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both sides by the partition function $H = (E+pV$

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$$\sum_j e^{-E_j/pV} = 1$$
 Step 2: Get the temperature derivative at constant (N, P) (The conjugate variable to H in this case)

$$\left(\frac{\partial}{\partial T} \right)_{N,P} \sum_j e^{-E_j/pV} = 0$$

$$\sum_j e^{-E_j/pV} \left(-\frac{E_j}{pV} \right) \left(\frac{\partial}{\partial T} \right)_{N,P} = 0$$

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Using the methods developed in class: Step 1: Multiply both sides by the partition function

$$\sum_j e^{-E_j/pV} = 1$$
 Step 2: Get the temperature derivative at constant (N, P) (The conjugate variable to H in this case)

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$$\sum_j e^{-E_j/pV} \left(-\frac{E_j}{pV} \right) \left(\frac{\partial}{\partial T} \right)_{N,P} = 0$$

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Statistical Mechanics

The entropy of mixing may, therefore, be

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obtained from eqn. (1.5.4), with $N_1 = 4N_A$ and $N_2 = N_A$. We get $(\Delta S) = k[4N_A \ln(5/4) + N_A \ln 5] = R[4 \ln(5/4) + \ln 5] = 2.502 R$, which is equivalent to about 0.5 R per mole of the mixture. 1.12. (a) The expression in question is given by eqn. (1.5.3a).

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In 1968 Don moved to Indiana University as a Professor of Chemistry, where at the time he was the youngest professor in the university. UC Davis recruited him in 1978, where he remained until his retirement in 1994. Don McQuarrie's research interests were in theoretical chemistry, specifically in statistical thermodynamics of electrolyte systems and transport through membranes,

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stochastic differential equations, and nonlinear dynamical systems.

Donald A. McQuarrie - Academic Senate

We give some schematic solutions of exercises from 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 exercises. Additional corrections and suggestions are warmly welcomed. Silvio Salinas

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Statistical Physics ...

Problems and solutions: Statistical Mechanics, R. Kubo Professor Scott Pratt has a PHY831 www site that is a good resource for PHY831 problems, past subject exams and his lecture notes. Professor Steven Teitel has a nice set of notes and problems with solutions. Materials from Fall 2011 Course Part 1: (LL, PB) Foundations: (10 lectures)

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Statistical mechanics in itself can be a bit difficult to understand, but McQuarrie is one

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of the best authors I have come across. I'd definitely recommend this book because it really goes in depth with explaining stat mech but in such a way that you'll be able to follow!

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