

# 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 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 21 km 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:



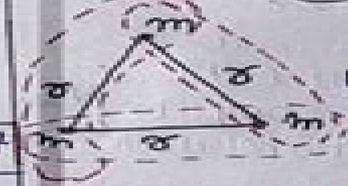
$$U = -\frac{Gm_1m_2}{r}$$



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

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

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



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

\* 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

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

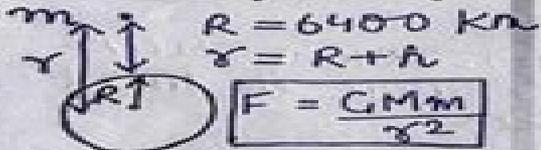
Vector:-

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

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

\* Gravitational field:-

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



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

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

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

If we take  $\Rightarrow h = 0$  (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 Pdf

**RD Boyd**



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**The Grip of Gravity** Prabhakar Gondhalekar, 2001-08-23 Gravity is one of the most inexplicable forces of nature controlling everything

from the expansion of the Universe to the ebb and flow of ocean tides The search for the laws of motion and gravitation began more than two thousand years ago a quest that Prabhakar Gondhalekar recounts in *The Grip of Gravity* Beginning with Aristotle and concluding with Planck Gondhalekar outlines a genealogy of gravity and lucidly explains how previous explanations have shaped the most recent development in the field string theory In this work physicist and astronomer Gondhalekar describes experiments both planned and proposed and clearly explains natural phenomena like ocean tides seasons ice ages the formation of planets stars and exotic objects like black holes and neutron stars which are all controlled by gravity Including anecdotes and thumb nail sketches of the personalities involved *The Grip of Gravity* provides an introduction to the foundation of modern physics and shows how the current developments in string theory may lead to a new and radical interpretation of gravity Prabhakar Gondhalekar is an Honorary Fellow in the Department of Physics and Astronomy University College London Until his retirement in 1998 he was the head of the Space Astronomy Group at the Rutherford Appleton Laboratory where he had been a researcher for 18 years His research has included a number of topics in galactic and extragalactic astronomy with his major work focusing on the interstellar medium and active galactic nuclei Gondhalekar has been awarded Royal Society Leverhulme Trust and NATO Research Fellowships to do research in universities in the United States and Israel

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