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from a statistical treatment of the governing equations. In fact, our approach has to be statistical in nature, because we lack most of the information required to specify the internal state of the system. The best we can do is to provide a few overall constraints, such as the average volume and the average energy.

Thermodynamics & Statistical Mechanics

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ME346A Introduction to Statistical Mechanics { Wei Cai

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Statistical Physics - TAPIR at Caltech

Statistical ideas are then applied to systems of particles in equilibrium to enhance an understanding of the basic notions of statistical mechanics, from which derive the purely macroscopic general statements of thermodynamics.

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pyOrderParametersComplexity.pdf David Chandler, Introduction to Modern Statistical Mechanics, Oxford, 1987; pb [0195042778]. ... Fundamentals of Statistical Mechanics: Manuscripts and Notes of Felix Bloch, World Scientific, 2001 pb [978-9810244194] ... Thermodynamics and an Introduction to Thermostatistics, Wiley, 1985 ...

Thermodynamics and an Introduction to Thermostatistics

Fundamentals of Statistical Mechanics by BB Laud is a nice introductory book. It bridges the gap between highly mathematical works and the usual less rigorous formulations of the subject. P.S : A chapter on basic concepts of probability has been included and it may prove useful for the beginners.

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