

Physics

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(Chapter 9) (Mechanical Properties of Solids) (Exercises)
(Class 11)

Question 9.3:

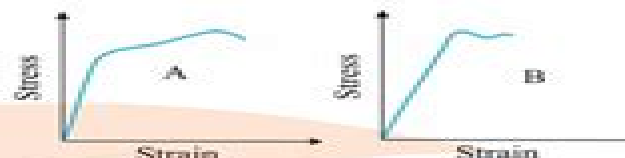
The stress-strain graphs for materials **A** and **B** are shown in Figure. The graphs are drawn to the same scale.

- (a) Which of the materials has the greater Young's modulus?
(b) Which of the two is the stronger material?

Answer 9.3:

- (a) A material has the greater Young's modulus.
(b) A material is the strongest in both.

For a given strain, the stress for material **A** is more than it is for material **B**, as shown in the two graphs.



$$\text{Young's modulus} = Y_1 = \frac{\left(\frac{F_1}{A_1}\right)}{\left(\frac{\Delta L_1}{L_1}\right)}$$

For a given strain, if the stress for a material is more, then Young's modulus is also greater for that material. Therefore, Young's modulus for material **A** is greater than it is for material **B**.

The amount of stress required for fracturing a material, corresponding to its fracture point, gives the strength of that material. Fracture point is the extreme point in a stress-strain curve. It can be observed that material **A** can withstand more strain than material **B**.

Hence, material **A** is stronger than material **B**.

Question 9.4:

Read the following two statements below carefully and state, with reasons, if it is true or false.

- (a) The Young's modulus of rubber is greater than that of steel;
(b) The stretching of a coil is determined by its shear modulus.

Answer 9.4:

- (a) False
(b) True

For a given stress, the strain in rubber is more than it is in steel.

$$\text{Young's modulus, } Y = \frac{\text{stress}}{\text{strain}}$$

$$\text{For a constant stress: } Y \propto \frac{1}{\text{strain}}$$

Hence, Young's modulus for rubber is less than it is for steel.

Shear modulus is the ratio of the applied stress to the change in the shape of a body. The stretching of a coil changes its shape. Hence, shear modulus of elasticity is involved in this process.

Question 9.5:

Two wires of diameter 0.25 cm, one made of steel and the other made of brass are loaded as shown in Fig. 9.13. The unloaded length of steel wire is 1.5 m and that of brass wire is 1.0 m. Compute the elongations of the steel and the brass wires.

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Chapter 9 Exercises Physics

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Chapter 9 Exercises Physics:

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graduate students and research workers in quantum field theory general relativity and elementary particle theory

Concise Optics Ajawad I. Haija, M. Z. Numan, W. Larry Freeman, 2018-02-21 This introductory text is a reader friendly treatment of geometrical and physical optics emphasizing problems and solved examples with detailed analysis and helpful commentary The authors are seasoned educators with decades of experience teaching optics Their approach is to gradually present mathematics explaining the physical concepts It covers ray tracing to the wave nature of light and introduces Maxwell's equations in an organic fashion The text then moves on to explain how to analyze simple optical systems such as spectacles for improving vision microscopes and telescopes while also being exposed to contemporary research topics Ajawad I Haija is a professor of physics at Indiana University of Pennsylvania M Z Numan is professor and chair of the department of physics at Indiana University of Pennsylvania W Larry Freeman is Emeritus Professor of Physics at Indiana University of Pennsylvania

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Global Attractors in Abstract Parabolic Problems Jan W. Cholewa, Tomasz Dlotko, 2000-08-31 This book investigates the asymptotic behaviour of dynamical systems corresponding to parabolic equations

College Physics Randall Dewey Knight, Brian Jones, Stuart Field, 2007

Quantum Mechanics on the Personal Computer Siegmund Brandt, Hans D. Dahmen, 1989 Index of IQ commands

-1st year's course. Elementary physics John Guthrie Kerr, 1898

Manifolds, Groups, Bundles, and Spacetime R. Dale Gray, 2015-07-23 Manifolds Groups Bundles and Spacetime was written for those who are interested in modern differential geometry and its applications in physics The primary material is suitable for a graduate level course in the theory of differentiable manifolds Lie groups and fiber bundles The first two chapters are an introduction to concepts from linear algebra and tensors and can be read to

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Table of Contents Chapter 9 Exercises Physics

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

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

- 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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