

Chapter 7: Simple Harmonic Motion, Forced Vibrations and Origin of Refractive Index**PROBLEMS**

7.1 The displacement in a string is given by the following equation:

$$y(x, t) = a \cos\left(\frac{2\pi}{\lambda} x - 2\pi \nu t\right)$$

where a , λ and ν represent the amplitude, wavelength and the frequency of the wave. Assume $a = 0.1$ cm, $\lambda = 4$ cm, $\nu = 1$ sec⁻¹. Plot the time dependence of the displacement at $x = 0, 0.5$ cm, 1.0 cm, 1.5 cm, 2 cm, 3 cm and 4 cm. Interpret the plots physically.

7.2 The displacement associated with a standing wave on a sonometer is given by the following equation:

$$y(x, t) = 2a \sin\left(\frac{2\pi}{\lambda} x\right) \cos 2\pi \nu t$$

If the length of the string is L then the allowed values of λ are $2L$, $2L/2$, $2L/3$, ... (see Sec. 13.2). Consider the case when $\lambda = 2L/5$; study the time variation of displacement in each loop and show that alternate loops vibrate in phase (with different points in a loop having different amplitudes) and adjacent loops vibrate out of phase.

7.3 A tunnel is dug through the earth as shown in Fig. 7.15. A mass is dropped at the point A along the tunnel. Show that it will execute simple harmonic motion. What will the time period be?

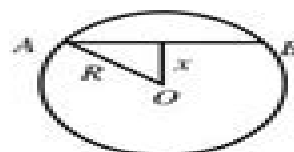


Fig. 7.15 For Problem 7.3

7.4 A 1 g mass is suspended from a vertical spring. It executes simple harmonic motion with period 0.1 sec. By how much distance had the spring stretched when the mass was attached?

7.5 A stretched string is given simultaneous displacement in the x - and y - directions such that

$$x(z, t) = a \cos\left(\frac{2\pi}{\lambda} z - 2\pi \nu t\right) \quad \text{and} \quad y(z, t) = a \cos\left(\frac{2\pi}{\lambda} z - 2\pi \nu t\right)$$

Study the resultant displacement (at a particular value of z) as a function of time.

7.6 In the above problem, if

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1. Understanding the eBook Schaum Optics Solution Manual
 - The Rise of Digital Reading Schaum Optics Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Schaum Optics Solution Manual
 - 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 Schaum Optics Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Schaum Optics Solution Manual
 - Personalized Recommendations
 - Schaum Optics Solution Manual User Reviews and Ratings
 - Schaum Optics Solution Manual and Bestseller Lists
5. Accessing Schaum Optics Solution Manual Free and Paid eBooks
 - Schaum Optics Solution Manual Public Domain eBooks
 - Schaum Optics Solution Manual eBook Subscription Services
 - Schaum Optics Solution Manual Budget-Friendly Options
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 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Schaum Optics Solution Manual
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 - Creating a Diverse Reading Collection Schaum Optics Solution Manual
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Schaum Optics Solution Manual
 - Setting Reading Goals Schaum Optics Solution Manual
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Schaum Optics Solution Manual
 - Fact-Checking eBook Content of Schaum Optics Solution Manual
 - 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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