

GRAVITATION

* Gravitational force :

- Every matter attract every other matter.
- Central force
- Conservative force
- Long range force
- doesn't 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 betⁿ 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 a point

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

GP Series

$$\frac{\frac{Gm^2}{1} \cdot \frac{1}{1-x}}{1-x} = \frac{Gm^2}{1-\frac{1}{4}} = \frac{4}{3} Gm^2$$

* M, R, Hollow sphere



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

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

* Solid sphere



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

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

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

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

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

$$F_{\text{surface}} = \frac{G M m}{R^2}$$



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

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



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

* 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



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

$\alpha \ll R$

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

$\alpha \gg R$

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

$\alpha = R/2$

Study Guide Gravitation Physics Principles And Problems

David Halliday, Jearl Walker, Robert Resnick



Study Guide Gravitation Physics Principles And Problems:

Study Guide to Accompany Physics: Principles and Insights Ira Maximilian Freeman, 1973 *A Student's Guide Through the Great Physics Texts* Kerry Kuehn, 2014-09-15 This book provides a chronological introduction to the sciences of astronomy and cosmology based on the reading and analysis of significant selections from classic texts such as Ptolemy's *The Almagest* Kepler's *Epitome of Copernican Astronomy* Shapley's *Galaxies* and Lemaître's *The Primeval Atom* Each chapter begins with a short introduction followed by a reading selection Carefully crafted study questions draw out key points in the text and focus the reader's attention on the author's methods analysis and conclusions Numerical and observational exercises at the end of each chapter test the reader's ability to understand and apply key concepts from the text *The Heavens and the Earth* is the first of four volumes in *A Student's Guide Through the Great Physics Texts* This book grew out of a four semester undergraduate physics curriculum designed to encourage a critical and circumspect approach to natural science while at the same time preparing students for advanced coursework in physics This book is particularly suitable as a college level textbook for students of the natural sciences history or philosophy It also serves as a textbook for advanced high school students or as a thematically organized source book for scholars and motivated lay readers In studying the classic scientific texts included herein the reader will be drawn toward a lifetime of contemplation [Class 9 Physics Questions and Answers PDF](#) Arshad Iqbal, *The Class 9 Physics Quiz Questions and Answers PDF* Grade 9 Physics Competitive Exam Questions Chapter 1 9 Practice Tests Class 9 Physics Textbook Questions for Beginners includes revision guide for problem solving with hundreds of solved questions Class 9 Physics Questions and Answers PDF book covers basic concepts analytical and practical assessment tests Class 9 Physics Quiz PDF book helps to practice test questions from exam prep notes The Grade 9 Physics Quiz Questions and Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved tests Class 9 Physics Questions and Answers PDF Free download chapter 1 a book covers solved common questions and answers on chapters Dynamics gravitation kinematics matter properties physical quantities and measurement thermal properties of matter transfer of heat turning effect of forces work and energy tests for school and college revision guide Physics Interview Questions and Answers PDF Download free eBook's sample covers beginner's solved questions textbook's study notes to practice online tests The Class 9 Physics Interview Questions Chapter 1 9 PDF book includes high school question papers to review practice tests for exams Class 9 Physics Practice Tests a textbook's revision guide with chapters tests for NEET MCAT SAT ACT GATE IPhO competitive exam 9th Grade Physics Questions Bank Chapter 1 9 PDF book covers problem solving exam tests from physics textbook and practical eBook chapter wise as Chapter 1 Dynamics Questions Chapter 2 Gravitation Questions Chapter 3 Kinematics Questions Chapter 4 Matter Properties Questions Chapter 5 Physical Quantities and Measurement Questions Chapter 6 Thermal Properties of Matter Questions Chapter 7 Transfer of Heat Questions Chapter 8 Turning Effect of Forces Questions Chapter 9 Work and Energy Questions The Dynamics Quiz Questions

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