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text for an introductory  
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Thermodynamics is a  
branch of physics that  
deals with heat, work,  
and temperature, and  
their relation to  
energy, radiation, and  
physical properties of  
matter. The behavior of

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The type  
these quantities is  
governed by the four  
laws of  
thermodynamics which  
convey a quantitative  
description using  
measurable  
macroscopic physical  
quantities , but may be  
explained in terms of  
microscopic  
constituents by  
statistical mechanics .

## **Thermodynamics - Wikipedia**

Thermodynamics,  
*Page 8/25*



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science of the relationship between heat, work, temperature, and energy. In broad terms, thermodynamics 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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When scientists originally studied thermodynamics, they were really studying heat and thermal energy. Heat can do anything: move from one area to another, get atoms excited, and even increase energy. Did we say energy? That's what heat is.

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## Introduction To

### Thermodynamics

govern how heat transfer for doing work takes place and place insurmountable limits onto its efficiency. This chapter will explore these laws as well as many applications and concepts associated with them. These topics are part of thermodynamics—the study of heat transfer and its relationship to doing 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 which involves 'work'.

Therefore,  
Thermodynamics is the branch of physics that deals with the relationship between heat and other forms

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Concept of a  
thermodynamic system  
(VW, S & B: 2.1) A  
quantity of matter of  
fixed identity,  
boundaries may be  
fixed or movable, can  
transfer heat and work  
across boundary but  
not mass. Force x  
distance (work) System  
boundary Heat (Q)  
Electrical energy  
(work) System

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boundary.

**THERMODYNAMICS:  
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And that's pretty much what thermodynamics is, it's about, it's the study of heat and temperature, and how it relates to energy and work, and how different forms of energy can be transferred from one form to another. And that's actually the

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heart of the first law of thermodynamics which we touched on on the introduction to energy video.

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with the clear and numerous illustrations, student-friendly writing style, and manageable math, this is an ideal text for an introductory thermal science course for non-mechanical engineering majors.

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The roles of heat transfer and internal energy change vary from process to process and affect how work is done by the

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system in that process.  
We will see that the  
first law of  
thermodynamics  
explains that a change  
in the internal energy  
of a system comes  
from changes in heat  
or work.

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