

Solutions to the problems in Chapter 6

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

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

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.

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

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

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Table of Contents Marder Condensed Matter Physics Solutions

1. Understanding the eBook Marder Condensed Matter Physics Solutions
 - The Rise of Digital Reading Marder Condensed Matter Physics Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Marder Condensed Matter Physics Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Marder Condensed Matter Physics Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Marder Condensed Matter Physics Solutions
 - Personalized Recommendations
 - Marder Condensed Matter Physics Solutions User Reviews and Ratings
 - Marder Condensed Matter Physics Solutions and Bestseller Lists
5. Accessing Marder Condensed Matter Physics Solutions Free and Paid eBooks
 - Marder Condensed Matter Physics Solutions Public Domain eBooks
 - Marder Condensed Matter Physics Solutions eBook Subscription Services
 - Marder Condensed Matter Physics Solutions Budget-Friendly Options
6. Navigating Marder Condensed Matter Physics Solutions eBook Formats

- ePub, PDF, MOBI, and More
- Marder Condensed Matter Physics Solutions Compatibility with Devices
- Marder Condensed Matter Physics Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Marder Condensed Matter Physics Solutions
 - Highlighting and Note-Taking Marder Condensed Matter Physics Solutions
 - Interactive Elements Marder Condensed Matter Physics Solutions
- 8. Staying Engaged with Marder Condensed Matter Physics Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Marder Condensed Matter Physics Solutions
- 9. Balancing eBooks and Physical Books Marder Condensed Matter Physics Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Marder Condensed Matter Physics Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Marder Condensed Matter Physics Solutions
 - Setting Reading Goals Marder Condensed Matter Physics Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Marder Condensed Matter Physics Solutions
 - Fact-Checking eBook Content of Marder Condensed Matter Physics Solutions
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web jan 27 2020 the white city center hosts exhibitions where visitors can learn more about this iconic style the bauhaus center is also worth a visit and hosts weekly guided tours on fridays for a small fee

the legacy of bauhaus in tel avivs white city culture trip - May 04 2023

web dec 24 2019 a mixture of sun worn structures and stunning restorations the 4 000 bauhaus buildings scattered across tel aviv s white city have turned it into a living museum with their eye catching asymmetry long and thin stairwell windows and curved balconies they epitomise an architectural style characterised by functionality

white city tel aviv yafo municipality הנהל הנהל הנהל הנהל - Feb 01 2023

web the white city center wcc was co founded by the tel aviv yafo municipality and the german government at a historical and cultural crossroad in the heart of tel aviv the wcc s mission is to actively preserve the heritage of the white city site and the international style known in israel as the bauhaus the white city center will operate at

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web bauhaus buildings are constructed in a unique manner combining functional purposes with low cost materials and are often white giving the nickname white city to tel aviv they often have rounded balconies and are easy to spot when walking around the city