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

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$a_1 + n^2 a_2 + n^3 a_3$ 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: $\psi I = A e^{iKx} + B e^{-iKx}$ 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

SOLID STATE PHYSICS HW#7

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$\exp(i \mathbf{G} \cdot \mathbf{r})$ where the \mathbf{G} 's are reciprocal lattice vectors $\mathbf{G}(m_1, m_2, \dots) = m_1 \mathbf{b}_1 + m_2 \mathbf{b}_2 + m_3 \mathbf{b}_3$ •
Check: A periodic function satisfies $f(\mathbf{r}) = f(\mathbf{r} + \mathbf{T})$ where \mathbf{T} is any

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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) $U = \frac{\partial}{\partial \beta} (-k_B T \ln Z) = -k_B T^2 \frac{\partial}{\partial T} (-k_B T \ln Z) = \frac{\epsilon e^{-\beta \epsilon}}{1 + e^{-\beta \epsilon}}$

$U = \frac{\epsilon e^{-\beta \epsilon}}{1 + e^{-\beta \epsilon}}$ (b) $U = \frac{\partial}{\partial \beta} (-k_B T \ln Z) = -k_B T^2 \frac{\partial}{\partial T} (-k_B T \ln Z) = \frac{\epsilon e^{-\beta \epsilon}}{1 + e^{-\beta \epsilon}}$ Solution 2.

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

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are $M!2 = (C_1 + C_2) (C_1^2 + C_2^2 + 2C_1C_2 \cos \alpha)$ ¹⁼²: Now, chose $C_1 = C$ and $C_2 = 10C$. The solutions are!

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According to (3.1) the viscosity is equal to $\mu \tau$, where μ is the shear modulus and τ is a characteristic time of motion of each water molecule; τ 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 $\omega = c_2 \sqrt{m/a^2 B}$

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