

## 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 accommodated 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

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

If  $N$  is the total number of electrons actually present, then  $\epsilon$  is the Fermi energy  $\epsilon_F$ . From (S1):

$$\frac{d\epsilon}{\epsilon} = \frac{2dN}{N} , \quad \mathcal{D}_1(\epsilon) = \frac{dN}{d\epsilon} = \frac{N}{2\epsilon} = (L/\pi \hbar) (2m/\epsilon)^{1/2} .$$

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

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

Therefore

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

$$\mathcal{D}_2(\epsilon) = \frac{dN}{d\epsilon} = L^2 m / \pi \hbar^2 = Am / \pi \hbar^2 .$$

### 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  $n = N/L^3$ :

$$\epsilon_F = p_F c = (\hbar \pi c / L) n_F = \hbar \pi c (3n/\pi)^{1/3} .$$

# Kittel Chapter 7 Solutions

**N Noddings**



## **Kittel Chapter 7 Solutions:**

The book delves into Kittel Chapter 7 Solutions. Kittel Chapter 7 Solutions is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Kittel Chapter 7 Solutions, encompassing both the fundamentals and more intricate discussions.

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- Chapter 1: Introduction to Kittel Chapter 7 Solutions
- Chapter 2: Essential Elements of Kittel Chapter 7 Solutions
- Chapter 3: Kittel Chapter 7 Solutions in Everyday Life
- Chapter 4: Kittel Chapter 7 Solutions in Specific Contexts
- Chapter 5: Conclusion

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