

# GRAVITATION

## \* Gravitational force :

- Every matter attract every other matter.
- Central force
- Conservative force
- Long range force
- Quant depend on medium.

$$\vec{F}_{12} = \vec{F}_{21} = \frac{G M_1 M_2}{r^2}$$

## \* Newton's law of Gravitation

- only valid for point mass and spherical mass system.

$G \rightarrow$  Gravitational constant  
 $G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$

## \* Superposition theorem

- Force bet<sup>o</sup> 2 object doesn't depend on presence of other object.

$$\vec{F}_{net} = \vec{F}_1 + \vec{F}_2 + \vec{F}_3 + \dots$$

Diagram showing masses  $m_1, m_2, m_3, m_4$  in a line.  $\vec{F}_{net} = \vec{F}_1 + \vec{F}_2 + \vec{F}_3 + \dots$  (at  $m_1$ )

$$= \frac{G m_1 m_2}{(1)^2} + \frac{G m_1 m_3}{(2)^2} + \frac{G m_1 m_4}{(3)^2} + \dots$$

GP Series

$$\frac{\frac{G m_1^2}{1} \cdot \frac{1}{1-x}}{1-x} = \frac{G m_1^2}{1-x} = \frac{4}{3} G m_1^2$$

## \* $M, R$ Hollow sphere

Diagram of a hollow sphere with radius  $R$  and mass  $M$ . A point mass  $m$  is at distance  $r$  from the center.

$$F = \frac{G M m}{(R+r)^2}$$

$F_{\text{inside mass}} = 0$

## \* Solid sphere

Diagram of a solid sphere with radius  $R$  and mass  $M$ . A point mass  $m$  is at distance  $r$  from the center.

$$F = \frac{G M' m}{r^2}$$

$$M' = \frac{4}{3} \pi r^3 \rho$$

$$M' = \frac{M r^3}{R^3}$$

$$F = \frac{G M m}{r^2}$$

$$F_{\text{surface}} = \frac{G M m}{R^2}$$

Diagram showing a hollow sphere of radius  $R$  and mass  $M$  with a point mass  $m$  at distance  $d$  from the center. The force  $F_{net} = 0$  is indicated.

$$\alpha = \frac{d}{4R} - 1$$

Diagram showing a solid sphere of radius  $R$  and mass  $M$  with a point mass  $m$  at distance  $d$  from the center. The force  $F = \frac{G M m}{d(d+L)}$  is indicated.

## \* Gravitational field intensity (Grav. force on unit mass)

$$\vec{I} = \lim_{m \rightarrow 0} \frac{\vec{F}}{m}$$

$m_0 \rightarrow \text{test mass}$

### (i) due to point mass

Diagram showing a point mass  $M$  and a test mass  $m_0$  at distance  $r$ . The force  $F = \frac{G M m_0}{r^2}$  is indicated.

$$I = \frac{F}{m_0} \Rightarrow I = -\frac{G M}{r^2}$$

$I \propto \frac{1}{r^2}$

### (ii) due to hollow sphere

Diagram of a hollow sphere with radius  $R$  and mass  $M$ . A point mass  $m_0$  is at distance  $r$  from the center.

$$I_{\text{outside}} = -\frac{G M}{r^2}$$

$$I_{\text{surface}} = -\frac{G M}{R^2}$$

$$I_{\text{inside}} = 0$$

$I \propto \frac{1}{r^2}$

### (iii) Solid sphere

Diagram of a solid sphere with radius  $R$  and mass  $M$ . A point mass  $m_0$  is at distance  $r$  from the center.

$$I_{\text{outside}} = -\frac{G M}{r^2}$$

$$I_{\text{surface}} = -\frac{G M}{R^2}$$

$$I_{\text{inside}} = -\frac{G M r}{R^3}$$

$I \propto \frac{1}{r^2}$

### (iv) Axis of ring

Diagram of a ring with mass  $M$  and radius  $R$ . A point mass  $m$  is at distance  $x$  from the center along the axis.

$$I = \frac{G M x}{(R^2 + x^2)^{3/2}}$$

$\alpha \ll R$

$$I = \frac{G M \alpha}{R^3}$$

$\alpha \gg R$

$$I = \frac{G M}{\alpha^2}$$

$\alpha = R/2$

# Gravitation Study Guide

**Arshad Iqbal**



## Gravitation Study Guide:

*Study Guide--Physics for Scientists and Engineers with Modern Physics [by] Douglas C. Giancoli, 2nd Ed* Douglas Brandt, Keith Andrew, Leonard E. Storm, 1988      Study Guide with ActivPhysics Alan Van Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999      *General Studies : Self Study Guide Book with 100 Topics Covered (1500+ MCQs in Practice Tests) - Useful for SSC, Railway, UDC, LDC, Police, Bank, UPSC, MBA, MAT and other Competitive Exams* EduGorilla Prep Experts, 2024-05-01 The presented book has been prepared keeping the candidates in mind in which the syllabus useful for the examination has been included Through this book we will be helped in understanding various aspects related to the subject EduGorilla Publications a reputed education technology organization has created a comprehensive book General Studies with the personal guidance of Rohit Manglik CEO of the organization It provides a structured and excellent approach to exam preparation and helps you build a strong foundation in key concepts and topics      **Study Guide to Accompany Halliday and Resnick Fundamentals of Physics 2nd Ed. and Physics, Combined, 3rd Ed.** Stanley A. Williams, 1981-04-27 This popular book incorporates modern approaches to physics It not only tells readers how physics works it shows them Applications have been enhanced to form a bridge between concepts and reasoning      Student Study Guide to Accompany Fundamentals of Physics, Rev. Printing, Physics, 3d Ed., Parts 1 and 2 Stanley A. Williams, 1978

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## Unveiling the Magic of Words: A Overview of "**Gravitation Study Guide**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Gravitation Study Guide**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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