

# 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  $\omega$  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  $\rho$  density:

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

\* Potential energy of point mass system:



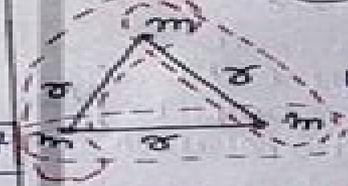
$$U = -\frac{Gm_1m_2}{r}$$



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

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

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



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

\* 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

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

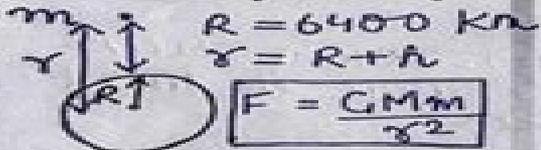
Vector:-

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

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

\* 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  $g$ .

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

# Physics Notes 12 Science Gravitation Chapter Pdf

**M. G. Bowler**



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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

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**Gravity and Gravitation** Kurtus Ron,2011-07 Gravity and Gravitation is a physics book that is written in a form that is easy to understand for high school and beginning college students as well as science buffs It is based on the lessons from the School for Champions educational website The book explains the principles of gravity and gravitation shows derivations of important gravity equations and provides applications of those equations It also compares the different theories of gravitation from those of Newton to Einstein to present day concepts

**Gravity!** Pierre Binétruy,2018 What force do the Big Bang the expansion of the Universe dark matter and dark energy black holes and gravitational waves all have in common This book uncovers gravity as a key to understanding these fascinating phenomena that have so captivated public interest in recent years Readers will discover the latest findings on how this familiar force in our everyday lives powers the most colossal changes in the Universe Written by the widely recognized French public scientist and leading astrophysicist Pierre Binetruy

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

*Gravitation and Relativity* M. G. Bowler, 1976 *Gravitation and Relativity* generalizes Isaac Newton s theory of gravitation using the elementary tools of Albert Einstein s special relativity Topics covered include gravitational waves martian electrodynamics relativistic gravitational fields and gravitational forces the distortion of reference frames and the precession of the perihelion of Mercury Black holes and the geometry of spacetime also receive consideration This book is comprised of 10 chapters the first of which briefly reviews special relativity with the emphasis on the Lorentz covariance of the equations of physics This

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