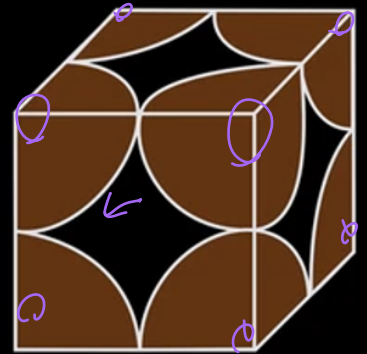
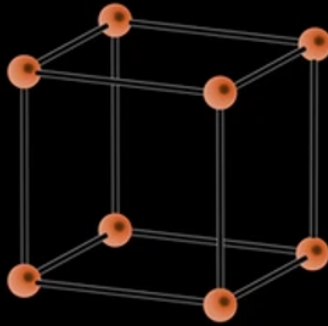
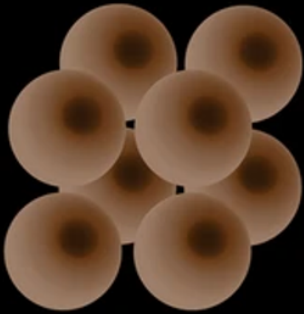


תא יחידה קובי פשוט - SC

אחוז תפוסה של תא יחידה



$$V_{ball} = \frac{4}{3} \pi R^3$$

$$V_{cube} = a^3$$

$$a = (2R)$$

$$\%APF = \frac{V_{ball} \cdot N}{V_{cube}} \cdot 100\% = \frac{\frac{4}{3} \pi R^3 \cdot 1}{a^3}$$

$$= \frac{\frac{4}{3} \pi R^3}{(2R)^3} = \frac{\frac{4}{3} \pi R^3}{8R^3} \cdot 100\% = 52.36\%$$

$$d = \frac{a}{\sqrt{3}}$$

$$\%APF = \frac{V}{V}$$