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Statistical Physics- The Fundamentals of Statistical Mechanics

Statistical mechanics is one of the pillars of modern physics. It is necessary for the fundamental study of any physical system that has many degrees of freedom. The approach is based on statistical methods, probability theory and the microscopic physical laws. It can be used to explain the thermodynamic behaviour of large systems. This branch of statistical mechanics, which treats and extends classical thermodynamics, is known as statistical thermodynamics or equilibrium statistical mechanics.

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LECTURE NOTES ON STATISTICAL MECHANICS

1.3 Why study thermodynamics? Thermodynamics is essentially the study of the internal motions of many body systems. Virtually all substances which we encounter in everyday life are many body systems of some sort or other (e.g., solids, liquids, gases, and light). Not surprisingly, therefore, thermodynamics is a discipline with an exceptionally wide

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