

GRAVITATION

Gravitational force

- Every matter attract every other matter.
- Central force
- Conservative force
- Long range force
- Independent of medium.

$$\vec{F}_{12} = \vec{F}_{21} = \frac{GM_1 M_2}{r^2}$$

Newton's law of Gravitation

- Only valid for point mass and spherical mass system.

G → Gravitational constant

$$G = 6.67 \times 10^{-11} \text{ N m}^2/\text{kg}^2$$

Superposition theorem

- Force b/w 2 objects doesn't depend on presence of other object.
- $\vec{F}_{\text{tot}} = \vec{F}_1 + \vec{F}_2 + \vec{F}_3 + \dots$

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

$$G M_1 M_2 \frac{1}{r_1^2} + G M_1 M_3 \frac{1}{r_2^2} + G M_1 M_4 \frac{1}{r_3^2} + \dots$$

$$\frac{G M_1}{1-\alpha} = \frac{G M_1}{1-\frac{\alpha}{4}} = \frac{4}{3} G M_1$$

M.R. - Hollow sphere

$$\vec{F}_{\text{tot}} = 0$$

$$F = \frac{GM_1 M_2}{(R+r)^2}$$

Solid sphere

$$f = \frac{GM}{R^2}$$

$$M = \frac{4}{3} \pi R^3$$

$$M' = \rho V$$

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

$$F = \frac{GMm}{R^2}$$

$$F = \frac{GMr}{R^2}$$

$$F = \frac{GMr}{R^2}$$

$$\vec{F}_{12} = \vec{F}_{21}$$

$$\vec{F}_{\text{tot}} = 0$$

$$d\alpha = \frac{d\theta}{\sin \theta}$$

$$F = \frac{GMr}{R^2}$$

$$F = \frac{GMr}{d(d+L)}$$

Gravitational field intensity (Grav. force on unit mass)

(i) due to point mass

$$\vec{F} = \frac{GMm}{r^2}$$

$$I = \frac{F}{m} = \frac{GM}{r^2}$$

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

(ii) due to hollow sphere

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

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

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

(iii) Axis of ring

$$I = \frac{GMm}{(R^2 + \alpha^2)^{3/2}}$$

$$\alpha \ll R$$

$$I = \frac{GMm}{R^2}$$

$$I = \frac{GMm}{(R^2 + \alpha^2)^{3/2}}$$

$$\alpha \gg R$$

$$I = \frac{GMm}{\alpha^2}$$

(iv) Solid sphere

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

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

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

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

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

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

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