

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:

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

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

Numeric Menhod9th Edition Solution Manual

SJ Ball



Numeric Menhod9th Edition Solution Manual:

The book delves into Numeric Menhod9th Edition Solution Manual. Numeric Menhod9th Edition Solution Manual is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Numeric Menhod9th Edition Solution Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Numeric Menhod9th Edition Solution Manual
 - Chapter 2: Essential Elements of Numeric Menhod9th Edition Solution Manual
 - Chapter 3: Numeric Menhod9th Edition Solution Manual in Everyday Life
 - Chapter 4: Numeric Menhod9th Edition Solution Manual in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Numeric Menhod9th Edition Solution Manual. The first chapter will explore what Numeric Menhod9th Edition Solution Manual is, why Numeric Menhod9th Edition Solution Manual is vital, and how to effectively learn about Numeric Menhod9th Edition Solution Manual.
 3. In chapter 2, this book will delve into the foundational concepts of Numeric Menhod9th Edition Solution Manual. This chapter will elucidate the essential principles that must be understood to grasp Numeric Menhod9th Edition Solution Manual in its entirety.
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 5. In chapter 4, this book will scrutinize the relevance of Numeric Menhod9th Edition Solution Manual in specific contexts. This chapter will explore how Numeric Menhod9th Edition Solution Manual is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Numeric Menhod9th Edition Solution Manual. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Numeric Menhod9th Edition Solution Manual.

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Numeric Menhod9th Edition Solution Manual Introduction

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