MAP

SYSTEM OF PARTICLES AND ROTATIONAL MOTION

CLASS XI

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,

$$R_{CM} = x_{CM}\hat{i} + y_{CM}\hat{j} + x_{CM}\hat{k}$$

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

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

- For continuous body, R

 _{CM} =

 1

 M ∫ F dm
- Centre of mass of symmetric body
 - Semi-circular ring, $y_{CM} = \frac{2R}{\pi}$
 - Semi-circular disc, F_{CM} = 4R/3π

Motion of Centre of Mass

- · For a system of particles
 - Position, i_{CM} = m₁j₁ + m₂j₂ + m₁ + m₂ +
 - Velocity, $\vec{v}_{CM} = \frac{m_1 \vec{v}_1 + m_2 \vec{v}_2 +}{m_1 + m_2 +}$
 - Acceleration, d_{CM} = m₁d₁ + m₂d₂ + ____
 m₁ + m₂ + ____

 $F_{\rm esc} = 0$, then $V_{\rm CM} = {\rm constant}$.

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, 0 = ⁵/₂

Angular velocity, $\omega = \frac{d0}{dt}$

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

- Equations of rotational motion
 - ea = ea₀ + ext
 - $0 = \cos_0 t + \frac{1}{2} \cot^2 t$
 - $as^2 = sa_0^2 + 2cx\theta$
- Torque: Turning effect of the force about the axis of rotation.

 $\overline{\tau} = \overline{r} \times \overline{P}$, $\overline{\tau} = rT \sin \theta$, $\overline{\tau} = ter$

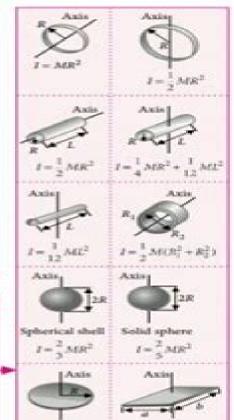
- Angutar momentum, L = F × p; L = Iso
- Work done by torque, W = ±40
- Power, P = ten

Moment of Inertia

- For a rigid body, I = ∑_{i=1}^m m_ir_i¹
- Perpendicular axes theorem:
 I_z = I_z + I_y
 (Object is in x-y-plane)







Conservation of Angular Momentum

 If the net external torque acting on a system is zero, the angular momentum £ of the system remains constant, no matter what changes take place within the system.

$$\underline{I}' = \text{constant}; I_1 m_1 = I_2 m_2$$

(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 tongue 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

 $I = AtR^3/2$

 For a body rolling without slipping, welocity of centre of mass

$$Y_{CM} = Res$$

Kimetic energy.

$$K = K_{\text{translational}} + K_{\text{potentional}}$$

= $\frac{1}{2} mcr_{CM}^2 \left[1 + \frac{\hat{k}^2}{p^2} \right]$

 $I = M(a^2 + b^2)$

Conceptual Pysics Rotational Motion

Sidney J. Blatt, Ethel S. Blatt

Conceptual Pysics Rotational Motion:

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

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