

SOLUTIONS TO END-OF-CHAPTER PROBLEMS

Section 1.1 Standards of Length, Mass, and Time

P1.1 (a) Modeling the Earth as a sphere, we find its volume as

$$\frac{4}{3}\pi r^3 = \frac{4}{3}\pi(6.37 \times 10^6 \text{ m})^3 = 1.08 \times 10^{21} \text{ m}^3$$

Its density is then

$$\rho = \frac{m}{V} = \frac{5.98 \times 10^{24} \text{ kg}}{1.08 \times 10^{21} \text{ m}^3} = \boxed{5.52 \times 10^3 \text{ kg/m}^3}$$

(b) This value is intermediate between the tabulated densities of aluminum and iron. Typical rocks have densities around 2000 to 3000 kg/m³. The average density of the Earth is significantly higher, so higher-density material must be down below the surface.

P1.2 (a) $\rho = m/V$ and $V = (4/3)\pi r^3 = (4/3)\pi(d/2)^3 = \pi d^3/6$, where d is the diameter.

$$\text{Then } \rho = 6m / \pi d^3 = \frac{6(1.67 \times 10^{-27} \text{ kg})}{\pi(2.4 \times 10^{-15} \text{ m})^3} = \boxed{2.3 \times 10^{17} \text{ kg/m}^3}$$

(b) $\frac{2.3 \times 10^{17} \text{ kg/m}^3}{22.6 \times 10^3 \text{ kg/m}^3} = \boxed{1.0 \times 10^{13} \text{ times the density of osmium}}$

P1.3 For sphere the volume is $V = \frac{4}{3}\pi r^3$ and the mass is $m = \rho V = \rho \frac{4}{3}\pi r^3$.

We divide this equation for the larger sphere by the same equation for the smaller:

$$\frac{m_L}{m_s} = \frac{\rho(4/3)\pi r_L^3}{\rho(4/3)\pi r_s^3} = \frac{r_L^3}{r_s^3} = 5$$

Then $r_L = r_s \sqrt[3]{5} = (4.50 \text{ cm})\sqrt[3]{5} = \boxed{7.69 \text{ cm}}$

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Table of Contents Perkins Solution Manual Physics

1. Understanding the eBook Perkins Solution Manual Physics
 - The Rise of Digital Reading Perkins Solution Manual Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Perkins Solution Manual 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 Perkins Solution Manual Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Perkins Solution Manual Physics
 - Personalized Recommendations
 - Perkins Solution Manual Physics User Reviews and Ratings
 - Perkins Solution Manual Physics and Bestseller Lists
5. Accessing Perkins Solution Manual Physics Free and Paid eBooks

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