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kittel chapter 7 1. Homework Statement

This question refers to Kittel's solid-state physics book. I have edition 8. In this chapter, there is a section called the "Empty Lattice Approximation". Kittel C.- Introduction To Solid State Page 3/9

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viscosity is equal to μs , where μ is the shear modulus and s is a characteristic time of motion of each water molecule; s is expected to be of the order of the period of molecular vibration T in ice: $t = c_1 T$

$= 2 c_1 / \dots$, where $\dots = c_2 / m a^2 B$

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modapktown.com € The two solutions are

$M!2 = (C_1 + C_2) (C_1^2 + C_2^2 + 2C_1C_2$

$2 \cos ka)1=2$: Now, chose $C_1 = C$ and C_2

$= 10C$. The solutions are! $1(k= 0) = 0$ and

$! 2(k=$

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Phys624

Question 2. Kronig-Penney Model (Kittel

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7.3). (a) For a square well potential ($U = 0$ for $0 < x < a$, and $U = U_0$ for $b < x < 0$), consider two solutions of the Schrödinger equation: $\psi_I = Ae^{iKx} + Be^{-iKx}$ for $U = 0$; $\psi_{II} = Ce^{Qx} + De^{-Qx}$ for $U = U_0$; (2) For a square well potential, there are 4 boundary conditions. 2 of them are from continuity

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of

SOLID STATE PHYSICS HW#7

Question 1. Square Lattice, free ...

In the same limit this equation has solutions $Ka = \pm \dots$, where $1 \dots$. We expand to obtain $(\dots) (\dots) 21 P 1 2$

$-\dots + \dots - \dots + \dots = -\dots$ 1, which

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has the solution $\epsilon = 0$ and $\epsilon = 2P/\hbar v_F$.

The energy gap is $\Delta = \frac{2P}{\hbar v_F}$.
4. (a) There are two atoms in the basis, and we label them a and b.

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Solution 1. Free energy of a two state

system. (a) $Z = 1 + e^{-\beta \epsilon}$ $F = -k_B T \ln Z =$

$-k_B T \ln(1 + e^{-\beta \epsilon})$ (b) $U = \frac{\epsilon}{1 + e^{\beta \epsilon}}$ $(F = -k_B T \ln Z)$ $@$

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$= e = \frac{1}{2} (1 + e^{-\beta \hbar \omega})$

$\ln(1 + e^{-\beta \hbar \omega}) + e^{-\beta \hbar \omega} (1 + e^{-\beta \hbar \omega})$ Solution

2. Magnetic susceptibility (a) Remember to calculate the multiplicity in the N-spin system (it's not enough to sum up $\exp(-\beta E_s)$ factors). $M = 2sm$ $U = MB = 2smB$

$N = N_+ + N_-$ $2s = N_+ - N_- = N_+ - (N - N_+)$

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Solutions Physics". The student is required
to sketch the free electron energy bands in
the empty lattice approximation and in the
reduced zone scheme, for a fcc lattice, in

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– $\frac{1}{a^0} \frac{1}{a}$ Energy. • Recall nature of

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free electron gas Free electrons in box of size $L \times L \times L$ (artificial but useful) Solved Schrodinger Equation States classified by k with $E(k) = (\hbar^2/2m) k^2$ Periodic boundary conditions convenient: Leads to k .

Energy Bands for Electrons in Crystals
(Kittel Ch. 7)

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[SOLVED] kittel chapter 7 Homework
Statement This question relates to Kittel's
solid-state physics book. I have edition 8. I
just do not understand how the first
Brillioun zone relates to energy gaps. For
example, in Figure 2, I do not understand
the shape of the curve in Figure 2.

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