

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 → 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

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

* M, R Hollow sphere



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

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

* Solid sphere



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

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

$$M' = \rho V$$

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

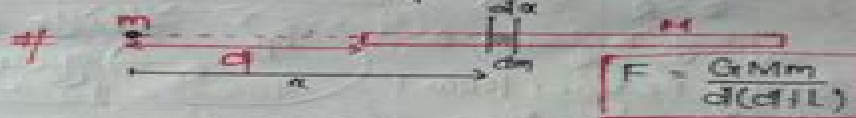
$$F = \frac{G M' m}{r^2} = \frac{G M m r^3}{R^3 r^2}$$

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



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

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



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

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

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

m_0 → test mass

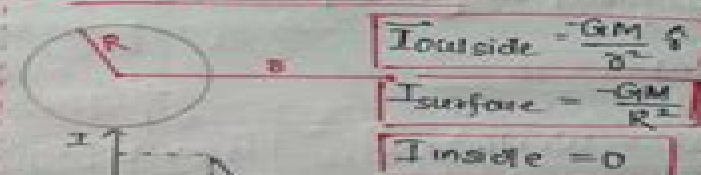
(i) due to point mass



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

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

(ii) due to hollow sphere



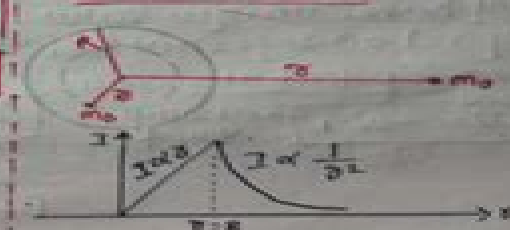
$$I_{\text{outside}} = -\frac{GM}{r^2}$$

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

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



(iii) Solid sphere



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

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

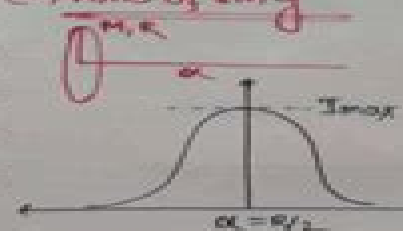
$$I_{\text{inside}} = -\frac{GM r}{R^3}$$

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

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

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

(iv) Axis of ring



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

$$\alpha = R/2$$

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

$$\alpha \ll R$$

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

$$\alpha \gg R$$

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

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O García



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web gigot de chevreuil au lard avec des légumes et des knödel cuisine allemande joachim beuckelaer 1560 1565 de manière générale la nourriture désigne les aliments d origine animale végétale fongique parfois bactérienne ou minérale ou chimique consommés par des êtres vivants à des fins d alimentation mais il existe aussi une nourriture festive ou

pour une histoire de l'alimentation en Afrique avant le XX^e - Jul 02 2022

web 1 voir par exemple T. Lewicki 1974. Ce dossier se veut un dernier état de l'avancement des connaissances sur la construction sociale et culturelle des pratiques alimentaires en Afrique avant le XX^e siècle. L'histoire de l'alimentation est de façon générale un champ relativement jeune désormais renouvelé par sa rencontre avec l'histoire de la