

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.

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

Diagram showing masses m_1, m_2, m_3, m_4 in a line. $\vec{F}_{net} = \vec{F}_1 + \vec{F}_2 + \vec{F}_3 + \dots$ (at m_1)

$$= \frac{G m_1 m_2}{(1)^2} + \frac{G m_1 m_3}{(2)^2} + \frac{G m_1 m_4}{(3)^2} + \dots$$

GP Series

$$\frac{\frac{G m_1^2}{1^2}}{1 - \frac{1}{4}} = \frac{G m_1^2}{1 - \frac{1}{4}} = \frac{4}{3} G m_1^2$$

* M, R Hollow sphere

Diagram of a hollow sphere of radius R and mass M . A point mass m is at distance r from the center.

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

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

* Solid sphere

Diagram of a solid sphere of radius R and mass M . A point mass m is at distance r from the center.

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

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

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

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

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

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

Diagram showing a hollow sphere of radius R and mass M . A point mass m is at distance d from the center. The force $F_{\text{net}} = 0$.

$$\alpha = \frac{d}{4R} - 1$$

Diagram showing a solid sphere of radius R and mass M . A point mass m is at distance d from the center. The force $F = \frac{G M m}{d(d+L)}$.

* 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

Diagram showing a point mass M and a test mass m_0 at distance r . The force $F = \frac{G M m_0}{r^2}$.

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

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

(ii) due to hollow sphere

Diagram of a hollow sphere of radius R and mass M . A point mass m_0 is at distance r from the center.

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

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

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

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

(iii) Solid sphere

Diagram of a solid sphere of radius R and mass M . A point mass m_0 is at distance r from the center.

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

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

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

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

(iv) Axis of ring

Diagram of a ring of radius R and mass M . A point mass m is at distance x from the center.

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

$\alpha \ll R$

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

$\alpha \gg R$

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

$\alpha = R/2$

Study Guide Gravitation Answer Key

Jianjun Gao



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Study Guide Gravitation Answer Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. Study Guide Gravitation Answer Key :

Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a masterful and thrilling novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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