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

- 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).

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

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

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 $\left(i.e., F \propto \frac{1}{r^2}\right)$ 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, $F = \frac{G \, mM}{r^2}$

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

$$v = u + gt$$

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Anthony Zee

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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 **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 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 Science Between Myth and History José G. Perillán, 2021 Science Between Myth and History explores scientific storytelling and its implications on the teaching practice and public perception of science In communicating their science scientists tend to use historical narratives for important rhetorical purposes This text explores the implications of doing this 1500+ MCOs with Explanatory Notes For GENERAL SCIENCE Disha Experts, 2018-03-31 The book 1500 MCQs with Explanatory Notes For GENERAL SCIENCE has been divided into 6 chapters which have been further divided into 29 Topics containing 1500 Multiple Choice Questions for Quick Revision and Practice The Unique Selling Proposition of the book is the explanation to each and every question which provides additional info to the students on the subject of the questions and correct reasoning wherever required The questions have been selected on the basis of the various types of questions being asked in the various exams Gravity's <u>Kiss</u> Harry Collins, 2018-03-02 A fascinating account written in real time of the unfolding of a scientific discovery the first detection of gravitational waves Scientists have been trying to confirm the existence of gravitational waves for fifty years

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The Singularity Uziel Awret,2016-11-23 This volume represents the combination of two special issues of the Journal of Consciousness Studies on the topic of the technological singularity Could artificial intelligence really out think us and what would be the likely repercussions if it could Leading authors contribute to the debate which takes the form of a target chapter by philosopher David Chalmers plus commentaries from the likes of Daniel Dennett Nick Bostrom Ray Kurzweil Ben Goertzel Frank Tipler among many others Chalmers then responds to the commentators to round off the discussion *New Paths Towards Quantum Gravity* Bernhelm Booß-Bavnbek,Maria Rosaria D'Esposito,Matthias Lesch,2010-06-04 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 direction s 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

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Table of Contents Physics Notes 12 Science Gravitation Chapter

- 1. Understanding the eBook Physics Notes 12 Science Gravitation Chapter
 - The Rise of Digital Reading Physics Notes 12 Science Gravitation Chapter
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Physics Notes 12 Science Gravitation Chapter
 - 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
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physics Notes 12 Science Gravitation Chapter
 - Personalized Recommendations
 - $\circ\,$ Physics Notes 12 Science Gravitation Chapter User Reviews and Ratings
 - Physics Notes 12 Science Gravitation Chapter and Bestseller Lists
- 5. Accessing Physics Notes 12 Science Gravitation Chapter Free and Paid eBooks
 - Physics Notes 12 Science Gravitation Chapter Public Domain eBooks
 - Physics Notes 12 Science Gravitation Chapter eBook Subscription Services
 - Physics Notes 12 Science Gravitation Chapter Budget-Friendly Options

- 6. Navigating Physics Notes 12 Science Gravitation Chapter eBook Formats
 - o ePub, PDF, MOBI, and More
 - Physics Notes 12 Science Gravitation Chapter Compatibility with Devices
 - Physics Notes 12 Science Gravitation Chapter Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Notes 12 Science Gravitation Chapter
 - Highlighting and Note-Taking Physics Notes 12 Science Gravitation Chapter
 - Interactive Elements Physics Notes 12 Science Gravitation Chapter
- 8. Staying Engaged with Physics Notes 12 Science Gravitation Chapter
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Notes 12 Science Gravitation Chapter
- 9. Balancing eBooks and Physical Books Physics Notes 12 Science Gravitation Chapter
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Notes 12 Science Gravitation Chapter
- 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
 - Setting Reading Goals Physics Notes 12 Science Gravitation Chapter
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics Notes 12 Science Gravitation Chapter
 - Fact-Checking eBook Content of Physics Notes 12 Science Gravitation Chapter
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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