

# Gravitation

## 8.1 Introduction



Newton at the age of twenty-three is said to have seen an apple falling down from tree in his orchid. This was the year 1665. He started thinking about the role of earth's attraction in the motion of moon and other heavenly bodies.

By comparing the acceleration due to gravity due to earth with the acceleration required to keep the moon in its orbit around the earth, he was able to arrive the Basic Law of Gravitation.

## 8.2 Newton's law of Gravitation

Newton's law of gravitation states that every body in this universe attracts every other body with a force, which is directly proportional to the product of their masses and inversely proportional to the square of the distance between their centres. The direction of the force is along the line joining the particles.

Thus the magnitude of the gravitational force  $F$  that two particles of masses  $m_1$  and  $m_2$  separated by a distance  $r$  exert on each other is given by  $F \propto \frac{m_1 m_2}{r^2}$

$$\text{or } F = G \frac{m_1 m_2}{r^2}$$

**Vector form :** According to Newton's law of gravitation

$$\vec{F}_{12} = -\frac{Gm_1 m_2}{r^2} \hat{r}_{12} \quad \vec{F}_{21} = -\frac{Gm_1 m_2}{r^2} \hat{r}_{21} \quad \vec{F}_{21} = -\frac{Gm_1 m_2}{|\vec{r}_{21}|^2} \hat{r}_{21}$$

Here negative sign indicates that the direction of  $\vec{F}_{12}$  is opposite to that of  $\hat{r}_{12}$ .

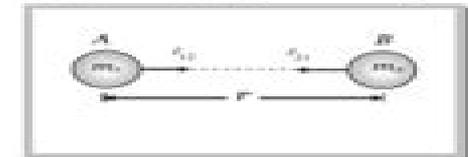
$$\begin{aligned} \text{Similarly } \vec{F}_{21} &= -\frac{Gm_1 m_2}{r^2} \hat{r}_{21} \quad \vec{F}_{12} = -\frac{Gm_1 m_2}{r^2} \hat{r}_{12} \quad \vec{F}_{12} = -\frac{Gm_1 m_2}{|\vec{r}_{12}|^2} \hat{r}_{12} \\ &= \frac{Gm_1 m_2}{r^2} \hat{r}_{21} \quad [\because \hat{r}_{12} = -\hat{r}_{21}] \end{aligned}$$

$\therefore$  It is clear that  $\vec{F}_{12} = -\vec{F}_{21}$ . Which is Newton's third law of motion.

Here  $G$  is constant of proportionality which is called 'Universal gravitational constant'.

If  $m_1 = m_2$  and  $r = 1$  then  $G = F$

*i.e.* universal gravitational constant is equal to the force of attraction between two bodies each of unit mass whose centres are placed unit distance apart.



$\hat{r}_{12}$  = unit vector from A to B

$\hat{r}_{21}$  = unit vector from B to A.

$\vec{F}_{12}$  = gravitational force exerted on body A by body B

$\vec{F}_{21}$  = gravitational force exerted on body B by

### Important points

- (i) The value of  $G$  in the laboratory was first determined by Cavendish using the torsional balance.
- (ii) The value of  $G$  is  $6.67 \times 10^{-11} \text{ N-m}^2 \text{ kg}^{-2}$  in S.I. and  $6.67 \times 10^{-8} \text{ dyne-cm}^2 \text{ g}^{-2}$  in C.G.S. system.

# Genius Physics Gravitation Physics With Pradeep

**John W. Moffat**



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History of Science and Philosophy of Science Pradip Kumar Sengupta,2010      **neuroAI** A. K. Pradeep,Anirudh

