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## **Thermodynamics and Statistical Mechanics: An Integrated ...**

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This branch of statistical mechanics, which treats and extends classical thermodynamics, is known as statistical thermodynamics or equilibrium statistical mechanics.

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Mechanics by M.  
Scott Shell**

investigation is to combine statistical mechanics with

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thermodynamics. In other words, to investigate heat and work via statistical arguments.

This discipline is called statistical thermodynamics, the study of which will form the central subject matter of this course. This chapter constitutes an

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alongside statistical mechanics with this fresh approach to the subjects. Molecular and macroscopic principles are explained in an integrated, side-by-side manner to give students a deep, intuitive understanding of thermodynamics and equip them to tackle future research topics that focus on the nanoscale.

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**and Statistical  
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These are the lecture notes for the course on Thermodynamics and Statistical Mechanics which I taught during the fall term of 2014, and plan to teach again for the spring term 2016. This is a course meant for upper level undergraduate students in physics, so that is the level at which most topics are discussed,

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starts with an overview  
of important quantum  
behaviors, before  
introducing the ideas

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of classical  
thermodynamics and  
statistical mechanics.

## **Statistical mechanics - Wikipedia**

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complete set of lecture  
notes for an upper-  
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**Mechanics and  
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This textbook brings together the fundamentals of the macroscopic and microscopic aspects of thermal physics by presenting thermodynamics and statistical mechanics as complementary theories based on small numbers of postulates.

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An intermediate level  
course Richard  
Fitzpatrick Associate  
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It starts with  
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thermodynamics. Most statistical physics books focus only on statistical mechanics. I think it is important to see the linkage with thermodynamics for a physics student. Also, the book discusses quantum statistical mechanics formally using density matrix.

## **An Introduction to Thermodynamics and Statistical Mechanics**

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Review -

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Statistical Mechanics  
"This textbook  
presents an accessible  
(but still rigorous)  
treatment of the  
material at a beginning-  
graduate level,  
including many worked  
examples.

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...

It introduces the ideas

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of classical thermodynamics and explores them both in general and as they are applied to specific processes and interactions. The remainder of the book deals with statistical mechanics - the study of small systems interacting with huge reservoirs.

## **Thermodynamics and Statistical Mechanics an**

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Statistical mechanics are based on ideas from information theory, and the simpler ideal systems are covered in close connection with the thermodynamic treatment.

Mathematical steps are displayed in detail, and abundant problems include worked solutions.

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Statistical Mechanics is  
a probabilistic

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approach to equilibrium properties of large numbers of degrees of freedom. In this two-semester course, basic principles are examined. Topics include:

Thermodynamics, probability theory, kinetic theory, classical statistical mechanics, interacting systems, quantum statistical mechanics, and identical particles.

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Statistical Mechanics  
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by Claude Garrod  
Cambridge Series  
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Chapter 5 Chapter 6  
Chapter 7 Chapter 8  
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The account of thermodynamics and statistical mechanics in Thermodynamics and Statistical Mechanics is based on entropy and its maximization. Building from first principles, it gives a transparent explanation of the physical behaviour of equilibrium thermodynamic systems, and it presents a comprehensive, self-



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