

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Mechanical Engineering - NOC:Concepts of Thermodynamics

Subject Co-ordinator - Prof. Aditya Bandopadhyay, Prof. Suman Chakraborty

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introductory Concepts
Lecture 2 - Properties of Pure Substances
Lecture 3 - Properties of Pure Substances (Continued...)
Lecture 4 - Introduction to Property Tables
Lecture 5 - Properties of Pure Substances
Lecture 6 - Properties of Pure Substances
Lecture 7 - Use of Computer as Means of Learning Thermodynamics
Lecture 8 - Properties of Pure Substances (Continued...)
Lecture 9 - Properties of Pure Substances Spring - Piston Problem
Lecture 10 - Heat and Work
Lecture 11 - Heat and Work
Lecture 12 - Heat and Work
Lecture 13 - Heat and Work
Lecture 14 - First Law of Thermodynamics for a Control Mass System
Lecture 15 - Enthalpy and Specific Heats
Lecture 16 - First Law for a Control Mass System
Lecture 17 - First Law for a Control Mass System
Lecture 18 - First Law for a Control Mass System
Lecture 19 - Control Volume Conservation Reynolds Transport Theorem
Lecture 20 - Control Volume Mass and Energy Balance
Lecture 21 - Supplementary Lecture
Lecture 22 - First Law for Steady State Steady Flow (SSSF) Process
Lecture 23 - First Law for SSSF Process
Lecture 24 - First Law for SSSF Process
Lecture 25 - First Law for SSSF Process
Lecture 26 - First Law for SSSF Process
Lecture 27 - Supplementary Lecture
Lecture 28 - First Law of Thermodynamics for Unsteady Processes in a Control Volume
Lecture 29 - First Law for Unsteady Problems - Examples

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- Lecture 30 - First Law for Unsteady Problems - Examples (Continued...)
- Lecture 31 - First Law for Unsteady Problems - Examples (Continued...)
- Lecture 32 - Supplementary Lecture
- Lecture 33 - Introduction to Second Law of Thermodynamics
- Lecture 34 - Statements of the Second Law of Thermodynamics
- Lecture 35 - Perpetual Motion Machines; Reversible and Irreversible Processes
- Lecture 36 - Factors for Irreversibility and Introduction to Reversible Cycles
- Lecture 37 - Carnot Theorem and Absolute Temperature Scale
- Lecture 38 - Second Law
- Lecture 39 - Clausius Inequality and Introduction to Entropy
- Lecture 40 - Thermodynamic Property Relationships; Entropy change for Solids, Liquids and Ideal gases
- Lecture 41 - Entropy balance for Reversible and Irreversible Processes
- Lecture 42 - What is Entropy ?
- Lecture 43 - Entropy Change in closed system
- Lecture 44 - Entropy Change in closed system
- Lecture 45 - Supplementary Lecture
- Lecture 46 - Supplementary Lecture
- Lecture 47 - Entropy Transport for a flow process
- Lecture 48 - Entropy Transport for flow process
- Lecture 49 - Entropy Transport for flow process
- Lecture 50 - Entropy Transport for flow process
- Lecture 51 - Entropy Transport for flow process
- Lecture 52 - Supplementary Lecture
- Lecture 53 - Exergy (Availability)
- Lecture 54 - Exergy (Availability) (Continued...)
- Lecture 55 - Exergy Analysis
- Lecture 56 - Exergy Analysis
- Lecture 57 - Thermodynamic Relationships
- Lecture 58 - Thermodynamic Relationships (Continued...)
- Lecture 59 - Otto Cycle
- Lecture 60 - Diesel Cycle
- Lecture 61 - Example Problems
- Lecture 62 - Brayton Cycle
- Lecture 63 - Carnot Cycle and Rankine Cycle
- Lecture 64 - Carnot Cycle and Rankine Cycle (Continued...)
- Lecture 65 - Vapour Compression Refrigeration Cycle
- Lecture 66 - Review of Learning Concepts
- Lecture 67 - Supplementary Lecture
- Lecture 68 - Supplementary Lecture

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