Acharya,Rajat Chakravarty,Ratnakar Dev,2024-08-27 It is the most powerful revolution of this century Neuroscience powered GenAi enables massive impact on everything from medicine to marketing entertainment to education flavors to fragrances and much more Simply by blending cutting edge neuroscience with bleeding edge GenAi Put humanity back at the center of GenAi neuroAi Winning the Minds of Consumers with Neuroscience Powered GenAi is the master guide for everyone seeking to understand this breakthrough technology what it is how it works and most especially how to put it to work for competitive advantage in the marketplace neuroAi combines learnings from advanced neuroscience with deep GenAi expertise and practical how to s This is a force multiplier enabling readers to gain the fullest understanding of how to apply neuroscience powered GenAi to appeal most effectively to the hidden driver of 95% of consumer behavior the non conscious mind Innovators creatives and corporate executives now have a blueprint of how to unleash neuroAi at scale in the enterprise The focus is on Top Line Growth build and grow revenues while exciting and winning consumers Written by Dr A K Pradeep and his team of experts at Sensori ai the world s only firm combining advanced neuroscience learnings with GenAi neuroAi features a primer on neuroscience GenAi and the core memory structures and functions of the human brain Dr Pradeep s original book The Buying Brain broke new ground by bringing neuroscience into marketing neuroAi takes continues this innovative journey even farther now by combining advanced neuroscience with GenAi The book explores key topics including How the non conscious mind interacts with GenAi to trigger the most relevant and impactful consumer responses What are key learnings from teen brains boomer brains mommy brains middle age brains that GenAi must be aware of How activating desireGPT the brain s desire framework strongly drives purchase intent and brand loyalty How TV shows movies and music can achieve higher Ratings by applying neuroscience powered GenAi to writing Scripts and Dialogs How to create Fragrance and Flavors using neuroAi How a wide range of consumer product categories worldwide are applying neuroscience powered GenAi to foster innovation spur sales and build brands How to build scalable capability in neuroAi within the enterprise For business leaders and all who seek expert insight and practical guidance on how to harness this astounding technology with maximum effect for business and personal success neuroAi serves as an inspiring and accessible resource for successful marketing in the Age of the Machine      **INSIDE THE MIND: Unravelling the Brain's Wonders in Everyday Life** Dr. Pradeep Kumar Thakur, Inside the Mind by Dr Pradeep Kumar Thakur is a powerful exploration of the human brain its mysteries adaptability and immense potential Written in a simple accessible style the book blends ancient wisdom with modern neuroscience to help readers from all walks of life students professionals homemakers understand how their brains function and how to enhance memory focus and emotional well being It covers vital topics like neuroplasticity the brain body connection the impact of technology decision making mental health childhood brain development and even the role of

spirituality and AI A practical and inspiring guide Inside the Mind offers valuable insights for anyone seeking to live a healthier more productive and balanced life

*Gravity from the Ground Up* Bernard Schutz,2003-12-04 This book invites the reader to understand our Universe not just marvel at it From the clock like motions of the planets to the catastrophic collapse of a star into a black hole gravity controls the Universe Gravity is central to modern physics helping to answer the deepest questions about the nature of time the origin of the Universe and the unification of the forces of nature Linking key experiments and observations through careful physical reasoning the author builds the reader s insight step by step from simple but profound facts about gravity on Earth to the frontiers of research Topics covered include the nature of stars and galaxies the mysteries of dark matter and dark energy black holes gravitational waves inflation and the Big Bang Suitable for general readers and for undergraduate courses the treatment uses only high school level mathematics supplemented by optional computer programs to explain the laws of physics governing gravity

*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

*The Riddle of Gravitation* Peter Gabriel Bergmann,1992-01-01 Nonmathematical introduction to conceptual foundations of both Newton s and Einstein s theories of gravity features updated material on gravity waves singularities and other current topics 88 illustrations 1968 edition

**Vol 10: Gravitation: Adaptive Problems Book in Physics (with Detailed Solutions) for College & High School** SATYAM SIR,2021-08-01 Learn Gravitation which is divided into various sub topics Each topic has plenty of problems in an adaptive difficulty wise From basic to advanced level with gradual increment in the level of difficulty The set of problems on any topic almost covers all varieties of physics

problems related to the chapter Gravitation If you are preparing for IIT JEE Mains and Advanced or NEET or CBSE Exams this Physics eBook will really help you to master this chapter completely in all aspects It is a Collection of Adaptive Physics Problems in Gravitation for SAT Physics AP Physics 11 Grade Physics IIT JEE Mains and Advanced NEET Olympiad Level Book Series Volume 10 This Physics eBook will cover following Topics for Gravitation 1 Universal Law of Gravitation 2 Acceleration due to gravity 3 Variation of  $g$  with height 4 Variation of  $g$  with depth 5 Variation of  $g$  with rotation 6 Gravitational Field 7 Gravitational Potential 8 Gravitational Potential Energy 9 Escape velocity 10 Motion of Satellites 11 Kepler s Law 12 Chapter Test The intention is to create this book to present physics as a most systematic approach to develop a good numerical solving skill About Author Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been teaching Physics for JEE Mains and Advanced for more than 8 years He has mentored over ten thousand students and continues mentoring in regular classroom coaching The students from his class have made into IIT institutions including ranks in top 100 The main goal of this book is to enhance problem solving ability in students Sir is having hope that you would enjoy this journey of learning physics In case of query visit [www.physicsfactor.com](http://www.physicsfactor.com) or WhatsApp to our customer care number 91 7618717227

