

GRAVITATION

Universal Law of Gravitation

According to Newton's universal law of gravitation, every object in the universe attracts every other object with a force, which is

- (i) Directly proportional to the product of the masses of the objects and
- (ii) Inversely proportional to the square of the distance between their centres.

$$G = \frac{F \times d^2}{M \times m}$$

The SI unit of G can be obtained by substituting the unit of force, distance and mass in equation (iii).

$$G = \frac{Nm^2}{kg \times kg}$$

$$G = Nm^2 / kg^2 \text{ or } G = Nm^2 kg^{-2}$$

Newton's third law of motion (i.e., action and reaction are always equal and opposite) applies to gravitational force as well.

Kepler's Laws of Planetary Motion

1st Law: Every planet revolves around the Sun in an elliptical orbit, with the Sun situated at any one of the foci of the ellipse.

2nd Law: In the elliptical orbit of the planet, the line joining the centre of the planet to the centre of Sun sweeps out equal areas in equal intervals of time.

3rd Law: The Square of time period of revolution of a planet around the Sun is directly proportional to the cube of the semi-major axis or the elliptical orbit.

• Newton guessed the inverse square rule $\left(\text{i.e., } F \propto \frac{1}{r^2} \right)$ using Kepler's third law of planetary motion, and assuming that orbits of planets around the Sun are circular.

Gravity is the phenomenon of attraction between Earth and any other body. Force of gravity,

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

where M is mass of Earth and m is mass of the body at a distance r from the centre of Earth.

Relation between g and G

The relation between g and G is $g = \frac{GM}{R^2}$ where M is mass of Earth and R is radius of Earth.

The value of g does not depend on mass of the body.

Three Equations of Motion under Gravity

$$v = u + gt$$

Physics Notes 1science Gravitation Chapter

Barton E. Dahneke



Physics Notes 1science Gravitation Chapter:

Principles of Astrophysics Charles Keeton, 2014-05-10 This book gives a survey of astrophysics at the advanced undergraduate level providing a physics centred analysis of a broad range of astronomical systems It originates from a two semester course sequence at Rutgers University that is meant to appeal not only to astrophysics students but also more broadly to physics and engineering students The organisation is driven more by physics than by astronomy in other words topics are first developed in physics and then applied to astronomical systems that can be investigated rather than the other way around The first half of the book focuses on gravity The theme in this part of the book as well as throughout astrophysics is using motion to investigate mass The goal of Chapters 2 11 is to develop a progressively richer understanding of gravity as it applies to objects ranging from planets and moons to galaxies and the universe as a whole The second half uses other aspects of physics to address one of the big questions While Why are we here lies beyond the realm of physics a closely related question is within our reach How did we get here The goal of Chapters 12 20 is to understand the physics behind the remarkable story of how the Universe Earth and life were formed This book assumes familiarity with vector calculus and introductory physics mechanics electromagnetism gas physics and atomic physics however all of the physics topics are reviewed as they come up and vital aspects of vector calculus are reviewed in the Appendix The Physics and Astronomy of Science Fiction Steven D. Bloom, 2016-07-06 The great scientific astronomical and technological advances of the 20th century inspired the science fiction genre to imagine distant worlds and futures far beyond the discoveries of the here and now This book explores science fiction films television series novels and short stories from Lost in Space 1965 1968 to Fringe 2008 2013 to the works of Isaac Asimov and Stephen Baxter with a focus on their underlying concepts of physics and astronomy Assessing accuracy and plausibility the author considers the possibilities of solar system interstellar and faster than light travel intelligent planets dark anti matter the multiverse and string theory time travel alternate universes teleportation and replication weaponry force fields extraterrestrial life subatomic life emotional robots super human and parapsychological powers asteroid impacts space colonies and many other topics *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

The Sounds of the Cosmos Mario Diaz, Gabriela Gonzalez, Jorge Pullin, 2023-02-28 The remarkable story of how humankind discovered gravitational waves chronicled with unparalleled historical and scientific vision In 2016 the LIGO and Virgo Collaborations made headlines when they announced the detection of gravitational waves a century after Albert Einstein first predicted their existence with his general theory of relativity With unprecedented perspective as physicists at the forefront of this discovery Mario Diaz Gabriela Gonzalez and Jorge Pullin provide a comprehensive and accessible account of the quest to find gravitational waves their controversial history and the efforts that culminated with their detection and a Nobel Prize in Physics The Sounds of the Cosmos vividly narrates contributions from the ancient Greeks through Einstein in addition to the breakthroughs of the twentieth and twenty first centuries including the discovery of the Hulse Taylor binary star system the first of its kind ever observed and the technology behind gravitational wave detectors The authors fusion of meticulous research and accessible prose makes this book an indispensable resource for the scientifically curious lending astonishing new context to the revelation that we can hear the cosmos through gravitational waves Written with exceptional historical and conceptual insight this is a definitive and dazzling journey through the eternal quest of humankind to understand the universe

