

## 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:

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

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

# Oksendal Solution Manual

**CO Houle**



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International Books in Print, 1995 Barbara Hopkinson, [Anonymus AC01401231], 1995 Handbook of Neuro-Oncology Neuroimaging Herbert B. Newton, 2022-08-21 With treatment approaches and the field of neuro oncology neuroimaging changing rapidly this third edition of the Handbook of Neuro Oncology Neuroimaging is very relevant to those in the field providing a single source comprehensive reference handbook of the most up to date clinical and technical information regarding the application of neuroimaging techniques to brain tumor and neuro oncology patients This new volume will have updates on all of the material from the second edition and in addition features several new important chapters covering diverse topics such as imaging for the use of Laser Interstitial Thermal Therapy advanced imaging techniques in radiation therapy therapeutic treatment fields response assessment in clinical trials surgical planning of neoplastic disease of the spine and more Sections first overview neuro oncological disorders before delving into the physics and basic science of neuroimaging and great focus on CT and MRI The book then focuses on advances in the neuroimaging of brain tumors and neuroimaging of specific tumor types There is also discussion of neuroimaging of other neuro oncological syndromes This book will serve as a resource of background information to neuroimaging researchers and basic scientists with an interest in brain tumors and neuro oncology Summarizes translational research on brain imaging for brain tumors Discusses limitations of neuroimaging for diagnosis and treatment Presents advanced imaging technologies including CT MRI and PET Contains new coverage on Laser Interstitial Thermal Therapy radiation therapy clinical trials and more *Normat*, 1979 *Notices of the American Mathematical Society* American Mathematical Society, 1993 *Nordisk matematisk tidskrift*, 1978

**Current Index to Statistics, Applications, Methods and Theory**, 1997 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields **Books in Print Supplement**, 1985

Whitaker's Book List, 1991 Scientific and Technical Books and Serials in Print, 1989 Solutions Manual for Applied Mathematical Methods for Chemical Engineers Norman W. Loney, 2006-09-26 **Solutions Manual** Nivaldo J.. Tro, Mary

Beth Kramer, Kathy Thrush Shaginaw, 2009-05-01      **Selected Solutions Manual for Chemistry** John E. McMurry, Robert C. Fay, Joseph Topich, Jill K. Robinson, 2015-06-12 The selected solution manual for students contains complete step by step solutions to selected odd numbered end of chapter problems

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