachers and community partners Improve academic competence Create social civic responsibility Stimulate resiliency in students at risk Improve student interest in STEM subjects and majors Develop STEM career interests Improve the quality of science and service learning instruction through addressing standards Students can learn in teacher centered classrooms however a learner centered class that focuses on science inquiry and service learning is more authentic and engaging to learners This type of learning may not be the only way to teach however many educators believe that it is the best way for students to learn

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Evaluation Package for Cutnell and Johnson Physics 8E Cutnell,2008-10-28 **2003 Physics Education Research Conference** Jeffrey Marx,Scott Franklin,Karen Cummings,2004-09-09 The 2003 Physics Education Research Conference Proceedings contains peer reviewed and invited papers based on oral presentations and posters The papers span topics including instructional assessment data analysis student understanding and issues of learning

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