

# 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  $\omega$  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:



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



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

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

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

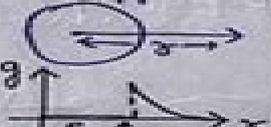


$$U = \frac{-GM \times 3}{r}$$

\* Hollow sphere:

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:



$\frac{mv^2}{R} = \frac{GMm}{r^2}$

$r = R + h$

\* GRAVITATIONAL FORCE:-



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

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

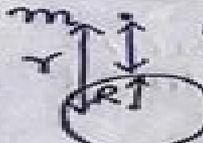
Vector:-

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

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

\* Gravitational field:-

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



$R = 6400 \text{ km}$   
 $r = R + h$

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

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

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

If we take  $h=0$  (at surface of earth);

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

\* Variation of 'g' with height:-

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

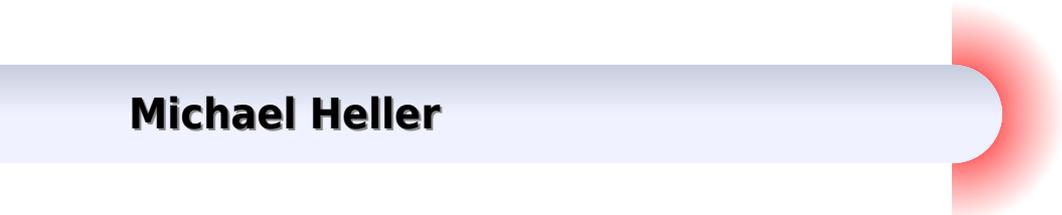
$$g' = \frac{gR^2}{(R+h)^2}$$

$g'$  = value of  $g$  at some height  $g$ .

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

# Physics Notes 12 Science Gravitation Chapter Pdf

**Michael Heller**



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

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Thermodynamics MCQ Chapter 30 Simple Harmonic Motion MCQ Chapter 31 Special Relativity MCQ Chapter 32 Straight Line Motion MCQ Chapter 33 Transverse Waves MCQ Chapter 34 Two and Three Dimensional Motion MCQ Chapter 35 Vector Quantities MCQ Chapter 36 Work Kinetic Energy Theorem MCQ The Alternating Fields and Currents MCQ PDF e Book Chapter 1 practice test to solve MCQ questions on Alternating current damped oscillations in an RLS circuit electrical mechanical analog forced and free oscillations LC oscillations phase relations for alternating currents and voltages power in alternating current circuits transformers The Astronomical Data MCQ PDF e Book Chapter 2 practice test to solve MCQ questions on Aphelion distance from earth eccentricity of orbit equatorial diameter of planets escape velocity of planets gravitational acceleration of planets inclination of orbit to earth s orbit inclination of planet axis to orbit mean distance from sun to planets moons of planets orbital speed of planets perihelion period of rotation of planets planet densities planets masses sun earth and moon The Capacitors and Capacitance MCQ PDF e Book Chapter 3 practice test to solve MCQ questions on Capacitor in parallel and in series capacitor with dielectric charging a capacitor cylindrical capacitor parallel plate capacitor The Circuit Theory MCQ PDF e Book Chapter 4 practice test to solve MCQ questions on Loop and junction rule power series and parallel resistances single loop circuits work energy and EMF The Conservation of Energy MCQ PDF e Book Chapter 5 practice test to solve MCQ questions on Center of mass and momentum collision and impulse collisions in one dimension conservation of linear momentum conservation of mechanical energy linear momentum and Newton s second law momentum and kinetic energy in collisions Newton s second law for a system of particles path independence of conservative forces work and potential energy The Coulomb s Law MCQ PDF e Book Chapter 6 practice test to solve MCQ questions on Charge is conserved charge is quantized conductors and insulators and electric charge The Current Produced Magnetic Field MCQ PDF e Book Chapter 7 practice test to solve MCQ questions on Ampere s law and law of Biot Savart The Electric Potential Energy MCQ PDF e Book Chapter 8 practice test to solve MCQ questions on Introduction to electric potential energy electric potential and equipotential surfaces The Equilibrium Indeterminate Structures MCQ PDF e Book Chapter 9 practice test to solve MCQ questions on Center of gravity density of selected materials of engineering interest elasticity equilibrium indeterminate structures ultimate and yield strength of selected materials of engineering interest and Young s modulus of selected materials of engineering interest The Finding Electric Field MCQ PDF e Book Chapter 10 practice test to solve MCQ questions on Electric field electric field due to continuous charge distribution electric field lines flux and Gauss law The First Law of Thermodynamics MCQ PDF e Book Chapter 11 practice test to solve MCQ questions on Absorption of heat by solids and liquids Celsius and Fahrenheit scales coefficients of thermal expansion first law of thermodynamics heat of fusion of common substances heat of transformation heat of vaporization of common substances introduction to thermodynamics molar specific heat substance specific heat in calories temperature temperature and heat thermal conductivity thermal expansion and zeroth law of thermodynamics The Fluid Statics and Dynamics MCQ PDF e Book

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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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### **Table of Contents Physics Notes 12 Science Gravitation Chapter Pdf**

1. Understanding the eBook Physics Notes 12 Science Gravitation Chapter Pdf
  - The Rise of Digital Reading Physics Notes 12 Science Gravitation Chapter Pdf
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Notes 12 Science Gravitation Chapter Pdf
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physics Notes 12 Science Gravitation Chapter Pdf
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Notes 12 Science Gravitation Chapter Pdf

- Personalized Recommendations
  - Physics Notes 12 Science Gravitation Chapter Pdf User Reviews and Ratings
  - Physics Notes 12 Science Gravitation Chapter Pdf and Bestseller Lists
5. Accessing Physics Notes 12 Science Gravitation Chapter Pdf Free and Paid eBooks
    - Physics Notes 12 Science Gravitation Chapter Pdf Public Domain eBooks
    - Physics Notes 12 Science Gravitation Chapter Pdf eBook Subscription Services
    - Physics Notes 12 Science Gravitation Chapter Pdf Budget-Friendly Options
  6. Navigating Physics Notes 12 Science Gravitation Chapter Pdf eBook Formats
    - ePub, PDF, MOBI, and More
    - Physics Notes 12 Science Gravitation Chapter Pdf Compatibility with Devices
    - Physics Notes 12 Science Gravitation Chapter Pdf Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Physics Notes 12 Science Gravitation Chapter Pdf
    - Highlighting and Note-Taking Physics Notes 12 Science Gravitation Chapter Pdf
    - Interactive Elements Physics Notes 12 Science Gravitation Chapter Pdf
  8. Staying Engaged with Physics Notes 12 Science Gravitation Chapter Pdf
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Physics Notes 12 Science Gravitation Chapter Pdf
  9. Balancing eBooks and Physical Books Physics Notes 12 Science Gravitation Chapter Pdf
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Physics Notes 12 Science Gravitation Chapter Pdf
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Physics Notes 12 Science Gravitation Chapter Pdf
    - Setting Reading Goals Physics Notes 12 Science Gravitation Chapter Pdf
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Physics Notes 12 Science Gravitation Chapter Pdf

- Fact-Checking eBook Content of Physics Notes 12 Science Gravitation Chapter Pdf
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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