
Solution Manual For Thermodynamics An Engineering Approach Chapter (1-18)

10th Edition

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

Thermodynamics An Engineering Approach 6th Edition

Chapter 1

Frank A Di Bella



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