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for an introductory
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Thermodynamics is
the study of heat
energy and other
types of energy,

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such as work, and the various ways energy is transferred within chemical systems.

“Thermo-” refers to heat, while

“dynamics” refers to motion. The First Law of Thermodynamics

The first law of thermodynamics

deals with the total

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amount of energy in
the universe.

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Thermodynamics
deals with the
amount of heat
transfer as a
system undergoes a

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process from one equilibrium state to another. Heat transfer, on the other hand, deals with the rate of heat transfer as well as the temperature distribution within

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Introduction to
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Thermodynamics is
the study of the
energy, principally

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heat energy, that accompanies chemical or physical changes.

Some chemical reactions release heat energy; they are called

exothermic reactions, and they have a negative enthalpy change.

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~~Thermodynamics~~

~~CliffsNotes~~

The study of changes in energy associated with physical and chemical reaction is called as

thermodynamics. In general, it is the study of effect of work, heat and energy on a system. When

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changes in energy
are studied from
chemistry point of
view, it is called as
chemical
thermodynamics.

~~Introduction of
Thermodynamics—
Web Formulas~~

Thermodynamics is
a science and, more
importantly, an
engineering tool

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used to describe
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

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general: there are no hypotheses made concerning the structure and type of matter that we deal with.

~~1.1 What it's All About~~

Concept of a thermodynamic system (VW, S & B: 2.1) A. A quantity of matter

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of fixed identity, boundaries may be fixed or movable, can transfer heat and work across boundary but not mass. Force \times distance (work)
System boundary
Heat (Q) Electrical energy (work)
System boundary.

~~THERMODYNAMIC~~

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Figure 1. A steam
engine uses heat
transfer to do work.

Tourists regularly
ride this narrow-
gauge steam engine
train near the San
Juan Skyway in
Durango, Colorado,
part of the National

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Program. (credit:
Dennis Adams)

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~~Introduction to
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Thermodynamics,
science of the
relationship
between heat, work,
temperature, and
energy. In broad
terms,

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thermodynamics To
deals with the
transfer of energy
from one place to
another and from
one form to
another. The key
concept is that heat
is a form of energy
corresponding to a
definite amount of
mechanical work.

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Let us break the
word

thermodynamics

into two words,

thermo and

dynamics.

‘ Thermo ’ stands
for heat while

‘ dynamics ’ is used
in connection with a
mechanical motion

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which involves
'work'. Therefore,
Thermodynamics is
the branch of
physics that deals
with the
relationship
between heat and
other forms of
energy.

~~Thermodynamics :~~
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~~Work ...~~

Authors Michael
Moran, Howard
Shapiro, Bruce

Munson, and David
DeWitt have

surveyed the fields
of thermodynamics,
fluid mechanics, and
heat transfer, and
identified the
critical subject
areas needed to
analyze thermal

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help you hone...To

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combines coverage

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Thermodynamics is the study of the behaviour of heat and thermal energy. Energy is the ability to bring about change or to do work. Historically, thermodynamics originated as a

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result of man's
endeavour to
convert heat into
work.

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Introduction. A
description of any
thermodynamic
system employs the
four laws of
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that form an axiomatic basis. The first law specifies that energy can be exchanged between physical systems as heat and work. The second law defines the existence of a quantity called entropy, that describes the direction,

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thermodynamically,
that a system can
evolve and
quantifies the state
of order...

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