

Statistical mechanics

February 16, 2016

1 Introduction and the first law

The subjects of statistical mechanics and thermodynamics are large everyday objects, containing billions of individual constituents. Examples include say 1 liter of a certain gas or liquid, or electrons in a metallic wire, or lattice vibrations of a crystal, or photons coming from an incandescent light bulb. For such objects, you cannot possibly follow the motion of individual particles, nor would you be interested to do so, even if you could. So instead you presume that the particles are moving somewhat at random, and use the laws of probability to figure out the average properties of the assembly of particles.

The description of the properties of microscopic bodies based on the statistical properties of the constituent particles is known as statistical physics. It is interesting that statistical physics represents a relatively late approach to the subject, the one which was first practiced in earnest in the late 19th century. The development of this subject is associated with Maxwell, Boltzmann, and Gibbs. A great deal was discovered about the thermal properties of microscopic bodies in the early 19th century, when even the existence of atoms was not universally accepted. The development of this so called thermodynamics is associated with many names, including Carnot (Carnot cycle), Joule (Joule heating, unit of energy), and Clausius (entropy).

Due to its dual nature, the subject is notoriously difficult to teach. In teaching my graduate Stat Mech class I am borrowing material from more than 10 books. In this class, I will rely primarily on Schroeder's text. The standard old text is Reif, which is great, but it is definitely too long for 1 semester. I recommend you to familiarize yourself with this text. More books are listed on my webpage.

1.1 Temperature

Let us start by slowly introducing the temperature, which is the quantity that is equal between two bodies in a thermal equilibrium. What is the thermal equilibrium? It is the

Statistical Mechanics An Introduction

IM Harris



Statistical Mechanics An Introduction:

Statistical Mechanics An Introduction Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Statistical Mechanics An Introduction**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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