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In the limit of small positive P this equation will have a solution only when $Ka \gg 1$. Expand the sine and cosine to obtain in lowest order $(\dots) \approx 1 - \frac{1}{2} \left(\frac{P}{Ka}\right)^2$. The energy is $\epsilon = \frac{2}{2} \frac{2}{2} \frac{2}{2} h K \frac{2m}{h} \frac{P}{m a} \dots$ (b) At $k = \pi/a$ the determinantal equation is $(P/Ka) \sin Ka + \cos Ka = -1$. In the same limit this equation has solutions $Ka = \pi + \delta$, where $\delta \ll 1$.

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KALMAN KNIZHNIK - KITTEL AND KROEMER SOLUTIONS K&K 2.1 Part a Suppose $g(U) = CU^3N^{-2}$, where C is a constant and N is the number of particles. Show that $U = \frac{3}{2} N^{-1/3} \dots$. We use the definition of temperature as $\frac{1}{T} = \left(\frac{\partial \ln g}{\partial U}\right)_N = \frac{1}{U} \dots$ (1) So, let's calculate $\dots = \ln(g) = 3N \ln(U) + \ln(C)$ (2)

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Therefore, $\epsilon' = \epsilon'' = 3N \frac{2U}{kT} = 1 - \frac{1}{3}$ (3) So finally, $U = \frac{2}{3} N kT$ (4) Part b Show that $\epsilon'' = \epsilon''_j$

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Kittel Ch 2 #2 . Supplementary problem . 2. (a) Cell volume a^3 (b) $\frac{1}{a^3} \frac{d}{da} a^3 = 3 \frac{a^2}{a^3} = \frac{3}{a}$ (c) SIX vectors in the reciprocal lattice are shown as solid lines. The broken lines are the perpendicular bisectors at the midpoints.

Kittel Ch 2 #2 - Delaware Physics

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In the same limit this equation has solutions $Ka = \pi + \delta$, where $\delta \ll 1$. We expand to obtain $(P/\pi)(-\delta) + \sqrt{1 - \delta^2} = -1$, which has the solution $\delta = 0$ and $\delta = 2P/\pi$.

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CHAPTER 2 1. The crystal plane with Miller indices hka is a plane defined by the points a_1/h , a_2/k , and a_3/A . (a) Two vectors that lie in the plane may be taken as $a_3/A - a_2/k$ and $a_1/h - a_3/A$. But each of these vectors gives zero as its scalar product with $G = hk_1^2 + a_2 + Aa_3$, so that G must be perpendicular to the plane hka .

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