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that any periodic function can be written as Fourier series $f(\mathbf{r}) = \sum_{\mathbf{G}} f_{\mathbf{G}} \exp(i \mathbf{G} \cdot \mathbf{r})$ 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 translation $\mathbf{T}(n_1, n_2, \dots) = n_1 \mathbf{a}_1 + n_2 \mathbf{a}_2 + n_3 \mathbf{a}_3$ the $n \dots$

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

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 $0 < x < b$), consider two solutions of the Schrödinger equation: $\psi =$

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$Ae^{ikx} + Be^{-ikx}$ for $U = 0$; $\psi'' = -k^2\psi$
 $= -k_0^2\psi$ 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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Question 1. Square Lattice, free ...

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manual • We have seen

(Kittel Ch 2) that any

periodic function can be

written as Fourier series

$f(r) = \sum_G f_G \exp(iG \cdot r)$

where the G 's are

reciprocal lattice vectors

$G(m_1, m_2, \dots) = m_1 b_1 + m_2$

$b_2 + m_3 b_3$ • Check: A

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periodic function satisfies
 $f(r) = f(r + T)$ where T is
any

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challenging the brain to
think better and faster can
be undergone by some ways.
Experiencing, listening to
the further experience,
adventuring, studying,
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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) $U = -\partial \ln Z / \partial \beta = \epsilon e^{-\beta \epsilon} / (1 + e^{-\beta \epsilon})$
 $= \epsilon / (1 + e^{\beta \epsilon})$
 $F = -k_B T \ln(1 + e^{-\beta \epsilon})$

Solution 2. Magnetic
susceptibility (a) Remember

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to calculate the multiplicity in the N-spin system (it's not enough to sum up $\exp(-\beta \epsilon_s)$ factors).
 $M = 2^N$
 $U = \sum_{s=1}^N \epsilon_s$
 $M = 2^N$
 $N = N$
 $+ N \epsilon_s = N + N = N + (N \epsilon_s)$

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modapktown.com The two
solutions are $M! = (C_1 + C_2) (C_1^2 + C_2^2 + 2C_1 C_2 \cos \alpha)$
 $1 = 2$: Now, chose $C_1 = C$
and $C_2 = 10C$. The
solutions are! $1(k=0) = 0$
and $! 2(k= \text{Kittel Chapter 7})$
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challenging the brain to
think better and faster can
be undergone by some ways.
Experiencing, listening to
the further experience,
adventuring, studying,
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think improved and faster
can be undergone by some
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experience, adventuring,
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Chapter 3 Problem 3.1s
According to (3.1) the
viscosity ? is equal to

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τ 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: $t = c_1 T = 2\pi c_1 / \omega$, where $\omega = c_2 \sqrt{m/a^2 B}$

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