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~~Thermodynamics 37 ||~~

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~~Thermodynamics |~~

~~Macroscopic vs~~

~~Microscopic Approach~~

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~~Ideal Gas Equation |~~

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Equilibrium | Module
7 | English Mnemonic
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The Laws of
Thermodynamics,
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Thermodynamics-
Lecture

1_ Introduction \u0026
Basic Concepts

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Calorimetry Thermal
Equilibrium

06.2 Unsymmetric
bending and stress
concentrations beams

~~Books~~

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~~*Thermodynamics 2:*~~

~~*Ch 32.2 PVT Partial*~~

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The PVT Surface

Measurement of

Measurement of U and H :

Calorimetry

Calorimetry

Thermodynamics |

Module 5 | Entropy |

Part 3 (Lecture 17)

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The text begins by reviewing, in a simple and precise manner, the physical principles of three pillars of

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Refrigeration and Air Conditioning, namely thermodynamics, heat transfer, and fluid mechanics. Following an overview of the history of refrigeration, subsequent chapters provide exhaustive coverage of the principles, applications and design of several

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types of refrigeration systems and their associated

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historical background of air conditioning in Chapter 15, discusses the subject of psychrometrics being at the heart of understanding the design and implementation of air conditioning processes and systems, which are subsequently dealt with in Chapters 16 to

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23. It also explains the design practices followed for cooling and heating load calculations. Each chapter contains several worked-out examples that clarify the material discussed and illustrate the use of basic principles in engineering applications. Each

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chapter also ends
with a set of few
review questions to
serve as revision of
the material learned.

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continues to provide a
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introduction to the
principles of chemical

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engineering
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the derivation of
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relationships between
the various
thermodynamic
properties. The initial
chapter provides an
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important units and
dimensions involved.
The ensuing chapters,
in a logical
presentation,

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thermodynamics
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thoroughly cover the first and second laws of thermodynamics, the heat effects, the thermodynamic properties and their relations, refrigeration and liquefaction processes, and the equilibria between phases and in chemical reactions. The book is suitably illustrated with a large

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ability and confidence in the application of the underlying concepts. Primarily intended for the undergraduate students of chemical engineering and other related engineering disciplines such as polymer, petroleum and pharmaceutical engineering, the book will also be useful for

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