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PROBLEM SET 6: Statistical Mechanics of Simple Systems

This Problem Set can be attempted during Weeks 4 and 5 of Hilary Term, with the tutorial or class on this material held at the end of Week 5 or later. Calculation of thermodynamic quantities from the partition function 6.1 Consider an array of N localised spin-1/2 paramagnetic atoms.

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8.333: Statistical Mechanics I Problem Set # 5 Solutions Fall 2003 Two-dimensional electron gas 1. Electron gas in a magnetic field: (a) The Hamiltonian for non-interacting free electrons in a magnetic field has the form $H = \sum_i \left(\frac{p_i^2}{2m} + e \mathbf{A} \cdot \mathbf{v}_i + \frac{e^2}{2m} \mathbf{B} \cdot \mathbf{L}_i \right)$; or in expanded form $H = \sum_i \left(\frac{p_i^2}{2m} + e \mathbf{A} \cdot \mathbf{v}_i + \frac{e^2}{2m} \mathbf{A} \cdot \mathbf{v}_i \times \mathbf{r}_i + \frac{e^2}{2m} \mathbf{B} \cdot \mathbf{L}_i \right)$; Substituting $\mathbf{A} = \mathbf{B} \times \mathbf{r}$, results in $H = \sum_i \left(\frac{p_i^2}{2m} + e \mathbf{B} \cdot \mathbf{L}_i \right)$

8.333: Statistical Mechanics I Problem Set # 5 Solutions ... Practical - Problem sets 1-4 with solutions. problem sets 1-4 with solutions. University. Michigan State University. Course. Statistical Mechanics (PHY 831) Academic year. 2012/2013. Helpful? 0 0. Share. Comments. Please sign in or register to post comments. Related documents. HW 33765 S17 05 - Due February 27, 2017. Spring 2017.

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Assignments | Statistical Physics I | Physics | MIT ... Many of the problem sets have an associated suggested reading. Huang, Kerson. Statistical Mechanics. 2nd ed. New York, NY: Wiley, 1987. ISBN: 9780471815181.

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Statistical Mechanics I Problem Set # 3 Due: 10/18/13. Kinetic Theory. 1. Poisson Brackets: (a) Show that for observable $O(p(\mu), q(\mu))$, $dO/dt = \{O, H\}$, along the time trajectory of any micro state μ , where H is the Hamiltonian.

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(b) If the ensemble average $\langle \{O, H\} \rangle = 0$ for any observable $O(p, q)$ in phase space, show that the ensemble density satisfies $\langle \{H, \rho \rangle = 0$.

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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

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statistical mechanics of black holes. It is based on the paper by G. Gour, Phys Rev. D 61, 021501(R) I have also included this exercise as a new optional vacation work question (R.7) in the updated Revision Problem Set, along with an opportunity to be creative about elastic chains (R.6). Note by the way an intriguing connexion between gravity

A1: Statistical Physics - MT17

This volume, Statistical Mechanics: Problems with solutions contains detailed model solutions to the exercise problems formulated in the companion Lecture Notes volume. In many cases, the solutions include result discussions that enhance the lecture material. For reader's convenience, the problem assignments are reproduced in this volume.

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