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$1 + m_2 b_2 + m_3 b_3$ • Check: A periodic function satisfies $f(r) = f(r + T)$ where T is any translation $T(n_1, n_2, \dots) = n_1 a_1 + n_2 a_2 + n_3 a_3$ 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 $b < x < 0$), 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

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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) $U = -\frac{1}{Z} \left(\frac{\partial F}{\partial \beta} \right) = \frac{e^{-\beta \epsilon}}{1 + e^{-\beta \epsilon}}$
 $= \frac{e^{-\beta \epsilon}}{1 + e^{-\beta \epsilon}}$ (c) $\left(\frac{\partial F}{\partial \epsilon} \right) = -\frac{e^{-\beta \epsilon}}{1 + e^{-\beta \epsilon}}$
 $= -\frac{e^{-\beta \epsilon}}{1 + e^{-\beta \epsilon}}$ Solution 2. Magnetic susceptibility (a) Remember to

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calculate the multiplicity in the N-spin system (it's not enough to sum up $\exp(-\epsilon_s)$ factors). $M = 2^N$ $U = \sum \epsilon_s = MB = 2sB$ $N = N_+ + N_-$ $2s = N_+ - N_- = N_+ - (N - N_+) = 2N_+ - N$

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scalar product gives $\cos \theta = -1/3$, whence $\theta = \cos^{-1}(-1/3) \approx 109.47^\circ$. The ...

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Problem 3.1s According to (3.1) the viscosity is equal to μst , where μs is the 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: $t = c_1 T = 2 c_1 / \omega$, where $\omega = c_2 / m a^2 B$

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Preface

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