

Solutions to the problems in Chapter 6 and 7

6.3 Pressure of a Fermi gas at zero temperature

The number of electrons N and the internal energy U , in the volume V , are

$$N = V \int_0^\infty D(\varepsilon) f(\varepsilon) d\varepsilon, \quad U = V \int_0^\infty \varepsilon D(\varepsilon) f(\varepsilon) d\varepsilon, \quad (1)$$

The Fermi distribution function $f(\varepsilon)$ and the density of states (per unit volume) $D(\varepsilon)$ are

$$f(\varepsilon) = \frac{1}{e^{\beta(\varepsilon - \mu)} + 1}, \quad D(\varepsilon) = A\sqrt{\varepsilon}, \quad A = \frac{\sqrt{2m^3}}{\pi^2 \hbar^3}. \quad (2)$$

At zero temperature

$$f(\varepsilon) = \theta(\varepsilon_F - \varepsilon), \quad \varepsilon_F = \frac{\hbar^2 k_F^2}{2m}, \quad k_F = (3\pi^2 n)^{1/3} \quad (3)$$

Introducing the step function and $D(\varepsilon) = A\sqrt{\varepsilon}$ in (1), we may determine $U(0)$ and an alternative expression for A :

$$N = V \int_0^{\varepsilon_F} A\sqrt{\varepsilon} d\varepsilon = \frac{2}{3} V A \varepsilon_F^{3/2} \Rightarrow A = \frac{3n}{2\varepsilon_F^{3/2}}, \quad U(0) = V \frac{2}{5} A \varepsilon_F^{5/2} = \frac{2}{5} N \varepsilon_F \quad (4)$$

i.e. $U \propto \varepsilon_F \propto k_F^2 \propto V^{-2/3}$ and the pressure at zero temperature is

$$P = -\frac{\partial U(0)}{\partial V} = \frac{2}{3} \frac{U}{V} = \frac{2}{5} n \varepsilon_F = \frac{(3\pi^2)^{2/3} \hbar^2 n^{5/3}}{5m} \quad (5)$$

in sharp contrast to a classical gas, where the zero-temperature pressure is zero.

6.4 Density of states in low dimensions

The density of states in $\vec{k}$ -space is $D_{\vec{k}} = 2/(2\pi)^d$ in d dimensions (6.34)

$$D(\varepsilon) = \int |d\vec{k}| \delta(\varepsilon - \varepsilon_{\vec{k}}) \equiv \int D_{\vec{k}} \delta(\varepsilon - \varepsilon_{\vec{k}}) d\vec{k} = \frac{2}{(2\pi)^d} \int \delta(\varepsilon - \varepsilon_{\vec{k}}) d\vec{k} \quad (1)$$

Introducing “spherical coordinates” in d dimensions and $k = |\vec{k}|$, then

$$d\vec{k} = \begin{cases} 2 dk & , \quad d = 1 \\ 2\pi k dk & , \quad d = 2 \\ 4\pi k^2 dk & , \quad d = 3 \end{cases} \quad (2)$$

The factor 2 in the one-dimensional case appears because the one-dimensional wave vector may assume both positive and negative values, whereas $k \geq 0$ per definition.

$$\varepsilon_{\vec{k}} = \varepsilon_k = \frac{\hbar^2 k^2}{2m} \quad \Rightarrow \quad k = \frac{\sqrt{2m\varepsilon_k}}{\hbar}, \quad dk = \left(\frac{m}{2\hbar^2 \varepsilon_k} \right)^{1/2} d\varepsilon_k \quad \Rightarrow \quad (3)$$

$$D(\varepsilon) = \begin{cases} \frac{2}{2\pi} \int_0^\infty 2 \delta(\varepsilon - \varepsilon_k) \left(\frac{m}{2\hbar^2 \varepsilon_k} \right)^{1/2} d\varepsilon_k = & \frac{\sqrt{2m}}{\pi \hbar} \varepsilon^{-1/2}, \quad d = 1 \\ \frac{2}{(2\pi)^2} \int_0^\infty 2\pi \frac{\sqrt{2m\varepsilon_k}}{\hbar} \delta(\varepsilon - \varepsilon_k) \left(\frac{m}{2\hbar^2 \varepsilon_k} \right)^{1/2} d\varepsilon_k = & \frac{m}{\pi \hbar^2}, \quad d = 2 \\ \frac{2}{(2\pi)^3} \int_0^\infty 4\pi \frac{2m\varepsilon_k}{\hbar^2} \delta(\varepsilon - \varepsilon_k) \left(\frac{m}{2\hbar^2 \varepsilon_k} \right)^{1/2} d\varepsilon_k = & \frac{\sqrt{2m^3}}{\pi^2 \hbar^3} \varepsilon^{1/2}, \quad d = 3 \end{cases}$$

