

Physics

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(Chapter 9) (Mechanical Properties of Solids) (Exercises)

(Class 11)

Question 9.11:

A 14.5 kg mass, fastened to the end of a steel wire of unstretched length 1.0 m, is whirled in a vertical circle with an angular velocity of 2 rev/s at the bottom of the circle. The cross-sectional area of the wire is 0.065 cm². Calculate the elongation of the wire when the mass is at the lowest point of its path.

Answer 9.11:

Mass, $m = 14.5$ kg and Length of the steel wire, $l = 1.0$ m

Angular velocity, $\omega = 2$ rev/s

Cross-sectional area of the wire, $a = 0.065$ cm²

Let Δl be the elongation of the wire when the mass is at the lowest point of its path.

When the mass is placed at the position of the vertical circle, the total force on the mass is:

$$F = mg + m\omega^2 l = 14.5 \times 9.8 + 14.5 \times 1 \times (2)^2 = 200.1 \text{ N}$$

$$\text{Young's modulus} = \frac{\text{Stress}}{\text{Strain}} \Rightarrow Y = \frac{\frac{F}{A}}{\frac{\Delta l}{l}} = \frac{F}{A} \frac{l}{\Delta l}$$

$$\therefore \Delta l = \frac{Fl}{AY}$$

Young's modulus for steel = 2×10^{11} Pa

$$\begin{aligned} \therefore \Delta l &= \frac{200.1 \times 1}{0.065 \times 10^{-4} \times 2 \times 10^{11}} = 1539.23 \times 10^{-7} \\ &= 1.539 \times 10^{-4} \text{ m} \end{aligned}$$

Hence, the elongation of the wire is 1.539×10^{-4} m.

Question 9.12:

Compute the bulk modulus of water from the following data: Initial volume = 100.0 litre, Pressure increase = 100.0 atm (1 atm = 1.013×10^5 Pa), Final volume = 100.5 litre. Compare the bulk modulus of water with that of air (at constant temperature). Explain in simple terms why the ratio is so large.

Answer 9.12:

Initial volume, $V_1 = 100.0 \text{ l} = 100.0 \times 10^{-3} \text{ m}^3$

Final volume, $V_2 = 100.5 \text{ l} = 100.5 \times 10^{-3} \text{ m}^3$

Increase in volume, $\Delta V = V_2 - V_1 = 0.5 \times 10^{-3} \text{ m}^3$

Increase in pressure, $\Delta p = 100.0 \text{ atm} = 100 \times 1.013 \times 10^5 \text{ Pa}$

$$\begin{aligned} \text{Bulk modulus} &= \frac{\Delta p}{\frac{\Delta V}{V_1}} = \frac{\Delta p \times V_1}{\Delta V} \\ &= \frac{100 \times 1.013 \times 10^5 \times 100 \times 10^{-3}}{0.5 \times 10^{-3}} \\ &= 2.026 \times 10^9 \text{ Pa} \end{aligned}$$

Bulk modulus of air = 1.0×10^5 Pa

$$\therefore \frac{\text{Bulk modulus of water}}{\text{Bulk modulus of air}} = \frac{2.026 \times 10^9}{1.0 \times 10^5} = 2.026 \times 10^4$$

The ratio is very high because air is more compressible than water.

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Table of Contents Mastering Physics Solutions Chapter 9

1. Understanding the eBook Mastering Physics Solutions Chapter 9
 - The Rise of Digital Reading Mastering Physics Solutions Chapter 9
 - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Physics Solutions Chapter 9
 - 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 Mastering Physics Solutions Chapter 9
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Physics Solutions Chapter 9
 - Personalized Recommendations
 - Mastering Physics Solutions Chapter 9 User Reviews and Ratings
 - Mastering Physics Solutions Chapter 9 and Bestseller Lists
5. Accessing Mastering Physics Solutions Chapter 9 Free and Paid eBooks
 - Mastering Physics Solutions Chapter 9 Public Domain eBooks
 - Mastering Physics Solutions Chapter 9 eBook Subscription Services

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