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reactions, and they have a positive enthalpy change.

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called as thermodyn

thermodynamics. In

general, it is the

study of effect of

work, heat and

energy on a system.

When changes in

energy are studied

from chemistry point

of view, it is called as

chemical

thermodynamics.

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concepts, examples  
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work. In other words, thermodynamics looks at how we can put energy into a system (whether it is a machine or a molecule) and make it do work.

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Problem 1.1\* The plot  
of  $V = V(P, T)$  for a  
gas is shown in Fig.  
1.1.

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1. 1 What it's All

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About Thermodyn

Thermodynamics is a science and, more importantly, an

engineering tool

used to describe

processes that

involve changes in

temperature,

transformation of

energy, and the

relationships

between heat and

work. It can be

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regarded as a

generalization of an

enormous body of

empirical evidence

1.1.

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About

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description of any

thermodynamic

system employs the

four laws of

thermodynamics that



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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,

thermodynamically,

that a system can

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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 which involves

‘ work ’ . Therefore, Thermodynamics is

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The branch of physics that deals with the relationship between heat and other forms of energy.

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often called the  
science of energy.

This designation

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steals accomplishments

from other sciences,

and diminishes

accomplishments of

thermodynamics.

Rather,

thermodynamics is

the science of entropy.

Entropy plays the

leading role in

thermodynamics.

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began with the study  
of heat and work  
effects and relations  
between heat and  
work. Some early  
thermodynamics  
problems were for  
very practical  
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example, in a steam engine heat is supplied to water to create steam. The steam is then used to turn an engine which does work.

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