CHAPTER 2

2.1) ENTROPY AND TEMPERATURE

- (a) $\sigma = \log g = \log C + (3N/2)\log U$. $(\partial \sigma/\partial U)_N = 1/\tau = (3N/2)(1/U)$, hence $U = 3N\tau/2$.
- (b) $(\partial^2 \sigma / \partial U^2)N = (3N/2)(-1/U^2) < 0$.

2.2) PARAMAGNETISM

States with spin excess 2s have the energy $U = -2 \, \mathrm{sm} B$, hence $s = -U/2 \, \mathrm{m} B$. Insertion into (40) yields (41). From (41) obtain $(\partial \sigma/\partial U)_{N,B} = 1/\tau = -U/m^2 B^2 N$. Solve for $U:U = \langle U \rangle = -m^2 B^2 N/\tau = -MB$. Hence $M/Nm = mB/\tau$.

2.3) QUANTUM HARMONIC OSCILLATOR

(a) From (1.55):

 $\sigma = \log g = \log(N+n-1)! - \log n! - \log(N-1)!$ $\cong \log(N+n)! - \log n! - \log N!$

Replacing N-1 by N is equivalent to neglecting a term $-\log[(N+n)/N]$, which for large N is small compared to the factorial terms. With the Stirling approximation:

- $\sigma \cong (N+n) \log(N+n) n \log n N \log N$
 - $= (N+n) \log[(N+n)/N] n \log(n/N)$
 - = $N[(1+n/N) \log(1+n/N) (n/N) \log(n/N)]$.
- (b) Set n = U/ $M\omega$ and N $M\omega$ = U $_{0}$ (N): $\sigma(U,N) = N[(1+U/U_{0}) \log(1+U/U_{0}) (U/U_{0}) \log(U/U_{0})].$

Thermal Physics Kittel Solutions Manual

Salvador Mafé, Juan de la Rubia

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