**Gravity!** Pierre Binétry,2018-04-23 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 Bin truy the book also explains the recent experimental confirmation of the existence of gravitational waves

**Gravity** George Gamow,2013-04-09 A distinguished physicist and teacher takes a reader friendly look at three scientists whose work unlocked many of the mysteries behind the laws of physics Galileo Newton and Einstein

*Gravitational Waves* Ajit Kembhavi,Pushpa Khare,2020-08-06 Gravitational waves were first predicted by Albert Einstein in 1916 a year after the development of his new theory of gravitation known as the general theory of relativity This theory established gravitation as the curvature of space time produced by matter and energy To be discernible even to the most sensitive instruments on Earth the waves have to be produced by immensely massive objects like black holes and neutron stars which are rotating around each other or in the extreme situations which prevail in the very early ages of the Universe This book presents the story of the prediction of gravitational waves by Albert Einstein the early attempts to detect the waves the development of the LIGO detector the first detection in 2016 the subsequent detections and their implications All concepts are described in some detail without the use of any mathematics and advanced physics which are needed for a full understanding of the subject The book also contains description of electromagnetism Einstein s special theory and general theory of relativity white dwarfs neutron stars and black holes and other concepts which are needed for understanding gravitational waves and their effects Also described are the LIGO

detectors and the cutting edge technology that goes into building them and the extremely accurate measurements that are needed to detect gravitational waves The book covers these ideas in a simple and lucid fashion which should be accessible to all interested readers The first detection of gravitational waves was given a lot of space in the print and electronic media So the curiosity of the non technical audience has been aroused about what gravitational waves really are and why they are so important This book seeks to answer such questions *Bryce DeWitt's Lectures on Gravitation* Bryce DeWitt,2011-06-15 Bryce DeWitt a student of Nobel Laureate Julian Schwinger was himself one of the towering figures in 20th century physics particularly renowned for his seminal contributions to quantum field theory numerical relativity and quantum gravity In late 1971 DeWitt gave a course on gravitation at Stanford University leaving almost 400 pages of detailed handwritten notes Written with clarity and authority and edited by his former student Steven Christensen these timeless lecture notes containing material or expositions not found in any other textbooks are a gem to be discovered or re discovered by anyone seriously interested in the study of gravitational physics *On Gravity* Anthony Zee,2018-04-24 A brief introduction to gravity through Einstein's general theory of relativity Of the four fundamental forces of nature gravity might be the least understood and yet the one with which we are most intimate From the months each of us spent suspended in the womb anticipating birth to the moments when we wait for sleep to transport us to other realities we are always aware of gravity In *On Gravity* physicist A Zee combines profound depth with incisive accessibility to take us on an original and compelling tour of Einstein's general theory of relativity Inspired by Einstein's audacious suggestion that spacetime could ripple Zee begins with the stunning discovery of gravity waves He goes on to explain how gravity can be understood in comparison to other classical field theories presents the idea of curved spacetime and the action principle and explores cutting edge topics including black holes and Hawking radiation Zee travels as far as the theory reaches leaving us with tantalizing hints of the utterly unknown from the intransigence of quantum gravity to the mysteries of dark matter and energy Concise and precise and infused with Zee's signature warmth and freshness of style *On Gravity* opens a unique pathway to comprehending relativity and gaining deep insight into gravity spacetime and the workings of the universe *What Gravity Is* Frank W. DuVall,2007-01-01 *The Beauty of Falling* Claudia de Rham,2024-04-02 This book explores the subject of gravity in a fresh way taking the reader from Newton to the frontiers of gravitational physics Per Einstein's general theory of relativity gravity is a manifestation of the curvature of spacetime and this is an excellent and robust framework for understanding gravity in many situations However physicists nowadays also often understand gravity as the manifestation of a fundamental particle the graviton in the same way that we understand electromagnetism as the manifestation of the photon And in the very same way that we can see light which is nothing other than an electromagnetic wave propagating through space and time we can now hear gravity in the form of gravitational waves waves in the very fabric of spacetime As we celebrate 6 years since the first direct detection of gravitational waves the reality of these waves predicted by Einstein's theory of gravity is now

