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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

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Thermodynamics" are considered background material.

Statistical Mechanics, CHEM 6481, Fall

In 1968 Don moved to Indiana University as a Professor of

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McQuarrie, 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
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Gary Patterson, A Brief
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Mechanics of Chain
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10.1021/bk-2020-1356.ch001,
(1-13), (2020).

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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.

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in class: Step 1: Multiply both sides by the partition function $H = \sum_j (E_j + pV) e^{-\beta(E_j + pV)}$. Step 2: Get the temperature derivative at constant (N, P) (The conjugate variable to H in this case) $\partial H / \partial \beta = -H^2$

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$$\frac{\partial}{\partial T} \left(\frac{E_j + pV}{kT} \right) = 1$$

$(E_j + pV) e^{-(E_j + pV)/kT} = \frac{\partial}{\partial T} \left(\frac{E_j + pV}{kT} \right) e^{-(E_j + pV)/kT}$

*Problem Set 5 Solutions -
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Brozek-Pluska, Jakub

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McQuarrie, D.A. (1976)

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McQuarrie's Statistical Mechanics is a classic textbook in the field and, although it was first published in 1976, is still widely used in courses and consulted by researchers. A

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strong part of the appeal of the book are the numerous problems that accompany each chapter. However, no solution manual is available.

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Statistical Mechanics is the extended version of McQuarrie's earlier text - Statistical Thermodynamics (USB 1984). This text

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(previously published by Longman Education) 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

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