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### PHY 5524: Statistical Mechanics: Homework and Solutions

From his classic text on Statistical Mechanics to his recent quantum-first tour de force on Physical Chemistry, McQuarrie's best selling textbooks are highly acclaimed by the chemistry community. McQuarrie received his PhD from the University of Oregon, and is Professor Emeritus from the Department of Chemistry at the University of California, Davis. Statistical Mechanics - Donald A. McQuarrie - Google Books

Chapter 7. Statistical Mechanics. When one is faced with a system containing many molecules at or near thermal equilibrium, it is not necessary or even wise to try to describe it in terms of quantum wave functions or even classical trajectories following the positions and momenta of all of the constituent particles.

PHY 5524: Statistical Mechanics: Homework and Solutions. Homework and solutions are posted on this site. They are in the form of postscript and PDF files. Homework n.1, due January, 12th 2011. hw1.ps , hw1.pdf hw1\_solutions.ps , hw1\_solutions.pdf . Homework n.2, due January, 19th 2011.

#### **Statistical Mechanics**

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Additional Resources . Single page integral table; Academic Integrity: I encourage you to work with classmates on homework assignments. However, each student must turn in original work. No copying will be accepted (this includes copying from textbooks or prior semester homeworks).

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Statistical Mechanics is 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.

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