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Solution 2. Paramagnetism. $U(s) = U_1(s_1) + U_2(s_2) = 2mB(s_1 + s_2) = 2mBs$ or $s = U/2mB$ i.e. potential energy $U(s) = 2smB$. For $j \sim N$, then $g(N;s) = g(N;0) \exp(2sN) = g(N;0) \exp(2U/2mB) = \ln(g(N;U)) = \ln(g(N;0)) + \frac{2U}{2mB} = \ln(g(N;0)) + \frac{U}{mB}$ What is the thermal equilibrium value of this N-spin system of fractional magnetization?

NOTES AND SOLUTIONS TO THERMAL PHYSICS BY CHARLES KITTLE ...

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 $U = \frac{3}{2} N \langle \epsilon \rangle$. We use the definition of temperature as $\frac{1}{T} = \left(\frac{\partial U}{\partial N} \right) = \frac{1}{N} \left(\frac{\partial U}{\partial N} \right)$ (1) So, let's calculate $\frac{\partial U}{\partial N} = \ln(g) = 3N \ln(U) + \ln(C)$ (2) Therefore, $\frac{1}{T} = \frac{\partial U}{\partial N} = 3N \ln(U) + \ln(C)$ (3) So nally, $U = \frac{3}{2} N \langle \epsilon \rangle$ (4) Part b Show that $\frac{\partial U}{\partial T} = \frac{3}{2} N$

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1. The vectors $\hat{x} + \hat{y} + \hat{z}$ and $-\hat{x} + \hat{y} + \hat{z}$ are in the directions of two body diagonals of a cube. If θ is the angle between them, their scalar product gives $\cos \theta = -1/3$, whence $\theta = \cos^{-1}(-1/3) = 90^\circ + 19^\circ 28' = 109^\circ 28'$. 2. The plane (100) is normal to the x axis.

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The energy is $= 2 2 2 2 h K 2m h P ma . / /$ (b) At $k = /a$ the determinantal equation is $(P/Ka) \sin Ka + \cos Ka = -1$. In the same limit this equation has solutions $Ka = +$, where 1 . We expand to obtain $() () 21 P 1 2 - + - + = - 1$, which has the solution $= 0$ and $= 2P/$.

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