Define Universe and Give Two Examples Barton E. Dahneke, 2006

On Gravity Anthony Zee, 2020-03-10 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 Publisher's website

Physics Before and After Einstein Marco Mamone

Capria, 2005 It is now a century ago that one of the icons of modern physics published some of the most influential scientific papers of all time With his work on relativity and quantum theory Albert Einstein has altered the field of physics forever It should not come as a surprise that looking back at Einstein's work one needs to rethink the whole scope of physics before and after his time This book aims to provide a perspective on the history of modern physics spanning from the late 19th century up to today It is not an encyclopaedic work but it presents the groundbreaking and sometimes provocative main contributions by Einstein as marking the line between old and new physics and expands on some of the developments and open issues to which they gave rise This presentation is not meant as a mere celebration of Einstein's work but as a critical appraisal which provides accurate historical and conceptual information The contributing authors all have a reputation for working on themes related to Einstein's work and its consequences Therefore the collection of papers gives a good representation of what happened in the 100 years after Einstein's landmark *Annalen der Physik* articles All people interested in the field of physics history of science and epistemology could benefit from this book An effort has been made to make the book attractive not only to scientists but also to people with a more basic knowledge of mathematics and physics

The Gravity of Math Steve Nadis, Shing-Tung Yau, 2024-04-16 A must read Avi Loeb New York Times bestselling author of *Extraterrestrial* One of the preeminent mathematicians of the past half century shows how physics and math were combined to give us the theory of gravity and the dizzying array of ideas and insights that has come from it Mathematics is far more than just the language of science It is a critical underpinning of nature The famed physicist Albert Einstein demonstrated this in 1915 when he showed that gravity long considered an attractive force between massive objects was actually a manifestation of the curvature or geometry of space and time But in making this towering intellectual leap Einstein needed the help of several mathematicians including Marcel Grossmann who introduced him to the geometrical framework upon which his theory rests In *The Gravity of Math* Steve Nadis and Shing Tung Yau consider how math can drive and sometimes even anticipate discoveries in physics Examining phenomena like black holes gravitational waves and the Big Bang Nadis and Yau ask Why do mathematical statements derived solely from logic provide the best descriptions of our physical world *The Gravity of Math* offers an insightful and compelling look into the power of mathematics whose reach like that of gravity can extend to the edge of the universe

Gravity Explained Alexander Tolish, 2018-07-15 Gravity causes an apple to fall to the ground and keeps the moon in orbit around Earth but it can also trap light for infinity in a dying star and ripple across the cosmos carrying the news of a massive collision between two distant black holes With accessible language and breathtaking NASA images students will explore the theory of gravity from Newton's law of universal gravitation to Einstein's general relativity and beyond This book supports the Next Generation Science Standards emphasis on scientific collection and analysis of data and evidence based theories by discussing the theoretical models scientists devise to describe gravity and the real world experiments they use to test them

The Formative Years of Relativity Hanoch Gutfreund, Jürgen

Renn,2017-09-26 First published in 1922 and based on lectures delivered in May 1921 Albert Einstein's *The Meaning of Relativity* offered an overview and explanation of the then new and controversial theory of relativity The work would go on to become a monumental classic printed in numerous editions and translations worldwide Now *The Formative Years of Relativity* introduces Einstein's masterpiece to new audiences This beautiful volume contains Einstein's insightful text accompanied by important historical materials and commentary looking at the origins and development of general relativity Hanoch Gutfreund and Jürgen Renn provide fresh original perspectives placing Einstein's achievements into a broader context for all readers In this book Gutfreund and Renn tell the rich story behind the early reception spread and consequences of Einstein's ideas during the formative years of general relativity in the late 1910s and 1920s They show that relativity's meaning changed radically throughout the nascent years of its development and they describe in detail the transformation of Einstein's work from the esoteric pursuit of one individual communicating with a handful of colleagues into the preoccupation of a growing community of physicists astronomers mathematicians and philosophers This handsome edition quotes extensively from Einstein's correspondence and reproduces historical documents such as newspaper articles and letters Inserts are featured in the main text giving concise explanations of basic concepts and short biographical notes and photographs of some of Einstein's contemporaries are included The first ever English translations of two of Einstein's popular Princeton lectures are featured at the book's end *Quantum Gravity and Quantum Cosmology* Gianluca

