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***Fundamentals of
Thermodynamics
Cycles A process
(or a series of
connected
processes) with
identical end states***
**1 CHAPTER Basic
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Thermodynamics**
1-1 Power plants
The human body Air-

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**conditioning
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systems 1-2 Energy,
not mass, crosses
closed-system
boundaries 1-3 1-4
Mass and Energy
Cross Control
Volume Boundaries
Surr 1 system Surr 3
Surr 2 mass heat
work Isolated**

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system boundary

1-5 System's

Internal Energy =

Sum of Microscopic

Energies 1-7 1-6

Process B Process

A 1 ...

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Concepts,

Dimensions, and

Units ...

• Classical

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thermodynamics: A macroscopic approach to the study of thermodynamics that does not require a knowledge of the behavior of individual particles.

• It provides a direct and easy way to the solution of engineering problems and it is

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thermodynamics

Concepts of System

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**Boundaries and
their types Types of
systems Concept of
Intensive and
Extensive Properties
Concepts of State,
Process ...**

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**The first law of
thermodynamics
asserts that _____**

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is a thermodynamic property. The

Second Law of Thermodynamics. It asserts that energy has quality as well as quantity, and actual processes occur in the direction of decreasing quality of energy.

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***1—16C A can of soft
drink at room
temperature is put
into the refrigerator
so that it will cool.***

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Would you model the can of soft drink as a closed system or as an open system? Explain.

1-15C A can of soft drink should be analyzed as a closed system since no mass is crossing the boundaries of the system.

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**14C: An office
worker claims that a
cup of cold coffee
on his table warm...**

Solved: What is the

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**difference between
the classical and ...**

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Chapter 1-5. Chapter

1: Basic Concepts of

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INTRODUCTION The

study of

thermodynamics is

concerned with the

ways energy is

stored within a body

and how energy

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transformations, which involve heat and work, may take place. One of the most fundamental laws of nature is the conservation of energy principle. It simply states that during an

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Thermodynamics, generally speaking, is the science of energy. The transformation of energy from one form to another, and in many cases thermodynamics is about transforming heat into work, such as in an automobile

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*engine or at a power
plant. The
application of
Thermodynamics is
almost everywhere
in our daily life.*

Basic

**Thermodynamics-
Lecture**

**1_Introduction &
Basic Concepts
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Answer: The basic barometer can be used to measure the

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Step 1 of 2 Draw the free body diagram for all the forces acting on the bicycle. Comment(0)

Step 2 of 2 While coming downhill the potential energy (P.E) of the bicyclist will be converted into Kinetic Energy (K.E), so the speed of the bicyclist

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**increases. Total
energy at any
instant is given as.**

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THERMODYNAMICS

AND ENERGY •

Thermodynamics:

The science of

energy. •

Conservation of

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energy principle:
The first law of

thermodynamics:

*During an
interaction, energy
can change from
one form to another
but the total amount
of energy remains
constant.*

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Thermodynamics of

Materials Science,

Scope and Special

Features of the

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thermodynamics is

a branch of physics

originating in the

nineteenth century

as scientists were

first discovering

how to build and

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operate steam engines [1], which primarily led to the industrial revolution.

A steam engine is a heat engine that performs mechanical work using steam as its working fluid.

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