

FORMULAE IN PHYSICS STD. XII

Chapter 1: Rotational Dynamics

(1) In uniform circular motion,

(a) Angular displacement (θ) = $\frac{\text{Arc length (s)}}{\text{Radius (r)}}$
i.e. $\theta = \frac{s}{r}$ or $s = r\theta$

(b) Angular speed (ω) = $\frac{\theta}{t}$ or $\vec{\omega} = \frac{d\theta}{dt}$
where θ = angular displacement in time t

(c) Angular acceleration (α) = $\frac{\omega}{t}$ 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 $T = \frac{1}{n}$

(f) For one revolution,

$$\text{Period (T)} = \frac{2\pi r}{v} \quad \text{or} \quad T = \frac{2\pi}{\omega}$$

(2) Linear velocity = Radius $\times$ angular velocity

$$v = r\omega$$

(3) The magnitude of the centripetal acceleration (a_c)

$$a_c = \frac{v^2}{r} = r\omega^2$$

(4) The magnitude of the centripetal force (F)

$$\text{C.P.F} = \frac{mv^2}{r} = mr\omega^2$$

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Table of Contents Hsc Physics Chapters Pune

1. Understanding the eBook Hsc Physics Chapters Pune
 - The Rise of Digital Reading Hsc Physics Chapters Pune
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Physics Chapters Pune
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hsc Physics Chapters Pune
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Physics Chapters Pune
 - Personalized Recommendations
 - Hsc Physics Chapters Pune User Reviews and Ratings

- Hsc Physics Chapters Pune and Bestseller Lists
- 5. Accessing Hsc Physics Chapters Pune Free and Paid eBooks
 - Hsc Physics Chapters Pune Public Domain eBooks
 - Hsc Physics Chapters Pune eBook Subscription Services
 - Hsc Physics Chapters Pune Budget-Friendly Options
- 6. Navigating Hsc Physics Chapters Pune eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Physics Chapters Pune Compatibility with Devices
 - Hsc Physics Chapters Pune Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Physics Chapters Pune
 - Highlighting and Note-Taking Hsc Physics Chapters Pune
 - Interactive Elements Hsc Physics Chapters Pune
- 8. Staying Engaged with Hsc Physics Chapters Pune
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Physics Chapters Pune
- 9. Balancing eBooks and Physical Books Hsc Physics Chapters Pune
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Physics Chapters Pune
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Physics Chapters Pune
 - Setting Reading Goals Hsc Physics Chapters Pune
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Physics Chapters Pune
 - Fact-Checking eBook Content of Hsc Physics Chapters Pune
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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