

Chapter 13

Temperature, Heat Transfer, and the First Law of Thermodynamics



Thermodynamics deals with

1. Temperature.
2. The transfer and transformation of energy.
3. The relationship between macroscopic properties and microscopic dynamics.

What is Temperature?

A property, or “state variable” of a system.

Other state variables are volume and pressure.

But this is not really a very good or complete definition.

We will ultimately discuss the characteristics of a substance that actually determine its temperature.