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- Check: A periodic function satisfies $f(\mathbf{r}) = f(\mathbf{r} + \mathbf{T})$ where \mathbf{T} is any translation $\mathbf{T}(n_1, n_2, \dots) = n_1 \mathbf{a}_1 + n_2 \mathbf{a}_2 + n_3 \mathbf{a}_3$ the $n \dots$

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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 $jb < x < 0$), 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

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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) $U = \frac{\partial}{\partial \beta} \ln Z = \frac{e^{-\beta E} E}{1 + e^{-\beta E}} = \frac{E}{1 + e^{\beta E}}$ $\frac{\partial F}{\partial T} = \ln(1 + e^{-\beta E}) + e^{-\beta E} (1 + e^{-\beta E})^{-2} E = \ln(1 + e^{-\beta E}) - \frac{E}{1 + e^{\beta E}}$ Solution 2. Magnetic susceptibility (a) Remember to calculate the multiplicity in the N-spin system (it's not enough to sum up $\exp(-\beta E)$ factors). $M = 2sm$ $U = MB = 2smB$ $N = N_+ + N_-$ $2s = N_+ - N_- = N_+ - (N - N_+) = 2N_+ - N$

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

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