

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

# Meyerhof Solution Manual

**Wayne William Umbreit**



## **Meyerhof Solution Manual:**

Student Solutions Manual for Introduction to General, Organic, and Biochemistry Morris Hein, 2001-07-21 Experienced authors and educators Hein Pattison Best and Arena recognize that both science and mathematics can be daunting subjects. They skillfully anticipate areas of difficulty and pace the text accordingly. Particular emphasis is placed on the understanding of how chemical principles relate to the readers' lives and future careers. **Study Guide and Full Solutions Manual**

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