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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.  
Charles Kittel Solid State Physics Solution Manual  
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  $\theta$  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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Solution 2. Paramagnetism.  $U(s) = U_1(s) + U_2(s) = 2mB(s_1 + s_2) = 2mB$  or  $s = U/2mB$  i.e. potential energy  $U(s) = 2smB$ . For  $j \gg N$ , then  $g(N; s) \approx g(N; 0) \exp(2s) = g(N; 0) \exp(2U/2(mB)2N) = \ln g(N; U) = \ln g(N; 0) + \ln 2$  where  $\ln 2 = \ln g(N; 0) + \ln 2$ . What is the thermal equilibrium value of this N-spin system of fractional magnetization?

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The energy is  $E = 2 \times 2 \times 2 \times h \times k \times 2m \times h \times P \times a \times \dots$  (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  $\delta \ll \pi$ . We expand to obtain  $(\delta/Ka)^2 = 1 - (P/Ka) \sin \pi + \cos \pi = 1 - 1 = 0$  and  $\delta = 2P/Ka$ .  
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