

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 $\varepsilon_h < \varepsilon_c$ 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:

$$\varepsilon_F = \varepsilon_c + \frac{(\hbar k_c)^2}{2m_c} = \varepsilon_h - \Delta + \frac{(\hbar k_h)^2}{2m_h}, \quad \varepsilon_F = \varepsilon_h - \frac{(\hbar k_h)^2}{2m_h}. \quad (1)$$

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:

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

These equations are straightforwardly solved, and we get

$$\begin{aligned} 2) \quad \varepsilon_F &= \varepsilon_h - \frac{m_c}{m_c + m_h} \Delta. \\ 3) \quad n = p &= \frac{1}{3\pi^2} \left(\frac{2\Delta}{\hbar^2} \frac{m_c m_h}{m_c + m_h} \right)^{3/2}. \end{aligned}$$

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,

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

the result is

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

Physics 3 Problems Ii Solid State Physics

Attilio Rigamonti, Pietro Carretta



Physics 3 Problems II Solid State Physics:

College of Engineering University of Michigan. College of Engineering, 1998 *University of Michigan Official Publication* University of Michigan, 1988 Each number is the catalogue of a specific school or college of the University

Nuclear Science Abstracts, 1976 *Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy* United States Air Force Academy, 2004 *Undergraduate Catalog* University of Michigan--Dearborn, 2009 Catalogue United States Naval Academy, 1990 **Title Announcement Bulletin**, 1957

Subject Catalog, 1981 Library of Congress, 1981 **Index to Conferences Relating to Nuclear Science** Willie E. Clark, Doris H. McGinnis, 1968 **1968, Teil III: Pflanzen-Zytron**, 2021-12-20 Keine ausführliche Beschreibung für 1968 Teil III Pflanzen Zytron verfügbar *Official Gazette* Philippines, 2011 *Annapolis, the United States Naval Academy Catalog* United States Naval Academy, 1973 **Annual Catalogue** United States Air Force Academy, 1984 The University of Virginia Record University of Virginia, 1985 **Structure of Matter** Attilio Rigamonti, Pietro Carretta, 2015-06-13 This textbook now in its third edition provides a formative introduction to the structure of matter that will serve as a sound basis for students proceeding to more complex courses thus bridging the gap between elementary physics and topics pertaining to research activities The focus is deliberately limited to key concepts of atoms molecules and solids examining the basic structural aspects without paying detailed attention to the related properties For many topics the aim has been to start from the beginning and to guide the reader to the threshold of advanced research This edition includes four new chapters dealing with relevant phases of solid matter magnetic electric and superconductive and the related phase transitions The book is based on a mixture of theory and solved problems that are integrated into the formal presentation of the arguments Readers will find it invaluable in enabling them to acquire basic knowledge in the wide and wonderful field of condensed matter and to understand how phenomenological properties originate from the microscopic quantum features of nature **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1977

World Directory of Crystallographers Yves Epelboin, 2013-11-11 The 9th edition of the World Directory of Crystallographers and of Other Scientists Employing Crystallographic Methods which contains 7907 entries embracing 72 countries differs considerably from the 8th edition published in 1990 The content has been updated and the methods used to acquire the information presented and to produce this new edition of the Directory have involved the latest advances in technology The Directory is now also available as a regularly updated electronic database accessible via e mail Telnet Gopher World Wide Web and Mosaic Full details are given in an Appendix to the printed edition **Quantenfeldtheorie des Festkörpers** H. Haken, 2013-03-09 Die Festkörperphysik ist eines der großen Hauptgebiete der heutigen Physik Der Festkörper stellt mit seinen verwickelten elektrischen optischen thermischen und magnetischen Eigenschaften ein äußerst reizvolles Objekt moderner Grundlagenforschung dar In der Tat gelingt es hier die oft sehr komplizierten Erscheinungen aufzuklären

