

Physics

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

(Class 11)



Answer 9.5:

Elongation of the steel wire = 1.49×10^{-4} m and Elongation of the brass wire = 1.3×10^{-4} m

Diameter of the wires, $d = 0.25$ m

Hence, the radius of the wires, $r = d/2 = 0.125$ cm

Length of the steel wire, $L_1 = 1.5$ m and Length of the brass wire, $L_2 = 1.0$ m

Total force exerted on the steel wire: $F_1 = (4 + 6)g = 10 \times 9.8 = 98$ N

Young's modulus for steel:

$$Y_1 = \frac{\left(\frac{F_1}{A_1}\right)}{\left(\frac{\Delta L_1}{L_1}\right)}$$

Where, $\Delta L_1 =$ Change in the length of the steel wire

$A_1 =$ Area of cross-section of the steel wire = πr_1^2

Young's modulus of steel, $Y_1 = 2.0 \times 10^{11}$ Pa

$$\therefore \Delta L_1 = \frac{F_1 \times L_1}{A_1 \times Y_1} = \frac{F_1 \times L}{\pi r_1^2 \times Y_1} = \frac{98 \times 1.5}{\pi (0.125 \times 10^{-2})^2 \times 2 \times 10^{11}} = 1.49 \times 10^{-4} \text{ m}$$

Total force on the brass wire: $F_2 = 6 \times 9.8 = 58.8$ N

$$\text{Young's modulus for brass: } Y_2 = \frac{\left(\frac{F_2}{A_2}\right)}{\left(\frac{\Delta L_2}{L_2}\right)}$$

Where,

$\Delta L_2 =$ Changes in length

$A_2 =$ Area of cross-section of the brass wire

$$\therefore \Delta L_2 = \frac{F_2 \times L_2}{A_2 \times Y_2} = \frac{F_2 \times L_2}{\pi r_2^2 \times Y_2} = \frac{58.8 \times 1.0}{\pi \times (0.125 \times 10^{-2})^2 \times (0.91 \times 10^{11})} = 1.3 \times 10^{-4} \text{ m}$$

Elongation of the steel wire = 1.49×10^{-4} m

Elongation of the brass wire = 1.3×10^{-4} m

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1. Understanding the eBook Physics Chapter 9 Review Answers
 - The Rise of Digital Reading Physics Chapter 9 Review Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Chapter 9 Review Answers
 - 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 Physics Chapter 9 Review Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Chapter 9 Review Answers

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

- Fact-Checking eBook Content of Physics Chapter 9 Review Answers
 - 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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