

HW#5: Solid State Physics

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PHYS-3120

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1. Electrons in Copper

What is the de Broglie wavelength of electrons in copper?

The Fermi-energy of electrons in copper is $E_F = 7.0354$ eV and the de Broglie wavelength is given by the equation:

$$\lambda = \frac{h}{\sqrt{2 m_e E_F}}$$

```
in[1]: h = Quantity[4.13567 * 10^-15, "Electronvolts" "Seconds"];  
me = Quantity[0.511 / c^2, "Megaelectronvolts"];  
ef = Quantity[7.0354, "Electronvolts"];  
c = Quantity[3 * 10^8, "Meters" "Seconds"^-1];  
  
w1 = h / Sqrt[2 * me * ef]  
  
out[1]:  
4.62698 * 10^-10 m
```

The de Broglie wavelength of electrons in copper is 0.463 nm.

Compare the de Broglie wavelength to the atomic separation in copper.

The density of copper is $8.94 \text{ g}\cdot\text{cm}^{-3}$ and its mass is $63.546 \text{ g}\cdot\text{mol}^{-1}$.

We can find the atomic separation of copper by:

$$d = \left(\frac{63.546 \text{ g}}{\text{mol}} \times \frac{\text{cm}^3}{8.94 \text{ g}} \times \frac{1 \text{ mol}}{6.022 \cdot 10^{23}} \right)^{1/3}$$

Ssphysics Text

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Table of Contents Ssphysics Text

1. Understanding the eBook Ssphysics Text
 - The Rise of Digital Reading Ssphysics Text
 - Advantages of eBooks Over Traditional Books
2. Identifying Ssphysics Text
 - 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 Ssphysics Text
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ssphysics Text
 - Personalized Recommendations
 - Ssphysics Text User Reviews and Ratings
 - Ssphysics Text and Bestseller Lists

5. Accessing Ssphysics Text Free and Paid eBooks
 - Ssphysics Text Public Domain eBooks
 - Ssphysics Text eBook Subscription Services
 - Ssphysics Text Budget-Friendly Options
6. Navigating Ssphysics Text eBook Formats
 - ePub, PDF, MOBI, and More
 - Ssphysics Text Compatibility with Devices
 - Ssphysics Text Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ssphysics Text
 - Highlighting and Note-Taking Ssphysics Text
 - Interactive Elements Ssphysics Text
8. Staying Engaged with Ssphysics Text
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ssphysics Text
9. Balancing eBooks and Physical Books Ssphysics Text
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ssphysics Text
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ssphysics Text
 - Setting Reading Goals Ssphysics Text
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ssphysics Text
 - Fact-Checking eBook Content of Ssphysics Text
 - 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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