

GRAVITATIONS

when $h = \text{small}$

$$g' = g \left(1 - \frac{2h}{R}\right)$$

* Variation of 'g' with depth:



$$g' = g \left(1 - \frac{d}{R}\right)$$

$$g'_{\text{center}} = 0$$

* Variation of 'g' due to rotation of earth:



$$g' = g - R\omega^2 \cos^2 \phi$$

$$g'_{\text{pole}} = g - R\omega^2 \times 0$$

$$g' = g \text{ at pole}$$

$$\text{at equator} = g' = g - R\omega^2$$

* If you want to feel weightless, then your ω must be

$$\omega = \sqrt{\frac{g}{R}}$$

* Variation in 'g' due to shape of earth:



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

$g_{\text{pole}} = \frac{GM}{R_p^2}$ The polar radius is 21 km less than the equatorial radius.

* Relation of 'g' in terms of ρ density:

$$g = G \frac{4}{3} \rho \pi R$$

* Potential energy of point mass system:



$$U = -\frac{Gm_1m_2}{r}$$



$$U = -\frac{GMm}{r}$$

$$V = \frac{U}{m} = \text{Potential}$$

$$V = -\frac{GM}{r}$$

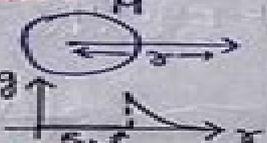


$$U = \frac{-GM \times 3}{r}$$

* Hollow sphere:

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

$$g_{\text{out}} = \frac{GM}{r^2}$$



* Solid sphere:

$$g_{\text{in}} = \frac{GM_r}{R^3}$$

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



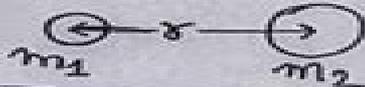
* Energy of satellite:



$$\frac{mv^2}{R}$$

$$\frac{GMm}{r^2}$$

* GRAVITATIONAL FORCE:-



$$F = \frac{Gm_1m_2}{r^2}$$

G = same always

$$G = 6.67 \times 10^{-11}$$

Vector:-

$$\frac{Gm_1m_2}{r^2} \hat{r}$$

$$\hat{r} = \frac{\vec{r}}{r}$$

* Gravitational field:-

$$g = \frac{F}{m} = \text{acc}^n \text{ due to gravity}$$



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

$$g = \frac{GM}{r^2}$$

$$g = \frac{GM}{(R+h)^2}$$

If we take $h = 0$ (at surface of earth);

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

* Variation of 'g' with height:-

$$g = \frac{GM}{r^2} = \frac{GM}{(R+h)^2}$$

$$g' = \frac{gR^2}{(R+h)^2}$$

g' = value of g at some height g .

$$g' = \frac{g}{\left(1 + \frac{h}{R}\right)^2}$$

Physics Notes 12 Science Gravitation Chapter

Shasha Hu



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