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thermodynamics, multivariate calculus. McQuarrie's "Quantum Chemistry" and McQuarrie and Simon's "Molecular Thermodynamics" are considered background material.

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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

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

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Gary Patterson, A Brief History of  
the Rotational Isomeric State  
Paradigm up to 1969, Modern  
Applications of Flory's "Statistical  
Mechanics of Chain Molecules",

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10.1021/bk-2020-1356.ch001,  
(1-13), (2020).

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

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Nonequilibrium Processes:  
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Processes. John Wiley & Sons.  
ISBN 3-527-40084-2. 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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by the partition function  $H = \sum_j (E_j + pV) e^{-E_j/pV}$ . Step 2: Get the temperature derivative at constant  $(N, P)$  (The conjugate variable to  $H$  in this case)  $\left[ \frac{1}{H} \frac{\partial H}{\partial T} \right]_{N,P} = 1 + \frac{1}{H} \frac{\partial}{\partial T} \sum_j (E_j + pV) e^{-E_j/pV}$ .

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Problem Set 5 Solutions -  
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Mechanics. Harper & Row, New  
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researchers. A 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 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



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the extended version of McQuarrie's earlier text - Statistical Thermodynamics (USB 1984). This text (previously published by Longman Education) is an accessible introduction to the subject. It contains a large number of problems at the end of

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each chapter to help students understand the material and to introduce them to selected extensions.

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