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Solution 2. Paramagnetism. U(s) = U 1(s 1) + U 2(s 2) = 2mB(s 1 + s 2) = 2mBsor s= U 2mB i.e. potential energy U(s) = 2smB. For jsj?N, then g(N;s) ’g(N;0)exp 2s2=N = g(N;0)exp 2U 2(mB)2N ?(N;U) = lng(N;U) = ? 0 U2 2m2B2 1 N where ? 0 = lng(N;0) 1 ? = @? @U N = U m2B2 1 N What is the thermal equilibrium value of this N-spin system of fractional magnetization?

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1. The vectors x ˆ ˆ++y ˆz and ??x ˆ y ˆ+ ˆz are in the directions of two body diagonals of a cube. If ? is the angle between

them, their scalar product gives cos ? = –1/3, whence ?=cos?11/3=90°+19°28' =109°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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Kittel and Kroemer teach thermal physics through the concepts of statistical mechanics and lay a strong foundation in this way of viewing physics. From there they introduce quantities such as the partition function, the free energy, Gibbs energy, entropy and so on. They do not take the engineering approach to thermal physics, such as btu's etc.