

## 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/m<sup>3</sup>. 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  $r_L = r_s \sqrt[3]{5} = (4.50 \text{ cm})\sqrt[3]{5} = \boxed{7.69 \text{ cm}}$

# Physics Of The Human Body Solution Manual Contop

**Mike Jess**



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## **Table of Contents Physics Of The Human Body Solution Manual Contop**

1. Understanding the eBook Physics Of The Human Body Solution Manual Contop
  - The Rise of Digital Reading Physics Of The Human Body Solution Manual Contop
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Of The Human Body Solution Manual Contop
  - 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 Of The Human Body Solution Manual Contop
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Of The Human Body Solution Manual Contop
  - Personalized Recommendations
  - Physics Of The Human Body Solution Manual Contop User Reviews and Ratings
  - Physics Of The Human Body Solution Manual Contop and Bestseller Lists
5. Accessing Physics Of The Human Body Solution Manual Contop Free and Paid eBooks
  - Physics Of The Human Body Solution Manual Contop Public Domain eBooks
  - Physics Of The Human Body Solution Manual Contop eBook Subscription Services
  - Physics Of The Human Body Solution Manual Contop Budget-Friendly Options
6. Navigating Physics Of The Human Body Solution Manual Contop eBook Formats

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