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Introduction. A description of any thermodynamic system employs the four laws of thermodynamics that form an axiomatic basis. The first law specifies that energy can be exchanged between physical

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systems as heat and work. The second law defines the existence of a quantity called entropy, that describes the direction, thermodynamically, that a system can evolve and quantifies the state of order ...

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frameworks. The textbook contains three parts, each building upon the previous. The first edition was published in 1960 and a second followed in 1985.

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A thermal system is a family of isolated systems of one independent variable—energy. Each member in this family is a distinct isolated system, has a fixed value of energy, and flips among the quantum states in its

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own sample space. We describe a family of isolated systems using several additional phrases.

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[VN Chapter 1] Subsections. 1. 1

What it's All About; 1. 2

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The Concept of a "State" 1. 2. 4

The Concept of "Equilibrium" 1.

2. 5 The Concept of a "Process"

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Problem 2.8\* One mole of a monatomic ideal gas at standard temperature and pressure (STP) undergoes the following three processes: 1. at constant Pressure the Temperature is

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Thermodynamics is a science  
and, more importantly, an  
engineering tool used to describe

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processes that involve changes in temperature, transformation of energy, and the relationships between heat and work. It can be regarded as a generalization of an enormous body of empirical evidence 1. 1. It is extremely general: there are no hypotheses

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made concerning the structure and type of matter that we deal with.

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