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~~Discussion 9: Normal
Solution of Boltzmann
Equation (Part 2)~~

Discussion 8: Normal
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Equation (Part 1)

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~~Discussion 11: Mass
Flux, Pressure Tensor
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~~(Part 2) McQuarrie:~~

~~General Chemistry~~

~~Problems Chapter 1-1~~

~~Discussion 10: Mass~~

~~Flux, Pressure Tensor~~

~~and Heat Flux from~~

~~the Normal Solution~~

~~(Part 1) Discussion 4:~~

~~Boltzmann Equation~~

~~and Collision Integral~~

~~(Part 2) Discussion 7:~~

~~Derivation of~~

~~Conservation Laws~~

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~~from Boltzmann~~

~~Equation (Part 3)~~

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Boltzmann equation -

Final Lecture. 17.

Solutions to

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Volume Flow Rate,

Velocity and Cross

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Sectional Area

Detailed balance in
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statistical mechanics

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~~Canonical Ensemble~~

~~Course in Thermal~~

~~and Statistical Physics~~

~~Discussion 5:~~

~~Derivation of~~

~~Conservation Laws~~

~~from Boltzmann~~

~~Equation (Part 1)~~

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methods developed in

class: Step 1: Multiply

both sides by the

partition function $H=$

$(E+pV) e^{E_j p V_j} V_j$

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Step 2: Get the temperature derivative at constant (N, P) (The conjugate variable to H in this case) $H = H_1 + H_2$
 $(E + pV) e^{-E_j/pV} = 1$
 $(E_j + pV) e^{-E_j/pV} = T$
 $kT^2 = kT^2 N, P V, j V, j.$

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Using the methods

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developed in class:

Step 1: Multiply both sides by the partition function $H = \sum_j e^{-(E_j + pV_j)/kT}$. Step 2:

Get the temperature derivative at constant (N, P) (The conjugate variable to H in this case) $\frac{1}{H} \frac{dH}{dT} = -\frac{1}{kT^2}$

$$\sum_j (E_j + pV_j) e^{-(E_j + pV_j)/kT} = -\frac{1}{kT^2} \sum_j e^{-(E_j + pV_j)/kT}$$

$$\sum_j (E_j + pV_j) e^{-(E_j + pV_j)/kT} = -\frac{1}{kT^2} \sum_j e^{-(E_j + pV_j)/kT}$$

$$\sum_j (E_j + pV_j) e^{-(E_j + pV_j)/kT} = -\frac{1}{kT^2} \sum_j e^{-(E_j + pV_j)/kT}$$

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Problem Set 5

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Thermodynamics --

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Chemical Statistical
Mechanics Fall 2015

Textbook:

Recommended:

Statistical Mechanics ,
by D.A. McQuarrie
(University Science) ;

Statistical Mechanics ,
by N. Davidson

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(Dover); Introduction
to Modern Statistical
Mechanics, by D.

Solution Of
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The entropy of
mixing may, therefore,
be obtained from eqn.
(1.5.4), with $N_1 =$
 $4N_A$ and $N_2 = N_A$.

We get(S) =
 $k[4N_A \ln(5/4) + N_A \ln$
 $5] = R[4 \ln(5/4) + \ln 5]$
 $= 2.502 R$, which is

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equivalent to about
0.5 R per mole of the
mixture. 1.12. (a) The
expression in
question is given by
eqn. (1.5.3a).

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mechanics is a classic
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and although it was
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1976 is still widely
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Mcquarrie Solution

In 1968 Don moved to Indiana University as a Professor of

Chemistry, where at the time he was the youngest professor in the university. UC Davis recruited him in 1978, where he remained until his retirement in 1994. Don McQuarrie ' s research interests

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were in theoretical chemistry, specifically in statistical thermodynamics of electrolyte systems and transport through membranes, stochastic differential equations, and nonlinear dynamical systems.

Donald A. McQuarrie
- Academic Senate

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We give some schematic solutions of exercises from chapters 1 to 10 of "Introduction to Statistical Physics", by Silvio R. A. Salinas, –rst published by Springer, New York, in 2001. We also add a number of corrections and some new exercises.

Additional corrections

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and suggestions are warmly welcomed.

Silvio Salinas

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Mechanics, R. Kubo

Professor Scott Pratt

has a PHY831 [www](#)

site that is a good

resource for PHY831

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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)

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Statistical Mechanics:

Fall 2012

Statistical mechanics

in itself can be a bit

difficult to

understand, but

McQuarrie is one of

the best authors I

have come across. I'd

definitely recommend

this book because it

really goes in depth

with explaining stat

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able to follow!

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discusses the fundamental concepts involved in understanding the physical properties of matter in bulk on the basis of the dynamical behavior of its microscopic constituents. The book emphasizes the equilibrium states of physical systems. The text first details the

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statistical basis of thermodynamics, and then proceeds to discussing the elements of ensemble theory. The next two chapters cover the canonical and grand canonical ensemble. Chapter 5 deals with the formulation of quantum statistics, while Chapter 6 talks about the theory of

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simple gases.

Chapters 7 and 8
examine the ideal
Bose and Fermi

systems. In the next
three chapters, the
book covers the
statistical mechanics
of interacting
systems, which
includes the method
of cluster expansions,
pseudopotentials, and
quantized fields.

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Chapter 12 discusses the theory of phase transitions, while Chapter 13 discusses fluctuations. The book will be of great use to researchers and practitioners from wide array of disciplines, such as physics, chemistry, and engineering.

Classic text combines

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thermodynamics,
statistical mechanics,
and kinetic theory in
one unified

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include equilibrium
statistics of special
systems, kinetic
theory, transport
coefficients, and
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electrochemistry.

Features 10-12

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Lectures on

elementary statistical mechanics, taught at the University of Illinois and at the University of Pennsylvania.

The book is divided into two parts. The first part looks at the modeling of statistical systems before moving on to an

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analysis of these systems. This second edition contains new material on:

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identification of stochastic models from observations;
and statistical tests and classification methods.

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This book was first published in 1991. It considers the concepts and theories relating to mostly aqueous systems of activity coefficients.

This 2006 textbook discusses the fundamentals and applications of statistical thermodynamics for

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beginning graduate students in the physical and engineering sciences.

Building on the prototypical Maxwell–Boltzmann method and maintaining a step-by-step development of the subject, this book assumes the reader has no previous exposure to statistics,

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quantum mechanics
or spectroscopy. The
book begins with the
essentials of

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thermodynamics,
pauses to recover
needed knowledge
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mechanics and
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then moves on to
applications involving
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state and radiation. A full introduction to kinetic theory is provided, including its applications to transport phenomena and chemical kinetics. A highlight of the textbook is its discussion of modern applications, such as laser-based diagnostics. The book concludes with a

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thorough

presentation of the ensemble method, featuring its use for real gases. Numerous examples and prompted homework problems enrich the text.

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