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Solution: Expanding out the binomial in the denominator gives. Then, factoring out and canceling gives. An even function is defined as satisfying the following relationship. Here, it is clear that effecting

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Chapter 1  
the change of signs will leave the equation unchanged. Similarly. Again, it is clear that interchanging the signs leaves the equation the same.

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Solutions Manual to Accompany Quantum  
Chemistry-Donald Allan McQuarrie 1984  
Statistical Mechanics-Kerson Huang 1975

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A book about statistical mechanics for students. Problems and Solutions on Thermodynamics and Statistical Mechanics-Yung-kuo Lim 1990 Volume 5. Quantum Chemistry-Donald A Mcquarrie 2007-01-01 Mathematical Methods for Scientists and Engineers-Donald Allan McQuarrie 2003 Intended

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Manual ...

Statistical mechanics - Wikipedia Using  
the methods developed in class: Step 1:  
Multiply both sides by the partition  
function  $H = (E + pV) e^{E_j p V_j} V_j$ . Step 2:

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Chapter 1  
Get the temperature derivative at constant  
(N, P) (The conjugate variable to H in this  
case)  $\left( \frac{\partial H}{\partial T} \right)_{N,P} = \frac{1}{T^2} \left( \frac{\partial H}{\partial T} \right)_{N,P} = \frac{1}{T^2} \left( \frac{\partial H}{\partial T} \right)_{N,P}$

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name is synonymous with excellence in chemical education. From his classic text on Statistical Mechanics to his recent quantum-first tour de force on Physical Chemistry, McQuarrie's best selling textbooks are highly acclaimed by the chemistry community. McQuarrie received his PhD from the University of

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Oregon, and is Professor Emeritus from  
the Department of Chemistry at the  
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Solution: Apply, first, Stirling's

approximation to  $\ln n!$ , giving  $\ln n! \approx n \ln n - n$ . But, one of the constraints states that  $\sum_i n_i = N$  so this gives  $\ln N! \approx N \ln N - N$ . Then,



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necessarily. And the total differential is, likewise, where the other terms vanish because they are constants.

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McQuarrie's Statistical Mechanics

Chapter 1 Problem 1-49 Maximize with

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Solutions Chapter 4  
respect to each under the constraints that  
Solution: Apply, first, Stirling's  
approximation to  $N!$ , giving  $N! \approx (N/e)^N$ . But, one of the  
constraints states that  $N_1 + N_2 = N$  so this gives  $N_1 = N - N_2$ . Then,  
necessarily Selected Solutions to  
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chapter 7 is called Classical Statistical  
Mechanics. Thank you in advance.

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Chemical Statistical Mechanics Fall 2015

Textbook: Recommended: Statistical

Mechanics , by D.A. McQuarrie

(University Science) ; Statistical

Mechanics , by N. Davidson (Dover);

Introduction to Modern Statistical

Mechanics , by D .

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Statistical Mechanics - Washington State  
University

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Chapter 1 1.1. (a) We expand the quantity  
 $\ln(0)(E 1)$  as a Taylor series in the



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