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An Engineering
Approach

Chapter 2 Thermodynamics An Engineering Approach

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Thermodynamics

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Describes processes that involve changes in temperature,

transformation of energy, relationships between heat and

work. It is a science, and more importantly an engineering tool,

that is necessary for describing the performance of

propulsion systems, power generation

systems, refrigerators, fluid flow, combustion,

fluid flow, combustion,

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Edition ...

Fundamentals of

Engineering

Thermodynamics

Chapter 2 Terms.

Chapter 2 - Work, Heat,

Cycles. STUDY. PLAY.

Sign Conventions.

Unlike in

Thermochemistry,

everything that

happens on the outside

is considered positive.

Work > 0 - WORK

DONE BY THE SYSTEM

ON THE

SURROUNDINGS

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the basic principles of
thermodynamics while
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real-world engineering

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examples so students
get a feel for how
thermodynamics is
applied in engineering
practice.

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Thermodynamics

Chapter 2.2. total

energy (E) total energy

(E) formula. two types

of macroscopic energy.

kinetic energy. the

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A Graphical Approach

total energy of a system on a unit mass basis is denoted e .
 $e = E/m$ (kJ/kg) kinetic and potential.

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textbook. It is designed

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course sequence for

Mechanical

Engineering majors.

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Michael A. Boles 7th
Edition, McGraw-Hill
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07-352932-5, 2008

Sheet 1:Chapter 1

1-5C What is the
difference between kg-
mass and kg force?

Solution Solution

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Michael A. Boles

McGraw-Hill, 2011 2. 2

Objectives • Identify the unique vocabulary associated with thermodynamics through the precise definition of basic concepts to form a sound foundation for the development of the principles of thermodynamics.

Thermodynamics

Chapter 1

(Introduction)

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-07-352932-5, 2008.

Sheet 2:Chapter 2.

2-4C absence of

magnetic, electrical,

and surface tensioThe

sum of all forms of the

energy a system

possessn effects, the

total energy of a

system es is called

total energy.

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**Sheet 2 solution -
Thermodynamics -
Monash - StuDocu**

2 Objectives • Examine the performance of engineering devices in light of the second law of thermodynamics. • Define exergy, which is the maximum useful work that could be obtained from the system at a given state in a specified environment. • Define reversible work, which

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Thermodynamics:
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is the maximum useful
work that can be
obtained as a system
...

CHAPTER 8 EXERGY - KSU

Chapter 2 The first Law
of Thermodynamics
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top Engineering and

Tech solution expert on

08/01/17, 09:10AM.

Consider an electric refrigerator located in a room ...

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Sheet 3:Chapter 3

Chapter 3 The

Statistical Theory of

Thermodynamics 3

Statistical theory of

thermodynamics In this

chapter, we will focus

on two ...

[Book] Chapter 3

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Solutions

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THERMODYNAMICS

Faculty of Mechanical

Engineering, UiTM 2 □

The science of energy,

that concerned with

the ways in which

energy is stored within

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a body. □ Energy transformations – mostly involve heat and work movements. □ The Fundamental law is the conservation of energy principle: energy cannot be created or destroyed, but can only be transformed from one form to another.

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