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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  $j_s \ll N$ , then  $g(N; s) \approx g(N; 0) \exp(2s^2 = N = g(N; 0) \exp(2U^2 / (mB)^2) N$   
 $\ln(N; U) = \ln g(N; U) = \ln g(N; 0) - \frac{U^2}{2m^2B^2} N$  where  $\ln g(N; 0) = \ln \frac{2^N}{N!} \approx N \ln 2 - N \ln N + N$   
 $\frac{\partial \ln(N; U)}{\partial U} = -\frac{2U}{m^2B^2} N$  What is the thermal equilibrium value of this N-spin system of fractional magnetization?

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Part a Suppose  $g(U) = CU^{3N-2}$ ,  
where  $C$  is a constant and  $N$  is the  
number of particles. Show that  
 $U = \frac{3}{2} N \epsilon$ . We use the definition  
of temperature as  $\frac{1}{T} = \left(\frac{\partial \ln g}{\partial U}\right)_N$   
(1) So, let's calculate  $\ln g = \ln(C) + (3N-2) \ln(U)$   
(2) Therefore,  
 $\frac{1}{T} = \frac{\partial \ln g}{\partial U} = \frac{3N-2}{U}$  (3) So  
nally,  $U = \frac{3}{2} N \epsilon$  (4) Part b Show  
that  $\frac{\partial^2 \ln g}{\partial U^2} = -\frac{3N-2}{U^2}$

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chapters 1 to 10 of "Introduction to Statistical Physics", by Silvio R. A. Salinas, first published by Springer, New York, in 2001. We also add a number of corrections and some new ...

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 $\psi = \frac{1}{\sqrt{2m}} \left[ \frac{d}{dr} \left( r^2 \frac{d\psi}{dr} \right) + 4\pi r^2 \frac{d}{dr} \left( r^2 \frac{d\psi}{dr} \right) - e^2 \frac{2m}{\hbar^2} \int_0^\infty -r/a \frac{d}{dr} \left( r^2 e^{-r/a} \frac{dr}{\hbar^2} \right) \int_0^\infty 0 \right]$   
 $\frac{d}{dr} \left( r^2 e^{-r/a} \right) = 2 r^2 \frac{a}{4} = \frac{2a^3}{8} = \frac{2}{2ma^2}$ ,  $\epsilon = \frac{2}{2ma^2} - \frac{e^2}{4\pi\epsilon_0 a}$ ,  $\frac{\partial \epsilon}{\partial a} = 0 \Rightarrow a = \frac{4\pi\epsilon_0}{2} \frac{e^2 m}{\hbar^2} = a_B$ ,  
 $\Delta r = r^2 = \sqrt{3} a_B$ ,  $\Delta p^2 = \frac{1}{3} p^2 = \frac{1}{3} \frac{2}{a^2}$ ,  $\Delta x^2 = \frac{1}{3} r^2 = \frac{1}{3} \frac{2}{3} a^2 = \frac{2}{9} a^2$ ,  $\Delta p^2 = \frac{1}{3} \frac{2}{a^2}$ , vs.  $\Delta p^2 = \frac{1}{3} \frac{2}{a^2}$ , vs.  $\Delta p^2 = \frac{1}{3} \frac{2}{a^2}$ , vs.  $\Delta p^2 = \frac{1}{3} \frac{2}{a^2}$ . Problem 2.6s  
Solving the system

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## *Solutions of Selected Problems and Answers*

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(Kittel Ch 2) that any periodic  
function can be written as Fourier  
series  $f(r) = \sum G f G \exp(i G \cdot r)$   
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 periodic function  
satisfies  $f(r) = f(r + T)$  where  $T$  is  
any

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