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## **Phys624**

Question 2. Kronig-Penney Model (Kittel 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:  $\psi = A e^{ikx} + B e^{-ikx}$  for  $U = 0$ ;  $\psi = C e^{Qx} + D e^{-Qx}$  for  $U = U_0$ ; (2) For a square well potential, there are 4 boundary conditions. 2 of them are from continuity of

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## SOLID STATE PHYSICS HW#7 Question 1. Square Lattice, free ...

In the same limit this equation has solutions  $Ka = \pi + \delta$ , where  $1\delta$ . We expand to obtain  $( ) ( )$  21 P 1  
2 ( )  $\pi - \delta + - + \delta = - | | ( )$  1, which has the solution  $\delta = 0$  and  $\delta = 2P/\pi$ . The energy gap is  $( ) ( ) ($   
) ( )  $2 2 2 2 gE h 2ma 2 h 2ma 4P ./ / = \pi\delta 4$ . (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)  $Z = 1 + e^{-\beta F} = \ln Z = \ln(1 + e^{-\beta F})$  (b)  $U = -2 \partial(F) / \partial \beta = e^{-\beta F} / (1 + e^{-\beta F}) = \ln(1 + e^{-\beta F}) + e^{-\beta F} / (1 + e^{-\beta F})$  Solution 2. Magnetic susceptibility  
(a) Remember to calculate the multiplicity in the N-spin system (it's not enough to sum up  $\exp(-\beta s)$   
factors).  $M = 2sm$   $U = MB = 2smB$   $N = N + + N$   $2s = N + N = N + (N N$

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

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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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Energy Bands for Electrons in Crystals (Kittel Ch. 7) Energy Bands for Electrons in Crystals (Kittel Ch.  
7) Energy Gap  $k = -\pi/a$   $0\pi/a$  Energy. • Recall nature of free electron gas Free electrons in box of size L  
 $x L x L$  (artificial but useful) Solved Schrodinger Equation States classified by  $k$  with  $E(k) = (\hbar^2/2m) k^2$   
Periodic boundary conditions convenient: Leads to  $k = \pi n/L$

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

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