

# 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:



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

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

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

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

\* If you want to feel weightless, then your omega ( $\omega$ ) must be

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

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



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

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

\* Relation of 'g' in terms of  $\rho$  density:

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

\* Potential energy of point mass system:



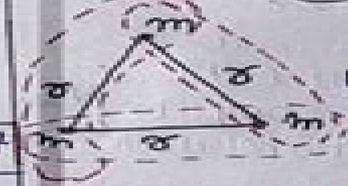
$$U = -\frac{Gm_1m_2}{r}$$



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

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

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

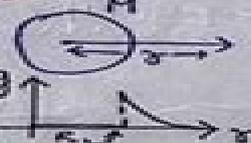


$$U = \frac{-GM \times 3}{r}$$

# 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

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

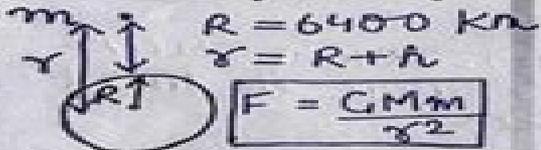
Vector:-

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

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

\* Gravitational field:-

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



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

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

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  $g$ .

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

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**Kathleen Armour**



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