

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.

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



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

at $x=0$

$$= \frac{Gmm^2}{(1)^2} + \frac{Gmm^2}{(2)^2} + \frac{Gmm^2}{(3)^2} + \dots$$

G.P. Series

$$\frac{\frac{Gm^3}{1} \cdot \frac{1}{1-x}}{1-x} = \frac{Gm^3}{1-x} = \frac{4}{3} Gm^3$$

* M, R Hollow sphere



$$F = \frac{G M m m_1}{(R + r)^2}$$

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

* Solid sphere



$$F = \frac{G M m m_1}{(R + r)^2}$$

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

$$M' = \rho V$$

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

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

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



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

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



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

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

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

$m_0 \rightarrow \text{test mass}$

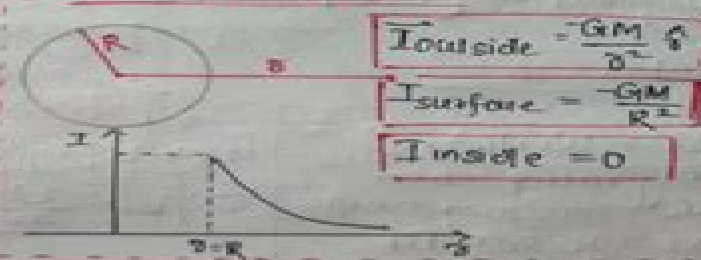
(i) due to point mass



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

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

(ii) due to hollow sphere

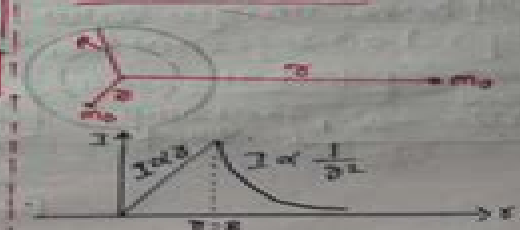


$$I_{\text{outside}} = -\frac{GM}{r^2}$$

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

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

(iii) Solid sphere

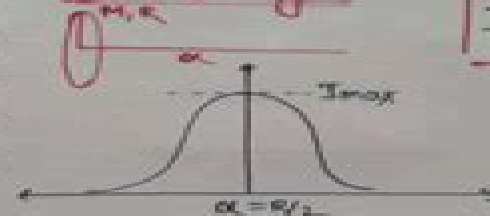


$$I_{\text{outside}} = -\frac{GM}{r^2}$$

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

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

(iv) Axis of ring



$$I_{\text{max}}$$

$$\alpha = R/2$$

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

$$\alpha \ll R$$

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

$$\alpha \gg R$$

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

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

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

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

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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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web luckily dav loved to draw and make up stories he spent his time in the hallway creating his own original comic books in the second grade dav pilkey made a comic book about a superhero named captain underpants since then he has been creating books that explore universally positive themes celebrating the triumph of the good hearted

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