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*Thermodynamics
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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

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in 1994. Don
McQuarrie's
research

interests were
in theoretical
chemistry,
specifically in
statistical
thermodynamics
of electrolyte
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stochastic
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"Statistical
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Chain
Molecules", 10.1
021/bk-2020-1356
.ch001, (1-13),
(2020).

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of modern
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describes how
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mechanics are related to microscopic parameters that fluctuate around an average. It connects thermodynamic quantities (such as heat capacity) to microscopic behavior, whereas, in

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classical
thermodynamics,
the only
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mechanics -
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Nonequilibrium
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Relaxation and
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Processes. John
Wiley & Sons.

ISBN

3-527-40084-2.

Quantum
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mechanics.

Bogoliubov, N.
N. (1967-1970).

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New York: Gordon
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Using the
methods
developed in
class: Step 1:
Multiply both
sides by the
partition
function $H=$

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$(E_j + pV_j) e^{-E_j / pV_j}$
 V_j . Step 2: Get
 the temperature
 derivative at
 constant (N, P)
 $($ The conjugate
 variable to H in
 this case) $\partial H / \partial T$
 $+ H = \sum_j (E_j + pV_j) e^{-E_j / pV_j}$
 $\partial H / \partial T = 1$
 $(E_j + pV_j) e^{-E_j / pV_j} \partial T / \partial T$
 $kT^2 \partial H / \partial T = N, P, V_j$
 V_j .

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Problems 3.20

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chapter.
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mechanics in
itself can be a
bit difficult to
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