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system employs

the four laws of

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that form an

axiomatic basis.

The first law

specifies that

energy can be



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between physical  
systems as heat  
and work. The  
second law  
defines the  
existence of a  
quantity called  
entropy, that  
describes the  
direction, therm  
odynamically,  
that a system  
can evolve and

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quantifies the  
state of order  
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that explains

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in both  
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A thermal system is a family of isolated systems of one independent variable—energy. Each member in this family is a distinct isolated system, has a fixed value of energy,

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and flips among  
the quantum  
states in its  
own sample  
space. We  
describe a  
family of  
isolated systems  
using several  
additional  
phrases.

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to thermodynamic  
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thermodynamics  
the science that  
deals with  
energy and its  
transformation  
have wide  
applicability in  
several branches

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and science.

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is a science  
and, more  
importantly, an  
engineering tool  
used to describe  
processes that  
involve changes  
in temperature,

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transformation  
of energy, and  
the  
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of an enormous  
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evidence 1. 1.  
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hypotheses made  
concerning the  
structure and

type of matter

that we deal

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