Chapter 1

Problem Solutions

1.1

- (a) fee: 8 corner atoms × 1/8 = 1 atoms 6 face atoms × 15 = 3 atoms Total of 4 atoms per unit cell
- (b) bcc: 8 corner atoms × 1/8 = 1 atom 1 enclosed atom = 1 atom Total of 2 atoms per unit cell
- (c) Diamond: 8 corner atoms × 1/8 = 1 atom
 6 face atoms × ½ = 3 atoms
 4 enclosed atoms = 4 atoms
 Total of 8 atoms per unit cell

1.2

(a) 4 Ga atoms per unit cell

Density =
$$\frac{4}{(5.65 \times 10^{-4})^{3}} =$$

Density of Ga = 2.22×10" cm"

4 As atoms per unit cell, so that

Density of As = 2.22x10^{t1} cm⁻¹

(9-5)

Density =
$$\frac{8}{(5.65 \times 10^{-4})^4}$$
 \Rightarrow

Density of Ge = 4.44x10" cm"

1.3

(a) Simple cubic lattice: a = 2r

Unit cell vol =
$$\alpha' = (2r)' = 8r'$$

1 atom per cell, so atom vol. = (1) $\left(\frac{4\pi r^2}{3}\right)$

Then

$$Ranio = \frac{\left(\frac{4\pi r^2}{3}\right)}{8r^2} \times 100\% \implies Ranio = 52.4\%$$

(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. = $4\left(\frac{4\pi r^3}{3}\right)$

Them

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

(c) Body-centered cubic lattice

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

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

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

Therm.

$$Ratio = \frac{2\left(\frac{4\pi r^2}{3}\right)}{\left(\frac{4r}{\sqrt{3}}\right)^2} \times 100\% \implies Ratio = 6.8\%$$

(d) Diamond lattice

Body diagonal =
$$d = 8r = a\sqrt{3} \Rightarrow a = \frac{8}{\sqrt{3}}r$$

Unit cell vol.
$$= \alpha' = \left(\frac{8p}{\sqrt{3}}\right)'$$

8 atoms per cell, so atom vol. $8\left(\frac{4\pi^2}{3}\right)$

Them.

$$Ratio = \frac{8\left(\frac{4\pi r^2}{3}\right)}{\left(\frac{8r}{\sqrt{3}}\right)^2} \times 100\% \implies Ratio = 3.4\%$$

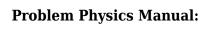
8.4

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

Volume $= 0.74 \text{ cm}^3$

Problem Physics Manual

DJ Losen



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- 1. Understanding the eBook Problem Physics Manual
 - The Rise of Digital Reading Problem Physics Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Problem Physics Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Problem Physics Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Problem Physics Manual
 - Personalized Recommendations
 - $\circ\,$ Problem Physics Manual User Reviews and Ratings
 - Problem Physics Manual and Bestseller Lists
- 5. Accessing Problem Physics Manual Free and Paid eBooks
 - o Problem Physics Manual Public Domain eBooks

- Problem Physics Manual eBook Subscription Services
- Problem Physics Manual Budget-Friendly Options
- 6. Navigating Problem Physics Manual eBook Formats
 - o ePub, PDF, MOBI, and More
 - Problem Physics Manual Compatibility with Devices
 - Problem Physics Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Problem Physics Manual
 - Highlighting and Note-Taking Problem Physics Manual
 - Interactive Elements Problem Physics Manual
- 8. Staying Engaged with Problem Physics Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Problem Physics Manual
- 9. Balancing eBooks and Physical Books Problem Physics Manual
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Problem Physics Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Problem Physics Manual
 - Setting Reading Goals Problem Physics Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Problem Physics Manual
 - Fact-Checking eBook Content of Problem Physics Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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