CHAPTER 7

7.1) DENSITY OF ORBITALS IN ONE AND TWO DIMENSIONS

(a) In one dimension, $\psi(x) = A \sin(n\pi x/L)$, analogously to (3.58). Here n is an integer. The number of electrons that can be accompated in the orbitals up to a given quantum number n is N = 2n, where the factor 2 arises from the electron spin. The corresponding maximum energy is

$$\varepsilon = \frac{N^2}{2m} \left(\frac{n\pi}{L} \right)^2 = \frac{1}{2m} \left(\frac{\pi MN}{2L} \right)^2 ; N = (2L/\pi)(2m\epsilon)^{\frac{3}{2}} . (S1)$$

If N is the total number of electrons actually present, then ϵ is the Fermi energy $\epsilon_{\rm F}.$ From (S1):

$$\frac{d\varepsilon}{\varepsilon} = \frac{2dN}{N}$$
, $\mathcal{D}_{1}(\varepsilon) = \frac{dN}{d\varepsilon} = \frac{N}{2\varepsilon} = (L/\pi)(2m/\varepsilon)^{\frac{1}{2}}$.

(b) In two dimensions, the relation between the number of electrons N and the highest orbital n is

$$N = 2 \times (\pi n^2/4)$$
, $n = (2N/\pi)^{\frac{1}{2}}$.

Therefore

$$\varepsilon = \frac{\aleph^2}{2m} \left(\frac{n\pi}{L} \right)^2 = \frac{\pi \aleph^2 N}{mL^2} , \quad N = L^2 m \varepsilon / \pi \aleph^2 ,$$

$$\mathscr{D}_2(\varepsilon) = \frac{dN}{d\varepsilon} = L^2 m/\pi N^2 = Am/\pi N^2$$
.

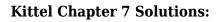
7.2) ENERGY OF RELATIVISTIC FERMI GAS

(a) With the help of (6) -- $n_F = (3N/\pi)^{1/3}$, which remains valid -- we obtain, with $n = N/L^3$:

$$\varepsilon_{\rm F} = p_{\rm F}c = (M\pi c/L)n_{\rm F} = M\pi c(3n/\pi)^{1/3}$$
.

Kittel Chapter 7 Solutions

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