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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  $\eta$  is equal to  $\mu \tau$ , where  $\mu$  is the shear modulus and  $\tau$  is a characteristic time of motion of each water molecule;  $\tau$  is expected to be of the order of the period of molecular vibration  $T$  in ice:  $\tau = c_1 T = 2 c_1 / \omega$ , where  $\omega = c_2 / m a^2 B$

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modapktown.com € The two solutions are  
 $M!2 = (C_1 + C_2) (C_1^2 + C_2^2 + 2C_1 C_2 \cos ka)$   
 $1=2$ : 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 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 has the solution  $\dots = 0$  and  $\dots = 2P/\dots$ .

The energy gap is  $(\dots) (\dots) (\dots) (\dots) 2 2 2 2 gE h$   
 $2ma 2 h 2ma 4P ./ / = \dots$  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)  $U = \frac{\partial}{\partial \beta} (-k_B T \ln Z) = \frac{\partial}{\partial \beta} (-k_B T \ln(1 + e^{-\beta \epsilon})) = -\frac{\epsilon e^{-\beta \epsilon}}{1 + e^{-\beta \epsilon}}$  Solution 2. Magnetic susceptibility (a) Remember to calculate the multiplicity in the N-spin system (it's not enough to sum up  $\exp(-\beta \epsilon_s)$  factors).  $M = 2sm$   $U_s = MB = 2smB$   $N = N_+ + N_-$   $2s = N_+ - N_- = N_+ - (N - N_+) = 2N_+ - N$

## NOTES AND SOLUTIONS TO THERMAL PHYSICS BY CHARLES KITTLE ...

Where To Download Kittel Chapter 7 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 the [111] direction. Homework Equations Homework 10 { Solution

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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)

[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  
Brillouin 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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