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Amitabh Chandra



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Foundations of Nanomechanics Andrew N. Cleland, 2013-03-09 Why write another book on mechanics There are after all a number of excellent texts that describe in great detail the way classical solids behave when acted upon by static and time varying forces many of these are cited in this monograph These texts treat solids as continuous objects and quantum mechanics does not enter the discussion Furthermore the atomic nature of the solid is implicit but does not enter in a central role At the other end of the spectrum texts on condensed matter physics focus on the quantum mechanical nature of the solid these contain quite clear descriptions of acoustic waves in solids describing their dynamic and thermal properties and how they interact with electrons in the solid but contain little information regarding bulk deformations This text focussing on the mechanics of very small objects attempts to provide a link between these two approaches in addition to describing the theories of both the classical and the quantum mechanical solid I attempt to outline where the classical description breaks down and quantum mechanics must be applied to understand the behavior of a nanoscale object I have tried to merge the continuum description of the solid with the atomic one and to show how and where quantum mechanics plays a role especially as the size scale of the system is reduced making the quantized energy scale larger and the role of thermal vibrations more important

Fundamentals of Solid-state Electronics Chih-Tang Sah, 1991 This is perhaps the most comprehensive undergraduate textbook on the fundamental aspects of solid state electronics It presents basic and state of the art topics on materials physics device physics and basic circuit building blocks not covered by existing textbooks on the subject Each topic is introduced with a historical background and motivations of device invention and circuit evolution Fundamental physics is rigorously discussed with minimum need of tedious algebra and advanced mathematics Another special feature is a systematic classification of fundamental mechanisms not found even in advanced texts It bridges the gap between solid state device physics covered here with what students have learnt in their first two years of study Used very successfully in a one semester introductory core course for electrical and other engineering materials science and physics junior students the second part of each chapter is also used in an advanced undergraduate course on solid state devices The inclusion of previously unavailable analyses of the basic transistor digital circuit building blocks and cells makes this an excellent reference for engineers to look up fundamental concepts and data design formulae and latest devices such as the GeSi heterostructure bipolar transistors

Electromagnetic Waves Carlo G. Someda, 2017-12-19 Adapted from a successful and thoroughly field tested Italian text the first edition of Electromagnetic Waves was very well received Its broad integrated coverage of electromagnetic waves and their applications forms the cornerstone on which the author based this second edition Working from Maxwell's equations to applications in optical communications and photonics Electromagnetic Waves Second Edition forges a link between basic physics and real life problems in wave propagation and radiation Accomplished researcher and educator Carlo G Someda uses a modern approach to the subject Unlike other books in the

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Quantum Theory

Charis Anastopoulos, 2023-08-31 The ideal text for a two semester graduate course on quantum mechanics Fresh comprehensive and clear it strikes the optimal balance between covering traditional material and exploring contemporary topics Focusing on the probabilistic structure of quantum mechanics and the central role of symmetries to unify principles this textbook guides readers through the logical development of the theory Students will also learn about the more exciting and controversial aspects of quantum theory with discussions on past interpretations and the current debates on cutting edge concepts such as quantum information and entanglement open quantum systems and quantum measurement theory The book has two types of content Type A material is more elementary and is fully self contained functioning like a separate book within the book while Type B content is at the level of a graduate course Requiring minimal physics background this textbook is appropriate for mathematics and engineering students in addition to physicists Introducing cutting edge topics in the field the book features about 150 concept checking questions 300 homework problems and a solutions manual

Photonic

Probes of Surfaces P. Halevi, 2012-12-02 This volume is devoted principally to optical spectroscopies of material surfaces and also encompasses scattering techniques and theoretical response analysis as well as spectroscopies In addition to solid surfaces some attention is also devoted to interfaces between two solids between a solid and a liquid and to a liquid vapor interface These surfaces may be clean and perfect in which case the purpose of the spectroscopical method at hand is to determine the deviation of the atomic structure in the surface region from that in the bulk namely the surface reconstruction Otherwise the surface may be imperfect due to roughness strain or overlayers in which case the spectroscopy can yield information on the nature of such imperfections including the monitoring of growth processes One of the foremost purposes of surface spectroscopies is to extract information on atomic and molecular adsorbates on solid surfaces Most of the 10 chapters are concerned with photonic sources of excitation the respective spectral regions ranging from the far infrared to X rays In conclusion this book provides a state of the art review of all major types of photonic probes of surfaces and interfaces and deals with both applications and experiment and theory

Molecular Dynamics Simulation Studies of Liquid

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Mermin, 1976 This book provides an introduction to the field of solid state physics for undergraduate students in physics

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Pair and Triplet Interactions in Wide Band Systems James Arthur Porter, 2001 Photocatalysis Nick Serpone, Ezio Pelizzetti, 1989-10-20 Contributors from around the world offer wide ranging and sometimes controversial discussions of the state of research in photocatalysis Emphasis is on the surface science of catalysis especially at the gas solid interface Eighteen chapters explore topics ranging from the interaction between light and matter colloidal semiconductors and the thermodynamics and kinetics of photocatalysis to photocatalysis in homogeneous and heterogeneous phases photo electrocatalysis and catalysis in energy production and water purification The New Encyclopædia Britannica: Macropædia : Knowledge in depth ,2002

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