

1장 물리학과 측정

P1.1 With $V = (\text{base area})(\text{height})$ $V = (\pi r^2)h$ and $\rho = \frac{m}{V}$, we have

$$\rho = \frac{m}{\pi r^2 h} = \frac{1 \text{ kg}}{\pi (19.5 \text{ mm})^2 (39.0 \text{ mm})} \left(\frac{10^9 \text{ mm}^3}{1 \text{ m}^3} \right)$$

$$\rho = \boxed{2.15 \times 10^4 \text{ kg/m}^3}.$$

P1.2 $V = V_o - V_i = \frac{4}{3} \pi (r_2^3 - r_1^3)$

$$\rho = \frac{m}{V}, \text{ so } m = \rho V = \rho \left(\frac{4}{3} \pi \right) (r_2^3 - r_1^3) = \boxed{\frac{4\pi \rho (r_2^3 - r_1^3)}{3}}.$$

P1.3 Use $1 \text{ u} = 1.66 \times 10^{-24} \text{ g}$.

(a) For He, $m_o = 4.00 \text{ u} \left(\frac{1.66 \times 10^{-24} \text{ g}}{1 \text{ u}} \right) = \boxed{6.64 \times 10^{-24} \text{ g}}.$

(b) For Fe, $m_o = 55.9 \text{ u} \left(\frac{1.66 \times 10^{-24} \text{ g}}{1 \text{ u}} \right) = \boxed{9.29 \times 10^{-23} \text{ g}}.$

(c) For Pb, $m_o = 207 \text{ u} \left(\frac{1.66 \times 10^{-24} \text{ g}}{1 \text{ u}} \right) = \boxed{3.44 \times 10^{-22} \text{ g}}.$

P1.4 Mass of gold abraded: $|\Delta m| = 3.80 \text{ g} - 3.35 \text{ g} = 0.45 \text{ g} = (0.45 \text{ g}) \left(\frac{1 \text{ kg}}{10^3 \text{ g}} \right) = 4.5 \times 10^{-4} \text{ kg}.$

Each atom has mass $m_o = 197 \text{ u} = 197 \text{ u} \left(\frac{1.66 \times 10^{-27} \text{ kg}}{1 \text{ u}} \right) = 3.27 \times 10^{-25} \text{ kg}.$

Now, $|\Delta m| = |\Delta N| m_o$, and the number of atoms missing is

$$|\Delta N| = \frac{|\Delta m|}{m_o} = \frac{4.5 \times 10^{-4} \text{ kg}}{3.27 \times 10^{-25} \text{ kg}} = 1.38 \times 10^{21} \text{ atoms}.$$

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