und bis in die Details hinein zu verfolgen. Das damit verbundene tief greifende Verständnis der physikalischen Vorgänge im Festkörper führt darüber hinaus zu den ersten wichtigen Anwendungen z.B. in der Nachrichtentechnik und Computertechnik. Der Studierende, der sich in dieses Gebiet einarbeiten will, stellt allerdings sehr rasch fest, dass hier in großem Umfang Begriffsbildungen und Methoden der Quantenfeldtheorie verwendet werden. Diese Methoden gestatten es nicht nur, die physikalischen Vorgänge im Festkörper in eleganter Weise zu beschreiben, sondern sie haben auch zu grundsätzlich neuen Erkenntnissen geführt. Als hervorragendes Beispiel sei hier nur die Erklärung der Supraleitung erwähnt. Andererseits wird dem Studierenden in einer Kursvorlesung etwa der Quantenmechanik kaum die Möglichkeit geboten, dieses wichtige Gebiet kennenzulernen. Aufgabe dieses Buches soll es sein, diese Lücke zu schließen, indem es den Leser in einfacher Weise an die Begriffsbildungen und Methoden der Quantenfeldtheorie heranführt. So sollte ein Leser, der mit den mathematischen Kenntnissen der ersten drei Semester und den Grundbegriffen der Quantenmechanik vertraut ist, ohne weiteres in der Lage sein, sich mit Hilfe dieses Buches in die Quantenfeldtheorie des Festkörpers einzuarbeiten.

University of Kentucky Catalogue University of Kentucky, 1971 **Optik und ihre Phänomene** Michael Vollmer, 2025-01-29. Dieses Lehr- und Sachbuch präsentiert die Grundlagen der Optik in Theorie und ausführlich beschriebenen Experimenten sowie vielfältige faszinierende optische Phänomene. Ob in Vorlesungen, Seminaren, für Projektarbeiten, Schulunterricht oder Selbststudium, dieses Buch ist eine wertvolle Ressource für alle, die sich für Optik interessieren. Durch die große Zahl zitierter Originalarbeiten schließt es nicht nur die Brücke zur Lehre, sondern auch zur Forschung. Besonderheiten: Das Buch besticht durch seine über 1000 Abbildungen, darunter über 200 qualitativ hochwertige Farbfotos optischer Naturphänomene sowie einer großen Zahl an wissenschaftlichen und physikdidaktischen Literaturangaben für weiterführende Studien. Die Kapitel sind jeweils auch einzeln lesbar, aber zusammen ist es eine einmalige Kombination aus einfachem Lehrbuch der klassischen Optik und detaillierter up-to-date Zusammenstellung von Anwendungen im Bereich optischer Naturphänomene. Thematisch spannt es einen sehr weiten Bogen von geometrischer Wellen- und Quantenoptik, Radiometrie und Photometrie über Farbtheorien und technische Anwendungen wie Spektroskopie bis hin zu Naturphänomenen oder der Frage, warum der Himmel nachts dunkel ist. Die Grundlagen werden vertieft durch zahlreiche Verständnisfragen und Übungsaufgaben, zusätzlich zu vielen Anwendungsbeispielen, die von Fensterreflexionen über Lichtwellenleiter und Smartphoneobjektive bis hin zu modernen Beamern reichen.

Inhalt: 1. Einleitung 2. Geometrische Optik 3. Wellenoptik 4. Wechselwirkung von Strahlung mit Materie 5. Quantenoptik 6. Detektoren und Lichtquellen 7. Visuelle Wahrnehmung 8. Die Atmosphäre der Erde 9. Luftspiegelungen 10. Regenbögen 11. Koronen, Glorien und verwandte Erscheinungen 12. Haloerscheinungen am Himmel 13. Lichtstreuung und Himmelsfarben 14. Weitere Phänomene aufgrund von Lichtstreuung 15. Bis in die Stratosphäre und darüber hinaus.

Neuerungen zur 2. Aufl.: Der erste Lehrbuchteil zu den Grundlagen ist komplett neu hinzugefügt. Der zweite Teil zu den Anwendungen und Naturphänomenen wurde komplett bearbeitet und aktualisiert. Zudem illustrieren nun über 200 Farbfotos

die Ph nomene Die Zielgruppe Sowohl interessierte Laien mit und ohne Vorwissen und Lehrkr fte an Schulen als auch Studierende diverser Fachrichtungen sowie deren Lehrende profitieren von dieser umfangreichen Zusammenstellung Optik wird nicht nur im Bachelor bzw Master in Physik u Astronomie bzw Astrophysik sowie in den Naturwissenschaften thematisiert sondern auch in Studieng ngen mit Schwerpunkten wie Licht und Beleuchtungstechnik Lasertechnik optische Technologien Optoelektronik und Photonik Augenoptik Meteorologie uvm Vorkenntnisse Erforderlich ist kein besonderes Vorwissen allerdings erm glichen manche der angegebenen Querbez ge ein tieferes Verst ndnis welches sich erst mit Vorkenntnissen aus einigen Grundlagenf chern der Physik insbesondere des Elektromagnetismus der Festk rperphysik sowie der Quantenphysik vollst ndig erschlie t

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