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Statistical Mechanics

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Tuesday, February 13th The problems will be discussed in the exercise session of Friday, February 16th 1 (6 points) Let us continue the study of the oscillations of a vibrating string ...

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Statistical Mechanics I:

Problem Set 3 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 (b) If

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the ensemble average ($\{0, H$

...

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8.333: Statistical Mechanics

I Problem Set # 1 Solutions

Fall 2000 Surface Tension 1.

Capillary forces: (a) i: The work done by a water droplet on the outside world, needed to increase the radius from

R to $R + \Delta R$ is $W = (P - P_0)$

$4\pi R^2 \Delta R$; where P is the

pressure inside the drop and

P_0 is the atmospheric

pressure. In equilibrium,

this should be equal to the

increase in the surface

energy $\Delta A = S \Delta A$, where

S is the surface tension,

and $W_{\text{total}} = 0$; $\Rightarrow W_{\text{pressure}} =$

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Wsurface; resulting in (P
Po) 4?R2R ...

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I Problem Set # 1 Solutions*

...

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 $\frac{1}{2}$
paramagnetic atoms.

*Problem Sets 5{8:
Statistical Mechanics*

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Problem ...

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I Problem Set # 5 Solutions
Fall 2003 Two{dimensional
electron gas 1. Electron gas
in a magnetic eld: (a) The

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Solutions for
non-interacting free
electrons in a magnetic field
has the form $H = \sum_i \frac{p_i^2}{2m} + \sum_j \frac{e^2}{2m} \mathbf{A} \cdot \mathbf{p} + \sum_j \frac{e^2}{2m} \mathbf{A}^2$
or in expanded form $H = \frac{p^2}{2m} + e \mathbf{m} \mathbf{p} \cdot \mathbf{A} + e^2 \frac{2m}{2m} \mathbf{A}^2$
 $\mathbf{B} \cdot \mathbf{A}$: Substituting $\mathbf{A} = \mathbf{B} \times \mathbf{r}$, results in $H = \frac{p^2}{2m} + e \frac{2m}{2m}$

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.

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Solutions. Comments. Please sign in or register to post comments. Related documents. HW 33765 S17 05 - Due February 27, 2017. Spring 2017.

Practical - Problem sets 1-4 with solutions - PHY 831 ...

This section provides the problem sets for the course along with solutions.

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Solutions (PDF) 5: Problem

Set 2 (PDF) Problem Set 2

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...

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. (b) If the ensemble average ($\{O, H\}$)

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

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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

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Solutions Teitel has a nice set of notes and problems with solutions. Materials from Fall 2011 Course

*PHY831 Graduate Statistical
Mechanics: Fall 2012*

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Solutions The work done by a water droplet on the outside world, needed to increase the radius from R to $R + \Delta R$ is $W = (P - P_0) 4\pi R^2 \Delta R$; where P is the pressure inside the drop and P_0 is the atmospheric pressure. In equilibrium, this should be equal to the increase in the surface energy S

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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

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Preface to SM Problems with Solutions This volume of the EAP series contains model solutions of the problems formulated in volume 7, Statistical Mechanics: Lecture Notes. For reader's convenience, the problem assignments are reproduced

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Solutions in this volume as well,
although the accom-

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