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Thermodynamics is  
the study of the

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Energy, principally  
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. Others  
absorb heat energy  
and are called

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Thermodynamics.  
The study of changes  
in energy associated  
with physical and  
chemical reaction is

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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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Define the first law of thermodynamics.

Describe how conservation of energy relates to the first law of thermodynamics.

Identify instances of the first law of thermodynamics working in everyday situations, including biological metabolism.

Calculate changes in

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The internal energy of  
a system, after  
accounting for heat  
transfer and work  
done.

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Thermodynamics is  
the study of the  
relationship between  
heat (or energy) and  
work. In other words,

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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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## Introduction To

### 1.1 What it's All About

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 regarded as a

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#### **1.1 What it's All About**

Introduction. A description of any thermodynamic system employs the four laws of thermodynamics that form an axiomatic

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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 evolve and quantifies



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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 the branch of physics that deals with the

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Thermodynamics is  
often called the  
science of energy.  
This designation  
steals  
accomplishments



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Rather, thermodynamics is the science of entropy. Entropy plays the leading role in thermodynamics.

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View abstract. This classic textbook is the definitive introduction to the thermodynamic behavior of materials systems. Written as a basic text for advanced

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Undergraduates and first year graduate students in metallurgy, metallurgical engineering, ceramics, or materials science, it presents the underlying thermodynamic principles of materials and their plethora of.

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Thermodynamics began with the study of heat and work effects and relations between heat and work. Some early thermodynamics problems were for very practical problems. For example, in a steam engine heat is

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supplied to water to  
create steam. The  
steam is then used to  
turn an engine which  
does work.

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