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Statistical Mechanics,
CHEM 6481, Fall .
MWF 10:05-10:55am,
MoSE 1224. Course
website: T-Square.*

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Prerequisites: Advanced quantum mechanics (can be taken concurrently), advanced thermodynamics, multivariate calculus. McQuarrie's "Quantum Chemistry" and McQuarrie and Simon's "Molecular Thermodynamics" are considered background material.

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*Statistical Mechanics,
CHEM 6481, Fall*

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 were in

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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*

Gary Patterson, A Brief
History of the

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Rotational Isomeric
State Paradigm up to
1969, Modern
Applications of Flory's
"Statistical Mechanics
of Chain Molecules", 10
.1021/bk-2020-1356.ch0
01, (1-13), (2020).

*Statistical mechanics of
chain molecules - Flory
- 1969 ...*

Statistical mechanics,
one of the pillars of

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modern physics,
describes how
macroscopic
observations (such as
temperature and
pressure) are related to
microscopic parameters
that fluctuate around an
average. It connects
thermodynamic
quantities (such as heat
capacity) to microscopic
behavior, whereas, in
classical

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thermodynamics, the
only available option
would be to measure
and tabulate such ...

*Statistical mechanics -
Wikipedia*

Statistical Mechanics of
Nonequilibrium
Processes: Relaxation
and Hydrodynamic
Processes. John Wiley
& Sons. ISBN
3-527-40084-2.

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Quantum statistical
mechanics. Bogoliubov,
N. N. (1967–1970).

Lectures on Quantum
Statistics. Problems of
Statistical Mechanics of
Quantum Systems. New
York: Gordon and
Breach.

*List of textbooks in
thermodynamics and
statistical mechanics*

Foundations of

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Equilibrium Statistical
Mechanics. Ensembles,
Boltzmann factors,
Quantum systems.
Computational methods,
Monte Carlo and
detailed balance. Free
energies and
thermodynamics.

*PHY831 Graduate
Statistical Mechanics:
Fall 2012*

Using the methods
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developed in class: Step

1: Multiply both sides
by the partition function

$$H = \sum_j (E_j + pV_j) e^{-E_j/pV_j} / \sum_j e^{-E_j/pV_j}$$

Step 2: Get the

temperature derivative

at constant (N, P) (The

conjugate variable to H

in this case) $\partial H / \partial T$

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

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

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

Problem Set 5 Solutions

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-McQuarrie Problems

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Article citations.

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D.A. (1976) Statistical

Mechanics. Harper &

Row, New York. has

been cited by the

following article:

TITLE: Hydrogen

bonds of interfacial

water in human breast

cancer tissue compared

to lipid and DNA

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interfaces AUTHORS:

Halina Abramczyk,
Beata Brozek-Pluska,
Jakub Surmacki, Joanna
Jablonska-Gajewicz,
Radzislaw Kordek

*McQuarrie, D.A. (1976)
Statistical Mechanics.
Harper & Row ...*

McQuarrie's Statistical
Mechanics is a classic
textbook in the field
and, although it was first

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published in 1976, is still widely used in courses and consulted by researchers. A strong part of the appeal of the book are the numerous problems that accompany each chapter. However, no solution manual is available.

*Mcquarrie Solutions
Manual - healthnew
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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 mech but in such a way that you'll be able to follow!

Amazon.com: Customer
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*reviews: Statistical
Mechanics*

by. Donald A.
McQuarrie. 3.95 .

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ratings · 3 reviews.

Statistical Mechanics is
the extended version of
McQuarrie's earlier text
- Statistical

Thermodynamics (USB
1984). This text
(previously published
by Longman Education)

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is an accessible introduction to the subject. It contains a large number of problems at the end of each chapter to help students understand the material and to introduce them to selected extensions.

*Statistical Mechanics by
Donald A. McQuarrie*

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