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Lecture Notes Below is a sample of lecture notes for a first course in CH E thermo that covers first/second law, thermodynamics of pure fluids and applications to power generation/refrigeration. The notes are from the Fall 2015 offering of CH E 220, Penn State's first course in chemical engineering thermodynamics.

Lecture Notes | Fundamentals of CH E Thermodynamics

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LECTURE NOTES . HTML Version of Full Lecture Notes: Thermodynamics Notes (html)** Index of Chapters: 1. Introduction to Thermodynamics. 2. The First Law of Thermodynamics. 3. The First Law Applied to Engineering Cycles. 4. Background to the Second Law of Thermodynamics. 5. The Second Law of Thermodynamics. 6. Applications of the Second Law. 7.

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Chemical Engineering Thermodynamics

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Chemical Engineering Thermodynamics II

Chapter 5- 1. Chapter 5 The Second Law of Thermodynamics. The second law of thermodynamics states that processes occur in a certain direction, not in just any direction. Physical processes in nature can proceed toward equilibrium spontaneously: Water flows down a waterfall. Gases expand from a high pressure to a low pressure.

Chapter 5 The Second Law of Thermodynamics

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Chemical Engineering and Thermodynamics Lectures Chapter 2 ...

Chapter 4 The First Law of Thermodynamics. The first law of thermodynamics is an expression of the conservation of energy principle. Energy can cross the boundaries of a closed system in the form of heat or work. Energy transfer across a system boundary due solely to the temperature difference between a system and its surroundings is called heat.

Chapter 4 The First Law of Thermodynamics

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ME6301 Engineering Thermodynamics

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