

Solutions of 8.8 : Miscellaneous Solutions

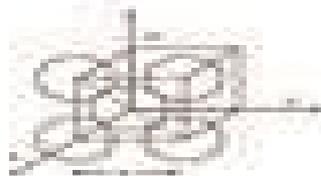
Problem # 1

For the nearest neighbor (NN) distances:

- (a) the distance of nearest neighbor neighbors
- (b) the interplanar spacing of (111) planes

Solution

- (a) The nearest neighbor distance is obtained by looking at a unit cell of Cu (FCC):



Nearest neighbor distance is obtained along a (100) plane (nearest neighbor along a (100)). The nearest neighbor distance is found to be $a/\sqrt{2}$ (shown only by looking at a FCC, page 18).

(Cu) atomic volume is $V = 1 \times 10^{-23} \text{ cm}^3$ (only) $= \frac{4}{3}\pi r^3$ (Cu) (FCC) (atomic only)

$$r = \sqrt[3]{\frac{3V}{4\pi}} = \sqrt[3]{\frac{3(1 \times 10^{-23})}{4\pi}} = 2.48 \times 10^{-8} \text{ cm}$$

$$(b) d_{111} = \frac{a}{\sqrt{1^2 + 1^2 + 1^2}}$$

$$d_{111} = \frac{2.48 \times 10^{-8}}{\sqrt{3}} = 1.43 \times 10^{-8} \text{ cm}$$

Problem # 2

Consider a (111) plane in an FCC structure. How many different (100) planes intersect the (111) plane? Show your solution for each such direction.

Solution

Let's look at the unit cell.



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R Sandford



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Table of Contents 16 30 31 Homework Assignment Mit Opencourseware

1. Understanding the eBook 16 30 31 Homework Assignment Mit Opencourseware
 - The Rise of Digital Reading 16 30 31 Homework Assignment Mit Opencourseware
 - Advantages of eBooks Over Traditional Books
2. Identifying 16 30 31 Homework Assignment Mit Opencourseware
 - 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 16 30 31 Homework Assignment Mit Opencourseware
 - User-Friendly Interface

4. Exploring eBook Recommendations from 16 30 31 Homework Assignment Mit Opencourseware
 - Personalized Recommendations
 - 16 30 31 Homework Assignment Mit Opencourseware User Reviews and Ratings
 - 16 30 31 Homework Assignment Mit Opencourseware and Bestseller Lists
5. Accessing 16 30 31 Homework Assignment Mit Opencourseware Free and Paid eBooks
 - 16 30 31 Homework Assignment Mit Opencourseware Public Domain eBooks
 - 16 30 31 Homework Assignment Mit Opencourseware eBook Subscription Services
 - 16 30 31 Homework Assignment Mit Opencourseware Budget-Friendly Options
6. Navigating 16 30 31 Homework Assignment Mit Opencourseware eBook Formats
 - ePub, PDF, MOBI, and More
 - 16 30 31 Homework Assignment Mit Opencourseware Compatibility with Devices
 - 16 30 31 Homework Assignment Mit Opencourseware Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 16 30 31 Homework Assignment Mit Opencourseware
 - Highlighting and Note-Taking 16 30 31 Homework Assignment Mit Opencourseware
 - Interactive Elements 16 30 31 Homework Assignment Mit Opencourseware
8. Staying Engaged with 16 30 31 Homework Assignment Mit Opencourseware
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 16 30 31 Homework Assignment Mit Opencourseware
9. Balancing eBooks and Physical Books 16 30 31 Homework Assignment Mit Opencourseware
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 16 30 31 Homework Assignment Mit Opencourseware
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 16 30 31 Homework Assignment Mit Opencourseware
 - Setting Reading Goals 16 30 31 Homework Assignment Mit Opencourseware
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of 16 30 31 Homework Assignment Mit Opencourseware
 - Fact-Checking eBook Content of 16 30 31 Homework Assignment Mit Opencourseware
 - 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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