

## Solutions to Problems in Solid State Physics II

### Problem 2005-I

$\varepsilon_A$  is the maximum energy of band 1 (follows from the specification of the Fermi surface). The number of electronic states in one band, within the 1. Brillouin zone, is twice the number of  $k$  states, i.e. twice the number of unit cells in the system. If  $\varepsilon_h < \varepsilon_e$  all states in band 1, and no states in band 2, would be occupied by electrons at zero temperature, implying that

1) the system would be an insulator (or semiconductor).

The reciprocal lattice of an fcc is a bcc lattice. In the bcc reciprocal lattice there are 8 equivalent (111) reciprocal lattice points lying at the corners of the 1. Brillouin zone, each counting one-eighth. This implies that there is, effectively, one hole and one electron Fermi surface in one Brillouin zone. With the use of the notation introduced on the figure, we have:

$$\varepsilon_F = \varepsilon_e + \frac{(\hbar k_e)^2}{2m_e} = \varepsilon_h - \Delta + \frac{(\hbar k_h)^2}{2m_h}, \quad \varepsilon_F = \varepsilon_h - \frac{(\hbar k_h)^2}{2m_h}. \quad (1)$$

The number of holes (i.e. the number of missing electrons) in band 1 is equal to the number of electrons occupying band 2, i.e.

$$n = p. \quad (2)$$

and since both bands are parabolic, we may use Marder eq. (6.29) to obtain the lengths of the two Fermi wave vectors:

$$k_e = (3\pi^2 n)^{1/3}, \quad \text{and equivalently} \quad k_h = (3\pi^2 p)^{1/3}. \quad (3)$$

These equations are straightforwardly solved, and we get

$$2) \quad \varepsilon_F = \varepsilon_A - \frac{m_e}{m_e + m_h} \Delta.$$

$$3) \quad n = p = \frac{1}{3\pi^2} \left( \frac{2\Delta}{\hbar^2} \frac{m_e m_h}{m_e + m_h} \right)^{3/2}.$$

According to Marder eqs. (6.77) and (6.23), the specific heat is

$$c_V = \frac{\pi^2}{3} k_B^2 T D(\varepsilon_F), \quad D(\varepsilon_F) = \frac{m}{\hbar^3 \pi^2} \sqrt{2m\varepsilon_F} = \frac{mk_F}{\hbar^2 \pi^2}, \quad (4)$$

in the case of a parabolic band, when  $T \ll \varepsilon_F/k_B$ . In the present case, we need to require  $T \ll \Delta/k_B$ , and adding the electron- and hole-like contributions,

$$D(\varepsilon_F) = \frac{m_e k_e}{\hbar^2 \pi^2} + \frac{m_h k_h}{\hbar^2 \pi^2} = \frac{m_e + m_h}{\hbar^2 \pi^2} \left( \frac{2\Delta}{\hbar^2} \frac{m_e m_h}{m_e + m_h} \right)^{1/2} \quad (5)$$

the result is

$$4) \quad \gamma = c_V/T = \frac{k_B^2}{3\hbar^2} \sqrt{2m_e m_h (m_e + m_h) \Delta}.$$

# Problems In Solid State Physics With Solutions

**CL Gary**



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### **Table of Contents Problems In Solid State Physics With Solutions**

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

5. Accessing Problems In Solid State Physics With Solutions Free and Paid eBooks
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  - Problems In Solid State Physics With Solutions Budget-Friendly Options
6. Navigating Problems In Solid State Physics With Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Problems In Solid State Physics With Solutions Compatibility with Devices
  - Problems In Solid State Physics With Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Problems In Solid State Physics With Solutions
  - Highlighting and Note-Taking Problems In Solid State Physics With Solutions
  - Interactive Elements Problems In Solid State Physics With Solutions
8. Staying Engaged with Problems In Solid State Physics With Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Problems In Solid State Physics With Solutions
9. Balancing eBooks and Physical Books Problems In Solid State Physics With Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Problems In Solid State Physics With Solutions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Problems In Solid State Physics With Solutions
  - Setting Reading Goals Problems In Solid State Physics With Solutions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Problems In Solid State Physics With Solutions
  - Fact-Checking eBook Content of Problems In Solid State Physics With Solutions
  - 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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web oct 26 2023 there are 19 aid stations for the marathon nine for the half marathon four for the 10km race and two for the 5km race allowing runners to focus on their performance with confidence it s advised for marathon runners to consume 5 10 ml of fluid per kilogram of body weight in the 2 4 hours leading up to the marathon to ensure optimal hydration