

# **8 044 Lecture Notes**

## **Chapter 5**

### **Thermodynamcs Part 2**

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### Chapter 1.quantum mechanics

(8.04) Even when the state of the system is completely speci ed, some measurement outcomes can't be predicted with certainty. Hence they are RVs.

### 2.ignorance (8.044)

This happens when we have insu cient information to fully specify the state of the system, e.g. because there are just too many bits for us to keep track of. Suppose we

### 8.044 Lecture Notes Chapter 2: Probability

for 8 What is 8.044 about? This

class is about thephysics of matter and energy as we actually

experience it {at everyday time-scales and length-scales (seconds, meters, grams...). This means that

it is about the physics of lots of

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particles. (On pset 1 you'll think about how many.) 'Lots' here means numbers like 10<sup>25</sup>. As you can imagine, solving the equations of motion

8.044 Lecture Notes Chapter 1: Introduction to ... 8.044 Lecture Notes Chapter 8: Chemical Potential Lecturer: McGreevy Reading: Baierlein, Chapter 7. So far, the number of particles  $N$  has always been fixed. We suppose now that it can vary, and we want to learn how to determine its value in equilibrium. The concept we'll need to introduce to answer this question is chemical potential. This is

8.044 Lecture Notes Chapter 8: Chemical Potential 8.044 Lecture Notes Chapter 4: Statistical Mechanics, via the counting of microstates of an isolated system (Microcanonical Ensemble) 8.044 Lecture Notes

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Chapter 4: Statistical Mechanics, via ... 8.044 Lecture Notes Chapter 6: Statistical Mechanics at Fixed Temperature (Canonical Ensemble) Lecturer: McGreevy ... many examples { the rest of 8.044. 6-7. Probability for a fixed microstate vs probability for a fixed energy For a system in equilibrium at fixed temperature  $T$ , we have: 8.044 Lecture Notes Chapter 6: Statistical Mechanics at ... 8.044 Lecture Notes Chapter 3: Thermodynamics, first pass Lecturer: McGreevy Reading: CJ Adkins, Equilibrium Thermodynamics, Chapters 1, 2, 3.1-3.7. 8.044 Lecture Notes Chapter 3: Thermodynamics, first pass 8.044 Lecture Notes Chapter 9: Quantum Ideal Gases Lecturer: McGreevy ... tangent but out of bounds for 8.044. We'll still assume non-

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interacting particles. 2.If  
'classicalness' fails. Even with no  
interactions, at low enough  
temperatures, or high enough  
densities, quantum effects modify  
Z. 8.044 Lecture Notes Chapter 9:  
Quantum Ideal Gases 8 044 Lecture  
Notes Chapter 8.044 is the jumping-  
o point for many branches of  
physics, only some of which we'll  
get to touch on briefly. Our job is to  
develop the general theoretical  
machinery. 1due to the condensed  
matter physicist PW Anderson 1-2  
8.044 Lecture Notes Chapter 1:  
Introduction to ... (Note the serif on  
the capital P.) 8 044 Lecture Notes  
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## Categorical Syllogisms Categorical

syllogisms are a special class of deductive arguments containing two categorical propositions as premises and a third as the conclusion. Categorical propositions are propositions which express a simple relation of being or becoming between a subject and a predicate. They do not contain

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Probability for 8.044: Statistical Physics I Dr. Yost - Exam 1 Lecture Notes - Chapter 22. 13 Pages: 5 year: 2018/2019. 5 pages.

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inequality? A. Laziness B.

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