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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:  $\psi_I = A e^{iKx} + B e^{-iKx}$  for  $U = 0$ ;  $\psi_{II} = C e^{Qx} + D e^{-Qx}$  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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Solution 1. Free energy of a two state system. (a)  $Z = 1 + e^{-\beta E}$   $F = -k_B T \ln Z = -k_B T \ln(1 + e^{-\beta E})$  (b)  $U = -\partial F / \partial \beta = E e^{-\beta E} / (1 + e^{-\beta E})$  Solution 2. Magnetic susceptibility (a) Remember to calculate the multiplicity in the N-spin system (it's not enough to sum up  $e^{-\beta E}$  factors).  $M = 2sm$   $U = MB = 2smB$   $N = N_+ + N_-$   $2s = N_+ - N_- = N_+ - (N - N_+) = 2N_+ - N$

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

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Solutions of Selected Problems and Answers 785 Chapter 3 Problem 3.1s According to (3.1) the viscosity  $\eta$  is equal to  $\eta = \tau / \dot{\gamma}$ , where  $\tau$  is the shear modulus and  $\dot{\gamma}$  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:  $\tau = c_1 T = 2\pi c_1 / \omega$ , where  $\omega = c_2 / m a^2 B$

*Solutions of Selected Problems and Answers*

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