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1 Phase
Transitions***

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Problem Set 1

Phase Transitions

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Problem Set 5 Due:
3/12/04 ...***

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**8.333: Statistical
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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

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*the drop and P_0 is
the atmospheric
pressure. In
equilibrium,*

***PH24155:Thermody
namics & Statistical
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Physics 847 -
Statistical Physics II
- Winter 2004
Current reading
assignment. ...
Kerson Huang,***

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**Statistical
mechanics, ISBN**

0-471-81518-7... The

***eighth problem set
will be discussed in
the first half of the
class on Tuesday
3/9.***

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**Problem Set 2 Due:
2/20/04 ...**

First Problem Set for

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**Physics 847
(Statistical Physics
II) Winter quarter**

**2004 ... Let us start
by reviewing some
of the key concepts
from the first
statistical
mechanics course.**

**a) What are the three
laws of
thermodynamics? b)
What is special
about the entropy in**

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*thermodynamic
equilibrium*

*compared to all
other ... Third
Problem Set for ...*

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Problem Set*

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Problem Set # 4*

Due: 4/9/14 Transfer

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Problem Set 1
**Matrices & Position
space**

renormalization.

This problem set is partly intended to introduce the transfer matrix method, which is used to solve a variety of one-dimensional models with near-neighbor interactions. As an example, consider a

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linear chain of N
Ising spins (? ...
Phase Transitions

**Statistical
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Problem Set # Due
Statistical
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Problem Set # 5
Due: 4/28/14 Duality:
Potts models &
Percolation. 1.
Energy by duality:
Consider the Ising**

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Problem Set 1
Phase Transitions
model ($\sigma_i = \pm 1$) on a
square lattice with
 $H = K \sum_{\langle ij \rangle} \sigma_i \sigma_j$.

(a) Starting from the
duality expression
for the free energy,
derive a similar
relation for

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- Fall 2003
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Problem Set # 7

Due: 4/2/04 Cubic

**Anisotropy Consider
the modified**

Landau–Ginzburg

Hamiltonian ? $K t n$

$H = \int dx (m^2)^2 + m^2$

$2 + u(m^2)^2 + v m^4$

$2 \sum_i, i=1$

First Problem Set for

Physics 847

(Statistical Physics

II)

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A two-semester course on statistical mechanics. Basic principles are examined in 8.333: the laws of thermodynamics and the concepts of temperature, work, heat, and entropy. Postulates of classical statistical mechanics, microcanonical,

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Problem Set 1
Phase Transitions

***canonical, and
grand canonical
distributions;
applications to
lattice vibrations,
ideal gas, photon
gas.***

***Assignments |
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Due: 2/13/04

Mean-Field Theory

Problem Set 1
Phase Transitions

To describe phase transitions in

different contexts, a

number of models

have been de

veloped. Despite

their superficial

differences, many of

these models have

the same mathe

matical structure.

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Problem Set 1
Phase Transitions

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Mechanics - Oberlin
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Problem Set 6 Due:
3/19/2004
?–Expansions 1.
Long-Range
Interactions
between spins can
be described by
adding a term**

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Problem Set # Due

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Problem Set # 2

Due: 3/4/14

Fluctuations. 1. The

Higgs mechanism:

Consider an n -

component vector

\vec{m}

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Problem Set # Due

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Problem Set # 6

**Due: 5/7/14 Beyond
Spin Waves. 1.**

**Nonlinear ? model
with long-range
interactions:**

**Consider unit n -
component spins,**

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Problem Set 1**

Problem Set 3:

Scaling ...

PH24155:

**Thermodynamics &
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**... The problem set 6
has been uploaded.**

**Note that it's not
compulsory and its
score is rather than**

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assignment scores.

***You can deliver your
solution until
Saturday (6 July
2014). Please note
that the due time is
changed. We will be
Sunday (Tir 8) 11am
in Rezakhani's ...***

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Mathematical ...***

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Problem Set 1

Problem Set # 3

Due: 3/21/14

Scaling,

Perturbation, &

Renormalization. 1.

The nonlinear ?

model describes n

component unit

spins. As we shall

demonstrate later, in

$d = 2$ dimensions,

the recursion

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*relations for
temperature T , and
magnetic field h , are
 $dT(n \neq 2) = T \cdot 2, d?$
 $2?$*

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2003**

**8.334: Statistical
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Problem Set # 5
Due: 3/12/04
Susceptibilities 1.**

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Problem Set 1

Phase Transitions

Transverse susceptibility: An n -component magnetization $\mathbf{m}(\mathbf{x})$ is coupled to an external \mathbf{h} through a term $\int d\mathbf{x} \mathbf{h} \cdot \mathbf{m}(\mathbf{x})$ in the Hamiltonian H . If H for $\mathbf{h} = 0$ is invariant under rotations of $\mathbf{m}(\mathbf{x})$; then the free energy density ($f \dots$

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**Problem Set 6 Due:
3/19/2004**

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reading assignment.
Please read sections
4.A, 4.B, 4.C, and the
introduction to
section 4.D of the
textbook. ...**

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Mechanics II
*(undergraduate
statistical physics II)
and 664*

*(undergraduate
theoretical
mechanics) or
equivalent: ... The
fifth problem set will
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- *Winter 2004*

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Problem Set 7 Due:
4/2/04 ...**

**8.334: Statistical
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Problem Set # 2
Due: 2/20/04**

Discontinuous Transitions When the order parameter m , goes to zero discontinuously, the phase transition is said to be 1st order. The most commonly encountered 1st order transitions in Landau theory are described in the following problems.

- 1.***

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Mechanics II: Transitions

Problem Set 1:

Phase transitions

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Problem Set 3 Oct

21, 2012 1. Electron

Spin: The

Hamiltonian for an

electron in a

magnetic field B_z is ...

Calculate the

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partition function of two such particles, if they are (i) bosons and (ii) spinless fermions, in terms of $Z_1(m)$. Also write down the two-particle partition function $Z_{\text{classical}}^2$

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Problem Set 1 Due:
2/13/04**

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*mechanics only to
uids, or worse, only
to the ideal gas.*

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Mechanics II:

Problem Set 2:

Fluctuations

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Problem Set # 1

Due: 2/21/14 Phase

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transitions. 1.

Problem Set 1
Phase Transitions

Critical behavior of a gas: The pressure P of a gas is related to its density $n = N/V$, and temperature T by the truncated expansion . $P = k. B. Tn ? b. n^2 + c n^3, 26$ where b and c are assumed to be positive, temperature independent

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constants.
Problem Set 1
Phase Transitions

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