

Solutions to Problems in Solid State Physics II

Problem 2005-I

ε_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

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

Solid State Physics Problems And Solutions

Yung-kuo Lim



Solid State Physics Problems And Solutions:

Problems In Solid State Physics With Solutions Fuxiang Han, 2011-10-31 This book provides a practical approach to consolidate one's acquired knowledge or to learn new concepts in solid state physics through solving problems. It contains 300 problems on various subjects of solid state physics. The problems in this book can be used as homework assignments in an introductory or advanced course on solid state physics for undergraduate or graduate students. It can also serve as a desirable reference book to solve typical problems and grasp mathematical techniques in solid state physics. In practice it is more fascinating and rewarding to learn a new idea or technique through solving challenging problems rather than through reading only. In this aspect this book is not a plain collection of problems but it presents a large number of problem solving ideas and procedures some of which are valuable to practitioners in condensed matter physics.

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László Mihály, Michael C Martin, 2009-02-24 The ideal companion in condensed matter physics now in new and revised edition. Solving homework problems is the single most effective way for students to familiarize themselves with the language and details of solid state physics. Testing problem solving ability is the best means at the professor's disposal for measuring student progress at critical points in the learning process. This book enables any instructor to supplement end of chapter textbook assignments with a large number of challenging and engaging practice problems and discover a host of new ideas for creating exam questions. Designed to be used in tandem with any of the excellent textbooks on this subject. *Solid State Physics Problems and Solutions* provides a self study approach through which advanced undergraduate and first year graduate students can develop and test their skills while acclimating themselves to the demands of the discipline. Each problem has been chosen for its ability to illustrate key concepts, properties and systems knowledge of which is crucial in developing a complete understanding of the subject including Crystals, diffraction and reciprocal lattices, Phonon dispersion and electronic band structure, Density of states, Transport, magnetic and optical properties, Interacting electron systems, Magnetism, Nanoscale Physics.

Problems and Solutions in Solid State Physics S. O. Pillai, 1994-01-01

Understanding

Solid State Physics Jacques Cazaux, 2016-03-23 The correlation between the microscopic composition of solids and their macroscopic electrical, optical, thermal properties is the goal of solid state physics. This book is the deeply revised version of the French book *Initiation à la physique du solide exercices commentés avec rappels de cours* written more than 20 years ago. It has five sections.

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SOLID STATE PHYSICS S. D. Aghav,B. M. Laware,P. S. Tambade,2019-08 The problems are judiciously selected and are given topic and section wise The approach is straight forward and step by step solutions are elaborately provided More importantly the relevant formulas used for solving the problems can be located in the beginning of each chapter There are

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Table of Contents Solid State Physics Problems And Solutions

1. Understanding the eBook Solid State Physics Problems And Solutions
 - The Rise of Digital Reading Solid State Physics Problems And Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Solid State Physics Problems And 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 Solid State Physics Problems And Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solid State Physics Problems And Solutions
 - Personalized Recommendations

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