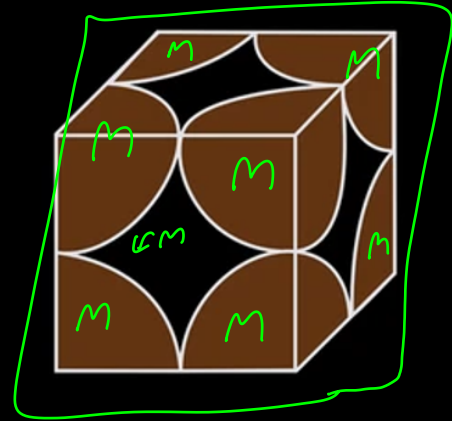
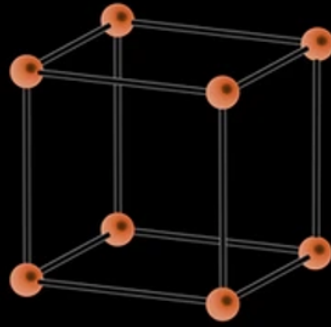
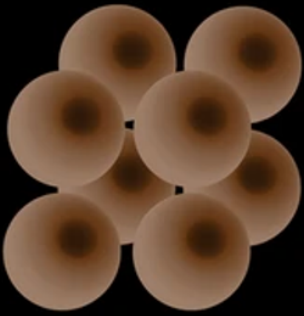


תא יחידה קובי פשוט - SC

צפיפות תא יחידה



$$\rho = \frac{M}{V}$$

$$V = a^3$$

$$\rho = \frac{M}{a^3}$$

$$n = \frac{M}{m_w} \rightarrow M = n \cdot m_w$$

$$\rho = \frac{n \cdot m_w}{a^3}$$

$$N = n \cdot N_A \rightarrow n = \frac{N}{N_A}$$

$$\rho = \frac{\frac{N}{N_A} \cdot m_w}{a^3} = \frac{\frac{N \cdot m_w}{N_A}}{a^3} = \frac{N m_w}{N_A} \cdot \frac{1}{a^3} = \frac{N m_w}{N_A \cdot a^3}$$

$$\rho = \frac{N m_w}{N_A \cdot a^3}$$