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D. A. McQuarrie, Statistical Mechanics (University Science, 2000/1976) and D. Chandler, Solutions Manual for "Introduction to Modern Statistical Mechanics". Robert P. Baumann, Modern Thermodynamics with Statistical Mechanics, . Teunis C. Dorlas, Statistical Mechanics: Fundamentals and Model Solutions, IOP Press (1999).

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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.

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Problem Set 5 Solutions - McQuarrie Problems 3.20 MIT Dr. Anton Van Der Ven Problem 3-4 Fall 2003 We have to derive the thermodynamic properties of an ideal monatomic gas from the following:  $\epsilon = \frac{3}{2} kT$  and  $q = \frac{V}{\Lambda^3}$  is the partition function for the grand canonical ensemble, where  $T$ ,  $V$ , are fixed. The characteristic potential

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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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Additional Resources . Single page integral table; Academic Integrity: I encourage you to work with classmates on homework assignments. However, each student must turn in original work. No copying will be accepted (this includes copying from textbooks or prior semester homeworks).

### **Statistical Mechanics - Washington State University**

Statistical Mechanics I In addition to Atkins and the primer, you may (or may not!) find some of the following books useful: F. C. Andrews, Equilibrium Statistical Mechanics, 2nd edition (John Wiley and Sons, Inc 1975) Peter A. Rock, Chemical Thermodynamics, Principles and Applications (The Macmillan company, -Collier

### **Statistical Mechanics I - University of Oxford**

Statistical Mechanics is the extended version of McQuarrie's earlier text - Statistical Thermodynamics (USB 1984). This text (previously published by Longman Education) is an accessible introduction to the subject.

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