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[Molecular Driving Forces Statistical Thermodynamics](#)

Entropy is a scientific concept, as well as a measurable physical property that is most commonly associated with a state of disorder,

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randomness, or uncertainty. The term and the concept are used in diverse fields, from classical thermodynamics, where it was first recognized, to the microscopic description of nature in statistical physics, and to the principles of information theory.

[Entropy - Wikipedia](#)

Diffusion is the net movement of anything (for example, atoms, ions, molecules, energy) from a region of higher concentration to a region of lower concentration. Diffusion is driven by a gradient in concentration. The concept of diffusion is widely used in many fields, including physics (particle diffusion), chemistry, biology, sociology, economics, and finance (diffusion of people, ideas, and ...

[Diffusion - Wikipedia](#)

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[LAMMPS Publications - LAMMPS Molecular Dynamics Simulator](#)

Chapter 1 Introduction Some Important Notes Microscopic thermodynamics or statistical thermodynamics Macroscopic thermodynamics or classical thermodynamics A quasi-static process is also called a reversible process Intensive and Extensive Properties Intensive property: Whose value is independent of the size or extent i.e. mass of the system. e ...

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Work, heat, first law of thermodynamics, thermochemistry. Second and third law of thermodynamics: entropy and its statistical basis, Gibbs function. Chemical equilibrium of reactions in gas and solution phase. Macromolecular structure and interactions in solution. Driving forces for molecular self-assembly.

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Metabolism is a feature of all cellular life, from the very simplistic prokaryotic cells (Archae and Bacterial cells) to the more complex

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eukaryotic cells (Fungi, Animal and Plant cells) (Fig. 1.3). Prokaryotic cells and eukaryotic cells are defined by major differences in size and structural features. Prokaryotic cells are simplistic cells that are approximately 1,000 times smaller than their ...

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