Chapter 1

Problem Solutions

1.1

- (a) for S corner atoms × 1/S = 1 atom.
 6 face atoms × ½ = 3 atoms
 Total of 4 atoms per unit cell
- (b) bcc: S corner atoms × 1/S = 1 atom. 1 enclosed atom = 1 atom. Total of 2 atoms per unit cell
- (c) Diamond S corner atoms × 1/S = 1 atom.
 6 face atoms × ½ = 3 atoms
 4 enclosed atoms = 4 atoms
 Total of S atoms per unit cell

1.2

(a) 4 Ga atoms per unit cell

Density =
$$\frac{4}{(565 \times 10^{-4})^{\circ}}$$
 \Rightarrow

Density of Ga = 2.22 x10" cm" 4 As alons per unit cell, so that

Density of As = 2.22 x10" cm"

((b))

S Ge atoms per unit cell
Density = $\frac{8}{(5.65 \times 10^{+5})^3}$ =>

Density of Ge - 4.44x10" cm

.

(a) Simple cubic lattice, α = 2r

Unit cell vol = a' = (2r)' = Sr'

I atom per cell, so atom vol. = $(1)\left(\frac{4\pi^{-1}}{3}\right)$

Then

$$Ratio = \frac{\left(\frac{4\pi r^{+}}{3}\right)}{8r^{+}} \times 100\% \implies \underline{Ratio = 52.4\%}$$

(b) Face-centered cubic lattice

$$d = 4r = a\sqrt{2} \implies a = \frac{d}{\sqrt{2}} = 2\sqrt{2} r$$

Unit cell vol = $a' = (2\sqrt{2}r)' = 16\sqrt{2}r'$

4 atoms per cell, so atom vol. = $4\left(\frac{4\pi^{-1}}{3}\right)$

Them.

$$Ratio = \frac{4\left(\frac{4\pi r^2}{3}\right)}{16\sqrt{2}r^2} \times 100\% \implies Ratio = 74\%$$

(c) Body-centered cubic lattice

$$d = 4r = a\sqrt{3} \Rightarrow a = \frac{4}{\sqrt{3}}r$$

Uzut cell vol. = $a' = \left(\frac{4}{\sqrt{3}}r\right)'$

2 atoms per cell, so atom vol. = $2\left(\frac{4\pi^{\prime}}{3}\right)$

Them.

$$Ratio = \frac{2\left(\frac{4\pi r^2}{3}\right)}{\left(\frac{4r}{\sqrt{3}}\right)^2} \times 100\% \implies \frac{Ratio = 68\%}{}$$

(d) Diamond lattice

Body diagonal $= d = 3r = a\sqrt{3} \Rightarrow a = \frac{S}{\sqrt{3}}r$

Uzat cell vol. = $a' = \left(\frac{3r}{\sqrt{3}}\right)'$

S atoms per cell, so atom vol. $S\left(\frac{4\pi^{-1}}{3}\right)$

Them.

$$Ratio = \frac{s\left(\frac{4\pi r^{+}}{3}\right)}{\left(\frac{sr}{\sqrt{3}}\right)^{3}} \times 100\% \implies Ratio = 34\%$$

1.4

From Problem 1.3, percent volume of fcc stoms is 74%, Therefore after coffee is ground,

Volume - 0.74 cm

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