unquestionable They offer a cutting edge opportunity to decipher the many mysteries that our Universe is still hiding What is the origin of the Universe What are the dark components of the Universe that explain its structure and evolution What is our fate In *The Beauty of Falling* de Rahm will explore these mysteries building up a palpable portrait of gravity what we know and don't know The book begins with the Newtonian notion of gravitational force and quickly proceeds to Einstein's theory of relativity while revealing how much more of our picture there is yet to uncover The author will emphasize that General Relativity predicts its own downfall and where the theory breaks down at the particle level is exactly where scientists are focusing in their search for new physics The author brings the reader to a new gravitational frontier and in doing so introduces her own work a theory of massive gravity While Einstein's theory of gravity assumes that the graviton is massless massive gravity suggests an alternative that the graviton may indeed have mass and a finite range meaning that it switches off at cosmological scales This would explain the current accelerating expansion of the universe that is observed The author interweaves her personal history and research trajectory throughout explaining the science but also highlighting the adventure of research the thrill of questioning nature and challenging it in its deepest realization and the excitement of discovering something entirely new The story contains setbacks and breakthroughs from the challenge of being a woman in a field where the representation of women is typically less than 10% to dealing with the aftermath of challenging the previous claims of a generation of senior scientists most of whom are men

[Gravity, Strings and Particles](#) Maurizio Gasperini, 2014-05-12 New fundamental forces of Nature New forms of dark energy Signals from epochs preceding the Big Bang Is our space time unique Only a joint study of the three topics examined in this book gravity strings and particles may provide answers to these questions Such a study may also provide the key to solving one of the most fascinating mysteries of modern science namely Besides time and the three spatial dimensions how many other dimensions exist in our universe The book is primarily addressed to readers who do not necessarily have a specific background in physics but are nevertheless interested in discovering the originality and the possible implications of some of the amazing ideas in modern theoretical physics The emphasis is on conveying ideas rather than explaining formulas focusing not on what is known but mainly on what is still unknown Many parts of the book are devoted to fundamental theoretical models and results which are potentially highly relevant for a deeper understanding of Nature but are still waiting to be confirmed or disproved by experiments From this point of view the material of this book may also be of interest to professional physicists whether or not they work in the field of fundamental interactions

**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

*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. **Reinventing**

**Gravity** John W. Moffat, 2008-09-18 A physicist presents a bold revision of Einstein's Theory of Relativity that could represent a paradigm shift not seen since Newton. Publishers Weekly. Since the 1930s, physicists have noticed an alarming discrepancy between the universe as we see it and the universe that Einstein's theory of relativity predicts. Galaxies spin so fast that, based on the amount of visible matter in them, they ought to be flung to pieces the same way a spinning yo-yo can break its string. Cosmologists tried to solve the problem by positing dark matter, a mysterious, invisible substance that surrounds galaxies, holding the visible matter in place. Particle physicists, attempting to identify the nature of the stuff, have undertaken a slew of experiments to detect it. So far, none have. Now John W. Moffat, a physicist at the Perimeter Institute for Theoretical Physics in Waterloo, Canada, offers a different solution to the problem. The capstone to a storybook career, one that began with a correspondence with Einstein and a conversation with Niels Bohr, Moffat's modified gravity theory, or MOG, can model the movements of the universe without recourse to dark matter. Beyond that, his work challenging the constancy of the speed of light raises a stark challenge to the usual models of the first half-million years of the universe's existence. Presenting the entirety of Moffat's hypothesis to a general readership for the first time, *Reinventing Gravity* promises to overturn everything we thought we knew about the origins and evolution of the universe. **Pushing Gravity** Matthew R. Edwards, 2002

*Gravitation* Pierre Fleury, 2019-11-26 This primer proposes a journey from Newton's dynamics to Einstein's relativity. It constitutes a pedagogical, rigorous, and self-contained introduction to the concepts and mathematical formulation of gravitational physics. In particular, much attention is devoted to exploring and applying the basic tools of differential

geometry that is the language of general relativity Real world manifestations of relativity such as time dilation gravitational waves and black holes are also discussed in detail This book is designed for third year bachelor or first year master students in theoretical physics who are already familiar with Newton s physics possibly had an introductory course on special relativity and who are seeking to learn general relativity on a firm basis

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