

Lab 2020-21 Computer Science Thermodynamics and the Second Law of Thermodynamics



Introduction

The first law of thermodynamics states that energy cannot be created or destroyed, only converted from one form to another. This is a fundamental principle of physics that applies to all systems. In this lab, we will explore the second law of thermodynamics, which states that the total entropy of a closed system always increases over time. This law has profound implications for the behavior of systems and the flow of energy.

The second law of thermodynamics can be expressed in several ways, but the most common is that the total entropy of a closed system always increases over time. This law is a consequence of the statistical nature of thermodynamics and the fact that there are many more ways for a system to be in a state of higher entropy than in a state of lower entropy.

Objectives

The objectives of this lab are to understand the second law of thermodynamics and its implications for the behavior of systems and the flow of energy. We will also explore the concept of entropy and how it relates to the second law.

1. Understand the second law of thermodynamics and its implications for the behavior of systems and the flow of energy.
2. Explore the concept of entropy and how it relates to the second law.
3. Apply the second law of thermodynamics to a real-world system and calculate the change in entropy.

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