

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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