

# 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:



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

$g_{\text{pole}} = \frac{GM}{R_p^2}$  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:



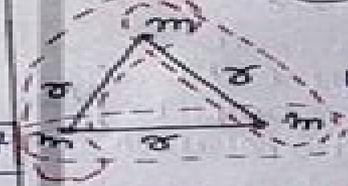
$$U = -\frac{Gm_1m_2}{r}$$



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

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

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

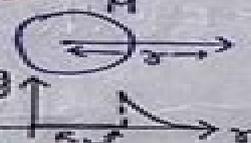


$$U = \frac{-GM \times 3}{r}$$

# 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

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

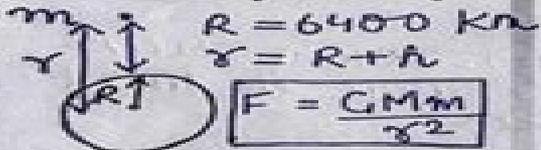
Vector:-

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

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

\* Gravitational field:-

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



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

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

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

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 Pdf

**Prabhakar Gondhalekar**



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book examines how far our modern cosmological theories with their sometimes audacious models such as inflation cyclic histories quantum creation parallel universes can take us towards answering these questions Can such theories lead us to ultimate truths leaving nothing unexplained Last but not least Heller addresses the thorny problem of why and whether we should expect to find theories with all encompassing explicative power

Unified Field Mechanics II: Formulations And Empirical Tests - Proceedings Of The Xth Symposium Honoring Noted French Mathematical Physicist Jean-pierre Vigier  
Richard L Amoroso,Louis H Kauffman,Peter Rowlands,Gianni Albertini,2018-01-08 This volume recording the 10th international symposium honoring noted French mathematical physicist Jean Pierre Vigier surveys and continues to develop Unified Field Mechanics UFM from the perspective of Multiverse cosmology and Topological Field Theory UFM represents a developing paradigm shift with many new parameters extending the Standard Model to a 3rd regime of Natural Science beyond Quantum Mechanics UFM is now experimentally testable thus putatively able to demonstrate the existence of large scale additional dimensionality LSXD test for QED violating phenomena and surmount the quantum uncertainty principle leading to a new Age of Discovery paling all prior ages in the historical progression Classical Mechanics 3D to Quantum Mechanics 4D and now to the birth of the 3rd regime of UFM in additional dimensionality correlating with M Theory Many still consider the Planck scale as the basement of reality This could only be considered true under the limitations of the Standard Model As we methodically enter the new regime a profound understanding of the multiverse and additional dimensionality beckons

**Mathematical Reviews** ,2004 **PEER Physics Chapter G: Gravitation** Shelly Belleau,Valerie Otero,Emily Quinty,2018-12-31

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the book also explains the recent experimental confirmation of the existence of gravitational waves

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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 *New Perspectives in Canonical Gravity* Abhay Ashtekar,1988 **The Theory of Space, Time and Gravitation** V. Fock,1966

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