


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 ω 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 ρ density:

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

* Potential energy of point mass system:



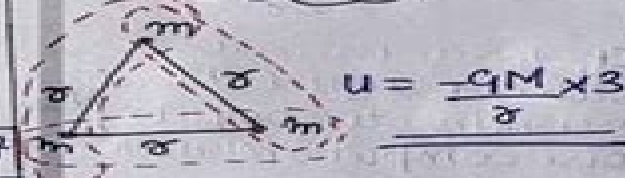
$$U = -\frac{Gm_1m_2}{r}$$



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

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


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



Hollow sphere:

Inside = 0

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



Solid sphere:

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

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



Energy of satellite:



* GRAVITATIONAL FORCE:-



$$F = \frac{Gm_1m_2}{r^2} \quad G = \text{same always}$$

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

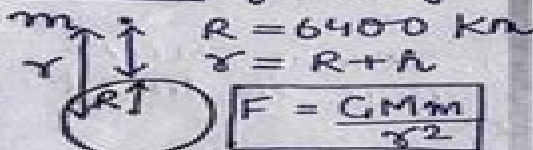
Vector:-

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

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

* Gravitational field:-

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



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

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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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

Ultimate Explanations of the Universe Michael Heller,2009-11-12 We humans are collectively driven by a powerful yet not fully explained instinct to understand We would like to see everything established proven laid bare The more important an issue the more we desire to see it clarified stripped of all secrets all shades of gray What could be more important than to understand the Universe and ourselves as a part of it To find a window onto our origin and our destiny This 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

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Newton's Gravity Douglas W. MacDougal, 2012-12-16

Newton's Gravity conveys the power of simple mathematics to tell the fundamental truth about nature Many people for example know the tides are caused by the pull of the Moon and to a lesser extent the Sun But very few can explain exactly how and why that happens Fewer still can calculate the actual pulls of the Moon and Sun on the oceans This book shows in clear detail how to do this with simple tools It uniquely crosses disciplines history astronomy physics and mathematics and takes pains to explain things frequently passed over or taken for granted in other books Using a problem based approach Newton's Gravity explores the surprisingly basic mathematics behind gravity the most fundamental force that governs the movements of satellites planets and the stars Author Douglas W MacDougal uses actual problems from the history of astronomy as well as original examples to deepen understanding of how discoveries were made and what they mean Newton's Gravity concentrates strongly on the development of the science of orbital motion beginning with Galileo Kepler and Newton each of whom is prominently represented Quotes and problems from Galileo's Dialogs Concerning Two New Sciences and particularly Newton's Principia help the reader get inside the mind of those thinkers and see the problems as they saw them and experience their concise and typically eloquent writing This book enables students and curious minds to explore the mysteries of celestial motion without having to know advanced mathematics It will whet the reader's curiosity to explore further and provide him or her the tools mathematical or physical to do so

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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

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