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Problem 1-49 Maximize. with respect to each under the constraints that. Solution: Apply, first, Stirling's approximation to , giving But, one of the constraints states that so this gives. Then, necessarily. And the total differential is, likewise

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Statistical Mechanics Donald Allan McQuarrie "Statistical Mechanics" is the extended version of McQuarrie's earlier text - "Statistical Thermodynamics" (USB 1984). G25.2651: Advanced Statistical Mechanics - New York University

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near thermal equilibrium, it is not necessary or even wise to try to describe it in terms of quantum  
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### **Chapter 7. Statistical Mechanics - University of Utah**

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There are hints provided to most of the solutions to these problems. My advice: If every problem in  
chapter one is attempted, or solved, then the continuation of the text is assured to be a positive  
experience ! (3) Apparently there are two camps, the statistical mechanics books for chemists and  
those for physicists.

### **Amazon.com: Statistical Mechanics (9781891389153): Donald ...**

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)

### **PHY831 Graduate Statistical Mechanics: Fall 2012**

Additional material and most of the homework problems will be taken from other sources -- for  
example, Statistical Mechanics by D.A. McQuarrie (Harper and Row, New York, 1976),  
Thermodynamics by H.B. Callen (Wiley, New York, 1985), and Statistical Mechanics by R.K. Pathria  
(Butterworth-Heinemann, Oxford, 1996).

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