

## # Simple Harmonic Motion :

30.01.2023,

$$F = -ky \text{ --- (i)}$$

$$F = ma' \text{ --- (ii)}$$

$$ma' = -ky$$

$$a' = \frac{-ky}{m} \text{ --- (iii)}$$

$$a' = \frac{d^2y}{dt^2}$$

$$\therefore \text{ (iii) } \Rightarrow \frac{d^2y}{dt^2} = -\frac{ky}{m}$$

$$\text{or, } m \frac{d^2y}{dt^2} = -ky$$

$$\text{or, } m \frac{d^2y}{dt^2} + ky = 0$$

$$\text{or, } \boxed{\frac{d^2y}{dt^2} + \frac{ky}{m} = 0}$$

$$\text{or, } \boxed{\frac{d^2y}{dt^2} + \omega^2 y = 0}$$

$$v = \frac{dy}{dt} \quad a = \frac{dv}{dt} = \frac{d^2y}{dt^2}$$



$$\omega^2 = \frac{k}{m}$$

$$\text{or, } \omega = \sqrt{\frac{k}{m}}$$

## # general resolution of differential equation of simple harmonic motion :-

$$\frac{d^2y}{dt^2} = -\omega^2 y \text{ --- (i)}$$

multiply by  $2 \frac{dy}{dt}$  -

$$2 \frac{dy}{dt} \cdot \frac{d^2y}{dt^2} = -\omega^2 y \cdot 2 \frac{dy}{dt}$$

$$\text{or, } 2 \frac{dy}{dt} \frac{d^2y}{dt^2} = -2\omega^2 y \frac{dy}{dt}$$

$$\text{or, } \left(\frac{dy}{dt}\right)^2 = -\omega^2 y^2 + c \text{ --- (ii) [Integration] } \left| \frac{d}{dt} \left\{ \left(\frac{dy}{dt}\right)^2 \right\} = 2 \frac{dy}{dt} \cdot \frac{d^2y}{dt^2} \right|$$

At maximum displacement (when  $y = a$ )

$$\frac{dy}{dt} = 0$$

$$\text{or, } 0 = -\omega^2 a^2 + c$$

$$\text{or, } c = \omega^2 a^2$$

# Texas Physics Sem 1

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### **Table of Contents Texas Physics Sem 1**

1. Understanding the eBook Texas Physics Sem 1
  - The Rise of Digital Reading Texas Physics Sem 1
  - Advantages of eBooks Over Traditional Books
2. Identifying Texas Physics Sem 1
  - 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 Texas Physics Sem 1
  - User-Friendly Interface
4. Exploring eBook Recommendations from Texas Physics Sem 1
  - Personalized Recommendations
  - Texas Physics Sem 1 User Reviews and Ratings

- Texas Physics Sem 1 and Bestseller Lists
- 5. Accessing Texas Physics Sem 1 Free and Paid eBooks
  - Texas Physics Sem 1 Public Domain eBooks
  - Texas Physics Sem 1 eBook Subscription Services
  - Texas Physics Sem 1 Budget-Friendly Options
- 6. Navigating Texas Physics Sem 1 eBook Formats
  - ePub, PDF, MOBI, and More
  - Texas Physics Sem 1 Compatibility with Devices
  - Texas Physics Sem 1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Texas Physics Sem 1
  - Highlighting and Note-Taking Texas Physics Sem 1
  - Interactive Elements Texas Physics Sem 1
- 8. Staying Engaged with Texas Physics Sem 1
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Texas Physics Sem 1
- 9. Balancing eBooks and Physical Books Texas Physics Sem 1
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Texas Physics Sem 1
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Texas Physics Sem 1
  - Setting Reading Goals Texas Physics Sem 1
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Texas Physics Sem 1
  - Fact-Checking eBook Content of Texas Physics Sem 1
  - 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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