Calcagni, Lefteris Papantonopoulos, George Siopsis, Nikos Tsamis,2012-10-31 Quantum gravity has developed into a fast growing subject in physics and it is expected that probing the high energy and high curvature regimes of gravitating systems will shed some light on how to eventually achieve an ultraviolet complete quantum theory of gravity Such a theory would provide the much needed information about fundamental problems of classical gravity such as the initial big bang singularity the cosmological constant problem Planck scale physics and the early time inflationary evolution of our Universe While in the first part of this book concepts of quantum gravity are introduced and approached from different angles the second part discusses these theories in connection with cosmological models and observations thereby exploring which types of signatures of modern and mathematically rigorous frameworks can be detected by experiments The third and final part briefly reviews the observational status of dark matter and dark energy and introduces alternative cosmological models Edited and authored by leading researchers in the field and cast into the form of a multi author textbook at postgraduate level this volume will be of benefit to all postgraduate students and newcomers from neighboring disciplines wishing to find a comprehensive guide for their future research *Gravitation and Inertia* Ignazio Ciufolini, John Archibald

Wheeler,2018-06-26 Einstein's standard and battle tested geometric theory of gravity spacetime tells mass how to move and mass tells spacetime how to curve is expounded in this book by Ignazio Ciufolini and John Wheeler They give special attention to the theory's observational checks and to two of its consequences the predicted existence of gravitomagnetism

and the origin of inertia local inertial frames in Einstein's general relativity inertia here arises from mass there The authors explain the modern understanding of the link between gravitation and inertia in Einstein's theory from the origin of inertia in some cosmological models of the universe to the interpretation of the initial value formulation of Einstein's standard geometrodynamics and from the devices and the methods used to determine the local inertial frames of reference to the experiments used to detect and measure the dragging of inertial frames of reference In this book Ciufolini and Wheeler emphasize present past and proposed tests of gravitational interaction metric theories and general relativity They describe the numerous confirmations of the foundations of geometrodynamics and some proposed experiments including space missions to test some of its fundamental predictions in particular gravitomagnetic field or dragging of inertial frames and gravitational waves

The Evolutionary Cosmos: Outside-In Thinking the Universe Richard Westberg, Cal Orey, 2022-04-07 DISCOVER THE NEW WAY OF THINKING ABOUT OUR UNIVERSE Intriguing facts that'll surprise you Did you know Some scientists admit that they haven't made any major progress about how our Universe works for over 50 years It takes a novel approach to explain gravity as a physical phenomenon Take the journey into one and two dimensional realms of magnetism that lead to our three dimensional world Find out how eddy currents are the reasons behind cryovolcanoes on the minor planet Ceres to solar flares on the Sun Get informed about Earth threatening coronal mass ejections to global dust storms on Mars This book provides a reader friendly understanding of Einstein's theory of time dilation to Darwin's theory past and present day Enjoy close encounters of how these interesting topics and more come from outside in thinking using existing new science data and logical thinking Written from the perspective of a science enthusiast and progressive thinker flanked by a veteran Earth changes science writer this book is one of a kind A fascinating read and cutting edge findings make this gem a page turner Included are insightful theories to down to earth interesting anecdotes along with must have tools for you to find out more about Outer space A candid and witty must read The Evolutionary Cosmos deserves two thumbs up for dishing out fresh ideas about the ever changing Universe This is a timeless gift book for anyone of any age

Hypothetical Spacecraft and Interstellar Travel Ezekiel Nygren, 2015-02-28 Hypothetical Spacecraft and Interstellar Travel collects information about the latest and greatest hypothetical spacecraft

The Curious History of Relativity Jean Eisenstaedt, 2018-06-05 Black holes may obliterate most things that come near them but they saved the theory of general relativity Einstein's theory was quickly accepted as the true theory of gravity after its publication in 1915 but soon took a back seat in physics to quantum mechanics and languished for decades on the blackboards of mathematicians Not until the existence of black holes by Stephen Hawking and Roger Penrose in the 1960s after Einstein's death was the theory revived Almost one hundred years after general relativity replaced Newton's theory of gravitation The Curious History of Relativity tells the story of both events surrounding general relativity and the techniques employed by Einstein and the relativists to construct develop and understand his almost impenetrable theory Jean Eisenstaedt one of the world's leading experts on the

subject also discusses the theory's place in the evolution of twentieth century physics. He describes the main stages in the development of general relativity: its beginnings, its strange crossing of the desert during Einstein's lifetime while under heated criticism, and its new life from the 1960s on when it became vital to the understanding of black holes and the observation of exotic objects and eventually to the discovery of the accelerating universe. We witness Einstein's construction of his theory as well as the work of his fascinated, discouraged and enthusiastic colleagues: physicists, mathematicians and astronomers. Written with flair, *The Curious History of Relativity* poses and answers the difficult questions raised by Einstein's magnificent intellectual feat. *Gravity: From Falling Apples to Supermassive Black Holes* Nicholas Mee, 2022-11-18

