

# 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

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

## \* $M, R$ Hollow sphere

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

$$F = \frac{G M m m_1}{(R + r)^2}$$

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

## \* Solid sphere

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

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

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

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

$$F = \frac{G M m r^3}{R^3 r^2} = \frac{G M m r}{R^3}$$

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

$$F = \frac{G M m r^3}{R^3 r^2} = \frac{G M m r}{R^3}$$

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

Diagram showing a hollow sphere of radius  $R$  and mass  $M$  with a point mass  $m$  at distance  $d$  from the center. The force  $F$  is shown acting on the mass.

$$F_{net} = 0$$

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

Diagram showing a solid sphere of radius  $R$  and mass  $M$  with a point mass  $m$  at distance  $d$  from the center. The force  $F$  is shown acting on the mass.

$$F = \frac{G M m}{d(d+L)}$$

## \* 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  $F$  is shown acting on the test mass.

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

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

### (ii) due to hollow sphere

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

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

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

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



### (iii) Solid sphere

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

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

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

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

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

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

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

### (iv) Axis of ring

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

$$I_{\text{max}}$$

$$\alpha = R/2$$

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

$$\alpha \ll R$$

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

$$\alpha \gg R$$

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

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