

CHAPTER 2

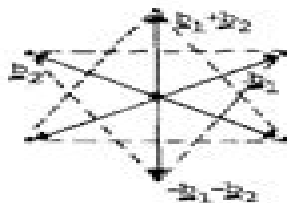
1. The crystal plane with Miller indices hkl is a plane defined by the points \mathbf{a}_1/h , \mathbf{a}_2/k , and \mathbf{a}_3/ℓ . (a) Two vectors that lie in the plane may be taken as $\mathbf{a}_1/h - \mathbf{a}_2/k$ and $\mathbf{a}_1/h - \mathbf{a}_3/\ell$. But each of these vectors gives zero as its scalar product with $\mathbf{G} = h\mathbf{a}_1 + k\mathbf{a}_2 + \ell\mathbf{a}_3$, so that \mathbf{G} must be perpendicular to the plane hkl . (b) If $\hat{\mathbf{n}}$ is the unit normal to the plane, the interplanar spacing is $\hat{\mathbf{n}} \cdot \mathbf{a}_1/h$. But $\hat{\mathbf{n}} = \mathbf{G}/|\mathbf{G}|$, whence $d(hkl) = \mathbf{G} \cdot \mathbf{a}_1/h/|\mathbf{G}| = 2\pi/|\mathbf{G}|$. (c) For a simple cubic lattice $\mathbf{G} = (2\pi/a)(h\hat{\mathbf{x}} + k\hat{\mathbf{y}} + \ell\hat{\mathbf{z}})$, whence

$$\frac{1}{d^2} = \frac{G^2}{4\pi^2} = \frac{h^2 + k^2 + \ell^2}{a^2}.$$

$$2. (a) \text{ Cell volume } \mathbf{a}_1 \cdot \mathbf{a}_2 \times \mathbf{a}_3 = \begin{vmatrix} \frac{1}{2}\sqrt{3}a & \frac{1}{2}a & 0 \\ -\frac{1}{2}\sqrt{3}a & \frac{1}{2}a & 0 \\ 0 & 0 & c \end{vmatrix}$$

$$= \frac{1}{2}\sqrt{3}a^2c.$$

$$(b) \mathbf{b}_1 = 2\pi \frac{\mathbf{a}_2 \times \mathbf{a}_3}{|\mathbf{a}_1 \cdot \mathbf{a}_2 \times \mathbf{a}_3|} = \frac{4\pi}{\sqrt{3}a^2c} \begin{vmatrix} \hat{\mathbf{x}} & \hat{\mathbf{y}} & \hat{\mathbf{z}} \\ 0 & 0 & c \\ \frac{1}{2}\sqrt{3}a & \frac{1}{2}a & 0 \end{vmatrix} \\ = \frac{2\pi}{a} \left(\frac{1}{\sqrt{3}}\hat{\mathbf{x}} + \hat{\mathbf{y}} \right), \text{ and similarly for } \mathbf{b}_2, \mathbf{b}_3.$$



(c) Six vectors in the reciprocal lattice are shown as solid lines. The broken lines are the perpendicular bisectors at the midpoints. The inscribed hexagon forms the first Brillouin Zone.

3. By definition of the primitive reciprocal lattice vectors

$$\mathbf{V}_{\text{rec}} = (2\pi)^3 \frac{(\mathbf{a}_2 \times \mathbf{a}_3) \cdot (\mathbf{a}_3 \times \mathbf{a}_1) \times (\mathbf{a}_1 \times \mathbf{a}_2)}{|\mathbf{a}_1 \cdot \mathbf{a}_2 \times \mathbf{a}_3|^3} = (2\pi)^3 / |\mathbf{a}_1 \cdot \mathbf{a}_2 \times \mathbf{a}_3| \\ = (2\pi)^3 / V_C.$$

For the vector identity, see G. A. Korn and T. M. Korn, *Mathematical handbook for scientists and engineers*, McGraw-Hill, 1961, p. 147.

4. (a) This follows by forming

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Marcus Frederick Charles Ladd



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seen a fast and steady development and are the ubiquitous tool both for research and industrial applications The author's monograph Solid State Lasers has become the most used reference book in this area The present graduate text on solid state lasers takes advantage of this rich source by focusing on the needs at the graduate level and those who need an introduction Numerous exercises with hints for solution new text and updated material where needed make this text very accessible

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Table of Contents Introduction To Solid State Physics Solutions Manual

1. Understanding the eBook Introduction To Solid State Physics Solutions Manual
 - The Rise of Digital Reading Introduction To Solid State Physics Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Introduction To Solid State Physics Solutions 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 Introduction To Solid State Physics Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Introduction To Solid State Physics Solutions Manual
 - Personalized Recommendations
 - Introduction To Solid State Physics Solutions Manual User Reviews and Ratings
 - Introduction To Solid State Physics Solutions Manual and Bestseller Lists

5. Accessing Introduction To Solid State Physics Solutions Manual Free and Paid eBooks
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 - Introduction To Solid State Physics Solutions Manual eBook Subscription Services
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 - Introduction To Solid State Physics Solutions Manual Compatibility with Devices
 - Introduction To Solid State Physics Solutions Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Introduction To Solid State Physics Solutions Manual
 - Highlighting and Note-Taking Introduction To Solid State Physics Solutions Manual
 - Interactive Elements Introduction To Solid State Physics Solutions Manual
8. Staying Engaged with Introduction To Solid State Physics Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Introduction To Solid State Physics Solutions Manual
9. Balancing eBooks and Physical Books Introduction To Solid State Physics Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Introduction To Solid State Physics Solutions Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Introduction To Solid State Physics Solutions Manual
 - Setting Reading Goals Introduction To Solid State Physics Solutions Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Introduction To Solid State Physics Solutions Manual
 - Fact-Checking eBook Content of Introduction To Solid State Physics Solutions 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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