

displacement with time is called wave form of SHM.

Instantaneous displacement:-

The distance of vibrating body at any instant from its mean position is called instantaneous displacement.

Amplitude

Maximum displacement of vibrating body from mean position is called Amplitude.

Vibration

One complete round trip of a body about its mean position is called vibration.

Time period

Time require to complete one vibration is called Time period.

Frequency

Number of vibrations in one second by a vibrating body is called frequency.

$$f = \frac{1}{T}$$

Unit of frequency is Hertz (Hz).

Angular frequency

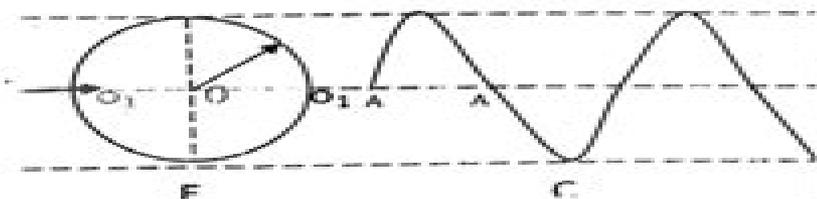
If T is the time period of a body executing SHM then its angular frequency ω is defined as

$$\omega = \frac{2\pi}{T} \quad \text{or}$$

$$\omega = 2\pi f$$

Q:- Show that motion of projection of a body moving along a circular path is SHM.

Consider a mass m attached with the end of a vertically suspended spring. It vibrates with period T, frequency f and amplitude x_0 . The motion of the mass is displayed by a pointer P_1 .



At $t=0$ pointer is at position A then at position B, A, C and back to A at instant $\frac{T}{4}, \frac{T}{2}, \frac{3T}{4}$ and T respectively.

In circular motion, we consider motion of point N which is the projection of P along diameter DE.

Let point P is at O_1 at $t=0$ and projection N at instants $0, \frac{T}{4}, \frac{T}{2}, \frac{3T}{4}$ and T will be at O, D, O, E, O respectively.

Comparison of motion of N and P_1 shows that it is a copy of pointer motion. Hence the motion of projection of particle P moving in a circle is SHM.

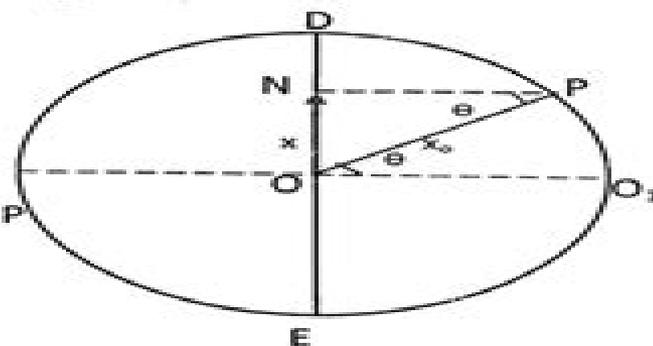
Q:- Derive relations for the followings:

(1- Instantaneous displacement

Let N be the projection of a particle P moving in a circle of radius x_0 with angular frequency ω as shown in figure.

Here

$$\theta = \omega t$$



In triangle ONP

$$\sin \theta = \frac{\text{perp}}{\text{hypot}}$$

$$\sin \theta = \frac{|ON|}{|OP|}$$

$$|ON| = |OP| \sin \theta$$

$$x = x_0 \sin \theta$$

$$x = x_0 \sin \omega t$$

This shows the displacement of point N at instant t.

Values of θ

- 1- At the start of cycle $\theta=0^\circ$
- 2- When first quarter of cycle is completed $\theta=\frac{\pi}{2}$
- 3- When half of the cycle is completed $\theta=\pi$
- 4- when three fourth of cycle is completed $\theta=\frac{3\pi}{2}$
- 5- For complete cycle $\theta=2\pi$

Hsc Physics Oscillation Chapter Notes

Zhe Xu



Hsc Physics Oscillation Chapter Notes:

Hsc Physics Oscillation Chapter Notes: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have charmed audiences this year.

Hsc Physics Oscillation Chapter Notes : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph.

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.

Hsc Physics Oscillation Chapter Notes : Delia Owens "Where the Crawdads Sing" This evocative 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, entrancing readers with its evocative prose and mesmerizing setting. These bestselling 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 captivating stories waiting to be discovered.

The novel begins with Richard Papan, 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 an exceptional and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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