

CHAPTER 6

1. The energy eigenvalues are  $\epsilon_k = \frac{\hbar^2}{2m} k^2$ . The mean value over the volume of a sphere in  $k$  space is

$$\langle \epsilon \rangle = \frac{\hbar^2}{2m} \frac{\int k^2 dk \cdot k^2}{\int k^2 dk} = \frac{3}{5} \cdot \frac{\hbar^2}{2m} k_r^2 = \frac{3}{5} \epsilon_r.$$

The total energy of  $N$  electrons is

$$U_0 = N \cdot \frac{3}{5} \epsilon_r.$$

2a. In general  $p = -\partial U_0 / \partial V$  at constant entropy. At absolute zero all processes are at constant entropy (the Third Law), so that  $p = -dU_0 / dV$ , where  $U_0 = \frac{3}{5} N \epsilon_r = \frac{3}{5} N \frac{\hbar^2}{2m} \left( \frac{3\pi^2 N}{V} \right)^{2/3}$ , whence

$$p = \frac{2}{3} \cdot \frac{U_0}{V}, \quad (\text{b) Bulk modulus}$$

$$B = -V \frac{dp}{dV} = V \left( -\frac{2}{3} \frac{U_0}{V^2} + \frac{2}{3V} \frac{dU_0}{dV} \right) = \frac{2}{3} \cdot \frac{U_0}{V} + \left( \frac{2}{3} \right)^2 \frac{U_0}{V} = \frac{10}{9} \frac{U_0}{V}.$$

(c) For Li,

$$\begin{aligned} \frac{U_0}{V} &= \frac{3}{5} (4.7 \times 10^{22} \text{ cm}^{-3}) (4.7 \text{ eV}) (1.6 \times 10^{-12} \text{ erg/eV}) \\ &= 2.1 \times 10^{11} \text{ erg cm}^{-3} = 2.1 \times 10^{11} \text{ dyne cm}^{-2}, \end{aligned}$$

whence  $B = 2.3 \times 10^{11} \text{ dyne cm}^{-2}$ . By experiment (Table 3.3),  $B = 1.2 \times 10^{11} \text{ dyne cm}^{-2}$ .

3. The number of electrons is, per unit volume,  $n = \int_0^\infty d\epsilon D(\epsilon) \cdot \frac{1}{e^{(\epsilon-\mu)/kT} + 1}$ , where  $D(\epsilon)$  is the density of orbitals. In two dimensions

$$\begin{aligned} n &= \frac{m}{\pi \hbar^2} \int_0^\infty d\epsilon \frac{1}{e^{(\epsilon-\mu)/kT} + 1} \\ &= \frac{m}{\pi \hbar^2} (\mu + kT \log(1 + e^{-\mu/kT})), \end{aligned}$$

where the definite integral is evaluated with the help of Dwight [569, 1].

4a. In the sun there are  $\frac{2 \times 10^{33}}{1.7 \times 10^{-24}} = 10^{57}$  nucleons, and roughly an equal number of electrons. In a white dwarf star of volume

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**JS Bruner**



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**Atomistic Spin Dynamics** Olle Eriksson, Anders Bergman, Lars Bergqvist, Johan Hellsvik, 2017-02-10 The purpose of this book is to provide a theoretical foundation and an understanding of atomistic spin dynamics ASD and to give examples of where the atomistic Landau Lifshitz Gilbert equation can and should be used As argued in the text a description of magnetism in an atomistic way is very natural and allows for an interpretation of experimental results in a clear and deep way This description also allows for calculations from first principles of all parameters needed to perform the spin dynamics simulations without using experimental results as input to the simulations As shown in the book we are now at a very exciting situation where it is possible to perform accurate and efficient atomistic simulations on a length and time scale which is balancing on the edge of what is experimentally possible In this way ASD simulations can both validate and be validated by state of the art experiments and ASD simulations also have the possibility to act as a predictive tool that is able to explain the magnetization dynamics in experimentally inaccessible situations The purpose of this book has been to communicate technically relevant concepts An even larger motivation is to communicate an inspiration to magnetism and magnetization dynamics and the emerging technological fields that one may foresee e g in magnonics solitonics and skyrmionics

[An Introduction To Statistical Thermodynamics](#) Robert P H Gasser, Richards W Graham, 1995-09-26 Statistical thermodynamics plays a vital linking role between quantum theory and chemical thermodynamics yet students often find the subject unpalatable In this updated version of a popular text the authors overcome this by emphasising the concepts involved in particular demystifying the partition function They do not get bogged down in the mathematical niceties that are essential for a profound study of the subject but which can confuse the beginner Strong emphasis is placed on the physical basis of statistical thermodynamics and the relations with experiment After a clear exposition of the distribution laws partition functions heat capacities chemical equilibria and kinetics the subject is further illuminated by a discussion of low temperature phenomena and spectroscopy The coverage is brought right up to date with a chapter on computer simulation and a final section which ranges beyond the narrow limits usually associated with student texts to emphasise the common dependence of macroscopic behaviour on the properties of constituent atoms and molecules Since first published in 1974 as Entropy and Energy Levels the book has been

very popular with students This revised and updated version will no doubt serve the same needs      **Polymer Science and Engineering II** Katsuyuki Kida,2021-06-09 Selected peer reviewed full text papers from the 4th International Conference on Composite Material Polymer Science and Engineering 4th CMPSE Selected peer reviewed papers from the 4th International Conference on Composite Material Polymer Science and Engineering CMPSE2020 December 06 07 2020 virtual South Korea

**The Ionic Double Layer on Zinc Oxide in Aqueous Electrolyte Solutions** Lodewijk Blok,1968      Transmission Electron Microscopy David B. Williams,C. Barry Carter,2009-08-05 This profusely illustrated text on Transmission Electron Microscopy provides the necessary instructions for successful hands on application of this versatile materials characterization technique The new edition also includes an extensive collection of questions for the student providing approximately 800 self assessment questions and over 400 questions suitable for homework assignment      *Modern Physics* Robert L. Sproull,1956      *Micromachined VLSI Sensors* Patricia Ann Beck,1990      **International Conference on Metals in Solution** Pierre Damay,1991      *Introductory Engineering Field Theory* Martin D. Bradshaw,William J. Byatt,1967 The algebra and calculus of vectors Maxwell s equations Electrostatics Laplace s and Poisson s equations Magnetostatics Maxwell s equations time dependent potentials Helmholtz equations On circuit concepts derivable from consideration of fields On electro mechanical concepts derivable from consideration of fields Plane wave propagation Cylindrical wave propagation Elements of wave propagation in spherical coordinates      *Entropy and Energy Levels* Robert Paul Holland Gasser,William Graham Richards,1974      Periodica Polytechnica ,1996      **Oriental list (and book review quarterly)**. Luzac and co,1900

*Bulletin* Poznańskie Towarzystwo Przyjaciół Nauk,1968      Crystal Physics German Stepanovich Zhdanov,1965      The Quantum Theory of Gravitation Vasily Yanchilin,2003      **Magnetism and Metallurgy** Ami E. Berkowitz,Eckart Kneller,1969      **Encyclopædia Biblica: E to K** Thomas Kelly Cheyne,1901      Berkeley Physics Course: Quantum physics, by E. H. Wichmann Charles Kittel,1965 Introductory college physics course for students majoring in science and engineering

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