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# Solution Manual For Thermodynamics An Engineering Approach Chapter (1-18) 10th Edition

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The properties of a substance is naturally dependent on

→ the behavior of the particles

The Macroscopic approach to thermodynamics does not require knowledge

→ of the behavior of individual molecules in a substance

The Macroscopic approach to thermodynamics is called

→ Classical Thermodynamics

The Microscopic approach to thermodynamics, a more elaborate approach, is based on the

→ average behavior of large groups of individual molecules

The Microscopic approach to thermodynamics is rather involved and known as

→ Statistical Thermodynamics

The Conservation of energy principle

→ Energy can change form from one to another, but it cannot be created or destroyed.

The change of energy content is expressed as

→  $\Delta E = E(\text{in}) - E(\text{out})$

The First Law of Thermodynamics is also known as

→ The Conservation of energy principle

The First Law of Thermodynamics asserts that

→ Energy is a thermodynamic property

The second law of thermodynamics asserts that

→ Energy has quality and quantity and the processes occur in the direction of decreasing quality of energy

Quality of energy is the

→ Measurement of energy's ability to do work

# Chapter 1 Thermodynamics An Engineering Approach

**Arturo Cuomo**



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