

GRAVITATION

* Gravitational force :

- Every matter attract every other matter.
- Central force
- Conservative force
- Long range force
- Quant depend on medium.

$$\vec{F}_{12} = -\vec{F}_{21} = \frac{G M_1 M_2}{r^2}$$

* Newton's law of Gravitation


- only valid for point mass and spherical mass system.

$G \rightarrow$ Gravitational constant
 $G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$

* Superposition theorem

- Force bet^o 2 object doesn't depend on presence of other object.

$$\vec{F}_{net} = \vec{F}_1 + \vec{F}_2 + \vec{F}_3 + \dots$$




$$\vec{F}_{net} = \vec{F}_1 + \vec{F}_2 + \vec{F}_3 + \dots$$

$$= \frac{Gmm_1}{r_1^2} + \frac{Gmm_2}{r_2^2} + \frac{Gmm_3}{r_3^2} + \dots$$

G.P. Series

$$\frac{a}{1-r} = \frac{Gm^2}{1-\frac{1}{4}} = \frac{4}{3} Gm^2$$

* M, R Hollow sphere



$$F = \frac{G M m}{(R+r)^2}$$

$F_{\text{inside}} = 0$

* Solid sphere



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

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

$$M' = \frac{4}{3} \pi R^3 \rho$$

$$M' = \frac{M r^3}{R^3}$$

$$F = \frac{G M' m}{r^2} = \frac{G M m r^3}{R^3 r^2}$$

$$F_{\text{at } r} = \frac{G M m r}{R^3} \quad F_{\text{surface } R^2} = \frac{G M m}{R^2}$$



$$F_{\text{net}} = 0$$

$$\alpha = \frac{d}{\sqrt{R^2 - 1}}$$




$$F = \frac{G M m}{d(d+L)}$$

* Gravitational field intensity (Grav. force on unit mass)

$$\vec{I} = \lim_{m \rightarrow 0} \frac{\vec{F}}{m}$$

$m_0 \rightarrow \text{test mass}$


(i) due to point mass



$$I = \frac{F}{m_0} \Rightarrow I = -\frac{GM}{r^2}$$

$I \propto \frac{1}{r^2}$

(ii) due to hollow sphere




$$I_{\text{outside}} = -\frac{GM}{r^2}$$

$$I_{\text{surface}} = -\frac{GM}{R^2}$$

$$I_{\text{inside}} = 0$$

$I \propto \frac{1}{r^2}$

(iii) Solid sphere




$$I_{\text{outside}} = -\frac{GM}{r^2}$$

$$I_{\text{surface}} = -\frac{GM}{R^2}$$

$$I_{\text{inside}} = -\frac{GM r}{R^3}$$

$I \propto \frac{1}{r^2}$

(iv) Axis of ring



$$I = \frac{G M m}{(R^2 + x^2)^{3/2}}$$

$\alpha \ll R$

$$I = \frac{G M \alpha}{R^3}$$

$\alpha \gg R$

$$I = \frac{G M}{\alpha^2}$$

$\alpha = R/2$

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Transverse Waves Questions Chapter 34 Two and Three Dimensional Motion Questions Chapter 35 Vector Quantities Questions Chapter 36 Work Kinetic Energy Theorem Questions The Alternating Fields and Currents Quiz Questions PDF e Book Chapter 1 interview questions and answers 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 Quiz Questions PDF e Book Chapter 2 interview questions and answers 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 Quiz Questions PDF e Book Chapter 3 interview questions and answers on Capacitor in parallel and in series capacitor with dielectric charging a capacitor cylindrical capacitor parallel plate capacitor The Circuit Theory Quiz Questions PDF e Book Chapter 4 interview questions and answers on Loop and junction rule power series and parallel resistances single loop circuits work energy and EMF The Conservation of Energy Quiz Questions PDF e Book Chapter 5 interview questions and answers 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 Quiz Questions PDF e Book Chapter 6 interview questions and answers on Charge is conserved charge is quantized conductors and insulators and electric charge The Current Produced Magnetic Field Quiz Questions PDF e Book Chapter 7 interview questions and answers on Ampere s law and law of Biot Savart The Electric Potential Energy Quiz Questions PDF e Book Chapter 8 interview questions and answers on Introduction to electric potential energy electric potential and equipotential surfaces The Equilibrium Indeterminate Structures Quiz Questions PDF e Book Chapter 9 interview questions and answers 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 Quiz Questions PDF e Book Chapter 10 interview questions and answers on Electric field electric field due to continuous charge distribution electric field lines flux and Gauss law The First Law of Thermodynamics Quiz Questions PDF e Book Chapter 11 interview questions and answers 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 Quiz Questions PDF e Book Chapter 12 interview questions and answers on Archimedes principle

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Topological Geometrodynamics Matti Pitkanen, 2006-05 Topological Geometrodynamics is a modification of general relativity inspired by the conceptual problems related to the definitions of inertial and gravitational energy in general relativity Topological geometrodynamics can be also seen as a generalization of super string models Physical space times are seen as four dimensional surfaces in certain eight dimensional space The choice of this space is fixed by symmetries of the standard model so that geometrization of known classical fields and elementary particle quantum numbers results The notion of many sheeted space time allows re interpretation of the structures of perceived world in terms of macroscopic space time topology The generalization of the number concept based on fusion of real numbers and p adic number fields implies a further generalization of the space time concept allowing to identify space time correlates of cognition and intentionality Quantum measurement theory extended to a quantum theory of consciousness becomes an organic part of theory A highly

non trivial prediction is the existence of a fractal hierarchy of copies of standard model physics with dark matter identified in terms of macroscopic quantum phases characterized by dynamical and quantized Planck constant The book is a comprehensive overview and analysis of topological geometrodynamics as a mathematical and physical theory

Learning Disabilities Phakkharawat Sittiprapaporn, 2012-03-14 Learning disability is a classification that includes several disorders in which a person has difficulty learning in a typical manner Depending on the type and severity of the disability interventions may be used to help the individual learn strategies that will foster future success Some interventions can be quite simplistic while others are intricate and complex This book deserves a wide audience it will be beneficial not only for teachers and parents struggling with attachment or behavior issues but it will also benefit health care professionals and therapists working directly with special needs such as sensory integration dysfunction

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Table of Contents Gravitation Study Guide Answers Gravitation

1. Understanding the eBook Gravitation Study Guide Answers Gravitation
 - The Rise of Digital Reading Gravitation Study Guide Answers Gravitation
 - Advantages of eBooks Over Traditional Books
2. Identifying Gravitation Study Guide Answers Gravitation
 - 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 Gravitation Study Guide Answers Gravitation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gravitation Study Guide Answers Gravitation
 - Personalized Recommendations

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

- 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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