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``Statistical Physics of Fields," by Mehran Kardar (2007). This is a more advanced text, developed from the lectures of a leading researcher in the field. An extremely clear description of such topics as fluctuation phenomena, renormalization and scaling theory, stochastic dynamics, etc. ``A Modern Course in Statistical Physics," by L. E. Reichl. Includes both thermodynamics and statistical mechanics. Used as a text in this course a couple of years ago.

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Physics 846 (Winter, 2010) - College of Arts and Sciences  
Going beyond traditional textbook topics, 'A Modern Course in Statistical Physics' incorporates contemporary research in a basic course on statistical mechanics. From the universal nature of matter to the latest results in the spectral properties of decay processes, this book emphasizes the theoretical foundations derived from thermodynamics and probability theory underlying all concepts in statistical physics.

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A Modern Course in Statistical Physics. Edition No. 3  
"Solution Manual for a Modern Course in Statistical Physics", 2nd edition (J. Wiley and Sons, New York, 1998) "The Transition to Chaos in Conservative Systems: Quantum Manifestations" (Springer-Verlag, Berlin, 1992) "Statistical Physics and Chaos in Fusion Plasmas" with W. Horton (J. Wiley and Sons, New York, 1984)

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Prof. Linda E. Reichl  
Physics 846 - Statistical Physics I - Fall 2003 Current reading assignment. Please read sections 4.A, 4.B, 4.C, and the introduction to section 4.D of the textbook. When you are done, fill out the questionnaire. The deadline for this assignment is Thursday 11/13 at 3:59am, i.e., you would be well served to finish it by Monday evening.

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