

Section 8.8 : Homework Solutions

Problem # 1

For the crystal copper (Cu) determine:

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

Solution

- This answer can be found by looking at a unit cell of Cu (FCC).



Nearest neighbor distance is observed along a (100) second nearest along a (100) . The second nearest neighbor distance is found to be a (distance edge of looking in is looking at (100) , page 18).

(Cu) atomic volume = $7.1 \times 10^{-23} \text{ cm}^3$ (edge = $\sqrt[3]{7.1 \times 10^{-23} \text{ cm}^3}$ (Cu) (FCC) is structure unit)

$$a = \sqrt[3]{\frac{7.1 \times 10^{-23} \text{ cm}^3}{0.52}} = 3.61 \times 10^{-8} \text{ cm}$$

$$\text{for } d_{111} = \frac{a}{\sqrt{1^2 + 1^2 + 1^2}}$$

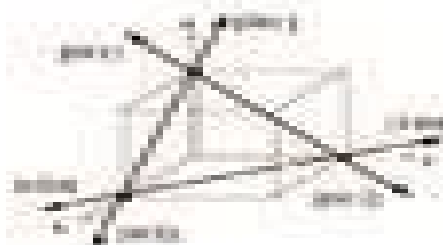
$$d_{111} = \frac{3.61 \times 10^{-8} \text{ cm}}{\sqrt{3}} = 2.09 \times 10^{-8} \text{ cm}$$

Problem # 2

Consider a (111) plane in an FCC structure. How many different (100) -type directions are in this (111) plane? Write out the planes for each such direction.

Solution

- Let's look at the unit cell.



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The Dance of Parenting Natasha Solovieff, 2017-04-25 Through stories and a breakdown of how to The Dance of Parenting will get you thinking about your parenting experience in a new way It offers simply laid out parenting skills to help you energize and strengthen your parenting dance It will accompany you as you develop your enlightened thriving inner choreographer

Applied Chemistry and Chemical Engineering, Volume 4 A. K. Haghi, Lionello Pogliani, Eduardo A. Castro, Devrim Balköse, Omari V. Mukbaniani, Chin Hua Chia, 2017-12-22 Applied Chemistry and Chemical Engineering Volume 4 Experimental Techniques and Methodical Developments provides a detailed yet easy to follow treatment of various techniques useful for characterizing the structure and properties of engineering materials This timely volume provides an overview of new methods and presents experimental research in applied chemistry using modern approaches Each chapter describes the principle of the respective method as well as the detailed procedures of experiments with examples of actual applications and then goes on to demonstrate the advantage and disadvantages of each physical technique Thus readers will be able to apply the concepts as described in the book to their own experiments The book is broken into several subsections Polymer Chemistry and Technology Computational Approaches Clinical Chemistry and Bioinformatics Special Topics This volume presents research and reviews and information on implementing and sustaining interdisciplinary studies in science technology engineering and mathematics

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