Includes exciting recent advances in studying gravity and its cosmic manifestations. Lord Martin Rees, Astronomer Royal, former President of the Royal Society. A fascinating historical account of how we have reached our current understanding of gravity. There have been sensational developments in gravitational physics in recent years. The detection of gravitational waves, ripples in the fabric of space, has opened a new window on the universe. These waves are produced by the most cataclysmic events in the universe: the collisions and mergers of black holes and neutron stars. There have also been great strides in our understanding of supermassive black holes. We now know that a black hole with a gargantuan mass lies at the heart of every galaxy, and we even have an image of one such beast. *Gravity: From Falling Apples to Supermassive Black Holes* provides an engaging and accessible account of how we have reached our current understanding of gravity and places these amazing discoveries in their true context. *Gravity: From Falling Apples to Supermassive Black Holes* is written in a captivating historical style with stories about the researchers of the past and present that illuminate many key ideas in astronomy and physics. The historical material leads from discussions of the early cosmologies to the great breakthroughs of Tycho and Kepler. We then consider Galileo's contributions to astronomy and mechanics and the significance of Jeremiah Horrocks's ideas to the Newtonian revolution that would follow. Newton's theories brought about a new scientific age, and his description of gravity was unrivalled for over two centuries until it was superseded by Einstein's description in terms of curved spacetime. The outlandish predictions of Einstein's theory have been confirmed again and again, including black holes and gravitational waves. Finally, we move on to more speculative ideas, including Hawking radiation and primordial black holes, and attempts to find a quantum theory of gravity. *New Paths Towards Quantum Gravity* Bernhelm

Boß-Bavnbek, Giampiero Esposito, Matthias Lesch, 2010-07-23. Aside from the obvious statement that it should be a theory capable of unifying general relativity and quantum field theory, not much is known about the true nature of quantum gravity. New ideas, and there are many of them, for this is an exciting field of research, often diverge to a degree where it seems impossible to decide in which of the many possible directions the ongoing developments should be further sustained. The division of the book in two overlapping parts reflects the duality between the physical vision and the mathematical construction. The former is represented by tutorial reviews on non-commutative geometry, on space-time discretization and

renormalization and on gauge field path integrals The latter one by lectures on cohomology on stochastic geometry and on mathematical tools for the effective action in quantum gravity The book will benefit everyone working or entering the field of quantum gravity research **The American Mathematical Monthly** ,1980 **Einstein in Bohemia** Michael D.

Gordin,2022-02-22 Though Einstein is undoubtedly one of the most important figures in the history of modern science he was in many respects marginal Despite being one of the creators of quantum theory he remained skeptical of it and his major research program while in Princeton the quest for a unified field ultimately failed In this book Michael Gordin explores this paradox in Einstein s life by concentrating on a brief and often overlooked interlude his tenure as professor of physics in Prague from April of 1911 to the summer of 1912 Though often dismissed by biographers and scholars it was a crucial year for Einstein both personally and scientifically his marriage deteriorated he began thinking seriously about his Jewish identity for the first time he attempted a new explanation for gravitation which though it failed had a significant impact on his later work and he met numerous individuals including Max Brod Hugo Bergmann Philipp Frank and Arno t Kolman who would continue to influence him In a kind of double biography of the figure and the city this book links Prague and Einstein together Like the man the city exhibits the same paradox of being both central and marginal to the main contours of European history It was to become the capital of the Czech Republic but it was always compared to Vienna and Budapest less central in the Habsburg Empire Moreover it was home to a lively Germanophone intellectual and artistic scene though the vast majority of its population spoke only Czech By emphasizing the marginality and the centrality of both Einstein and Prague Gordin sheds new light both on Einstein s life and career and on the intellectual and scientific life of the city in the early twentieth century

Effective Spacetime Karen Crowther,2016-07-07 This book discusses the notion that quantum gravity may represent the breakdown of spacetime at extremely high energy scales If spacetime does not exist at the fundamental level then it has to be considered emergent in other words an effective structure valid at low energy scales The author develops a conception of emergence appropriate to effective theories in physics and shows how it applies or could apply in various approaches to quantum gravity including condensed matter approaches discrete approaches and loop quantum gravity

Decoding **Physics Notes 1science Gravitation Chapter**: Revealing the Captivating Potential of Verbal Expression

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