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the statistical properties of the atomic or molecular motion. The method adopted in thermodynamics is essentially dictated by the enormous complexity of thermodynamic systems. We generally start off with some statistical information about the motions of the constituent atoms or molecules, such as their average kinetic energy, but possess

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measure and tabulate such quantities for various materials. Statistical mechanics is necessary for the fundamental study of any physical system that has many degrees of freedom. The approach

## **Statistical mechanics - Wikipedia**

The concept of entropy is described by two principal approaches, the macroscopic perspective of classical thermodynamics, and the microscopic description central to statistical mechanics. The classical approach defines entropy in terms of macroscopically measurable physical properties, such as amount, volume, pressure, and temperature.

## **Entropy - Wikipedia**

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The concept entropy was first developed by German physicist Rudolf Clausius in the mid-nineteenth century as a thermodynamic property that predicts that certain spontaneous processes are irreversible or impossible. In statistical mechanics,

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entropy is formulated as a statistical property using probability theory. The statistical entropy perspective was introduced in 1870 by Austrian physicist Ludwig Boltzmann, who established a new field of physics that provided the descriptive linkage between t

## **Entropy (statistical thermodynamics) - Wikipedia**

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The author also makes the link between classical thermodynamics and statistical mechanics easy to understand - that is the common thread throughout the entire book. Based on my experiences with the other books on this topic I would strongly recommend this book. 12 people found this helpful. Helpful.

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