

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 Physics For Scientists Engineers 8th Edition Solution Manual

1. Understanding the eBook Physics For Scientists Engineers 8th Edition Solution Manual
 - The Rise of Digital Reading Physics For Scientists Engineers 8th Edition Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics For Scientists Engineers 8th Edition 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 Physics For Scientists Engineers 8th Edition Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics For Scientists Engineers 8th Edition Solution Manual
 - Personalized Recommendations
 - Physics For Scientists Engineers 8th Edition Solution Manual User Reviews and Ratings

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- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics For Scientists Engineers 8th Edition Solution Manual
 - Highlighting and Note-Taking Physics For Scientists Engineers 8th Edition Solution Manual
 - Interactive Elements Physics For Scientists Engineers 8th Edition Solution Manual
- 8. Staying Engaged with Physics For Scientists Engineers 8th Edition Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics For Scientists Engineers 8th Edition Solution Manual
- 9. Balancing eBooks and Physical Books Physics For Scientists Engineers 8th Edition Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics For Scientists Engineers 8th Edition Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physics For Scientists Engineers 8th Edition Solution Manual
 - Setting Reading Goals Physics For Scientists Engineers 8th Edition Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics For Scientists Engineers 8th Edition Solution Manual
 - Fact-Checking eBook Content of Physics For Scientists Engineers 8th Edition 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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