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of a body increase when mechanical work is done on it? More importantly, can we

extract heat from a body in order to do

useful work? This subject area is called

“thermodynamics,” from the Greek roots

thermos, meaning “heat,” and dynamis,

meaning “power.” 1.6 The need for a

statistical approach

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applications. And only one chapter on  
statistical mechanics does not make it  
clear.

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Physics plays an important role in all the  
natural sciences, however, and all such



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fields have branches in which physical laws and measurements receive special emphasis, bearing such names as astrophysics, geophysics, biophysics, and even psychophysics. Physics can, at base, be defined as the science of matter, motion, and energy.

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Thermodynamics is the field of physics that deals with the relationship between heat and other properties (such as pressure, density, temperature, etc.) in a substance. Specifically, thermodynamics





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