

FORMULAE IN PHYSICS STD. XII

Chapter 1: Rotational Dynamics

- (1) In uniform circular motion,
 - (a) Angular displacement $(\theta) = \frac{\text{Arc length (s)}}{\text{Radius (r)}}$
 - (b) Angular speed $(\omega) = \frac{\theta}{t}$ or $\vec{\omega} = \frac{d\theta}{dt}$
 - (c) Angular acceleration $(\alpha) = \frac{\omega}{t}$ or $\vec{\alpha} = \frac{d\vec{\omega}}{dt}$
 - (d) For one complete revolution $\theta = 2\pi$ and $t = T$ $\therefore \omega = \frac{2\pi}{T} = 2\pi n$
 - (e) Frequency = $\frac{1}{\text{Period}}$ i.e. $n = \frac{1}{T}$ or $T = \frac{1}{n}$
- (2) Linear velocity = Radius $\times$ Angular velocity i.e. $v = r\omega$
- (3) The magnitude of the centripetal acceleration, $a_r = \frac{v^2}{r} = r\omega^2$
- (4) The magnitude of the centripetal force (C.P.F.), $F = \frac{mv^2}{r} = mr\omega^2$
- (5) The magnitude of the centrifugal force (C.F.F.), $F = \frac{mv^2}{r} = mr\omega^2$
- (6) **Maximum and minimum speed:**
 - (a) Maximum speed of vehicle on plane horizontal road,

$$v_{\max} = \sqrt{\mu_s rg} \quad \text{where, } \mu_s = \text{coefficient of static friction.}$$
 - (b) For well of death minimum speed of vehicle, $v_{\min} = \sqrt{\frac{rg}{\mu_s}}$
 - (c) For Banked road,
 - (i) Most safe speed $(v_s) = \sqrt{rg \tan \theta}$
 - (ii) Banking angle $(\theta) = \tan^{-1} \left(\frac{v^2}{rg} \right)$
- (7) **Conical pendulum:**
 - (a) The period of conical pendulum of length (l) at semi vertical angle (θ) is $T = 2\pi \sqrt{\frac{l \cos \theta}{g}}$ or $T = 2\pi \sqrt{\frac{r}{g \tan \theta}}$
 - (b) Frequency of conical pendulum, $n = \frac{1}{2\pi} \sqrt{\frac{g}{l \cos \theta}}$ or $n = \frac{1}{2\pi} \sqrt{\frac{g \tan \theta}{r}}$
 - (c) If θ is small $\cos \theta \approx 1$. $\therefore$ Period $(T) = 2\pi \sqrt{\frac{l}{g}}$
- (8) Vehicle at the top of a convex over bridge, $v_{\text{at top}} = \sqrt{rg}$

Notes For 12 Std Chapter Circular Motion

**Barbara Lauritsen Christensen, Elaine
Oden Kockrow**



Notes For 12 Std Chapter Circular Motion:

Unveiling the Magic of Words: A Review of "**Notes For 12 Std Chapter Circular Motion**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Notes For 12 Std Chapter Circular Motion**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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