

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

NPTEL Video Course - Mechanical Engineering - NOC:Basics of Mechanical Engineering - 3

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Co-ordinating Institute - IIT Kanpur

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

Lecture 1 - Introduction to Thermodynamics
Lecture 2 - Thermodynamic System
Lecture 3 - Thermodynamics Energies
Lecture 4 - Thermodynamics Processes - Part 1
Lecture 5 - Thermodynamics Processes - Part 2
Lecture 6 - Basic Laws of Thermodynamics - Part 1
Lecture 7 - Basic Laws of Thermodynamics - Part 2
Lecture 8 - Basic Laws of Thermodynamics - Part 3
Lecture 9 - Basic Laws of Thermodynamics - Part 4
Lecture 10 - Basic Laws of Thermodynamics - Part 5
Lecture 11 - Tutorial-1 (Introduction to Thermodynamics)
Lecture 12 - Tutorial-2 (Heat Engine and Pump, Entropy, Exergy)
Lecture 13 - Gas Cycles in Thermodynamics - Part 1
Lecture 14 - Gas Cycles in Thermodynamics - Part 2
Lecture 15 - Vapour Power Cycles
Lecture 16 - Pure Substances, Phase and Phase Change
Lecture 17 - Properties of Pure Substances
Lecture 18 - Property Tables
Lecture 19 - Psychrometry of Air
Lecture 20 - Tutorial-3 (Power Cycles - Part 1)
Lecture 21 - Tutorial-4 (Power Cycles - Part 2)
Lecture 22 - Tutorial-5 (Psychrometrics)
Lecture 23 - Heat Transfer
Lecture 24 - Heat Exchangers and Mass Transfer
Lecture 25 - Basics of Power Plants - Part 1
Lecture 26 - Basics of Power Plants - Part 2
Lecture 27 - Basics of IC Engines
Lecture 28 - Basics of Electric and Hybrid Vehicles
Lecture 29 - Tutorial-6 (Heat Transfer - Part 1)

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- Lecture 30 - Tutorial-7 (Heat Transfer - Part 2)
- Lecture 31 - Tutorial-8 (Mass Transfer and Applications)
- Lecture 32 - Virtual Lab. Demonstration (Thermodynamics)
- Lecture 33 - Introduction to Fluid Mechanics
- Lecture 34 - Properties of Fluids
- Lecture 35 - Classification of Flow - Part 1
- Lecture 36 - Classification of Flow - Part 2
- Lecture 37 - Types of Line Pattern in Fluid Mechanics
- Lecture 38 - Basic Theory of Fluid Mechanics - Part 1
- Lecture 39 - Basic Theory of Fluid Mechanics - Part 2
- Lecture 40 - Basics of Fluid Aerodynamics
- Lecture 41 - Tutorial 9 (Introduction to Fluid Mechanics)
- Lecture 42 - Tutorial 10 (Concepts of Fluid Mechanics)
- Lecture 43 - Tutorial 11 (Laws of Fluid Mechanics)
- Lecture 44 - Basics of Turbines and Pumps
- Lecture 45 - Basics of Nozzles
- Lecture 46 - Basics of Compressors
- Lecture 47 - Virtual Lab. Demonstration (Fluid Mechanics - Part 1)
- Lecture 48 - Virtual Lab. Demonstration (Fluid Mechanics - Part 2)
- Lecture 49 - Virtual Lab. Demonstration (Fluid Mechanics - Part 3)
- Lecture 50 - Basics of Engineering Statistics
- Lecture 51 - Basics of Descriptive Statistics
- Lecture 52 - Basics of Inferential Statistics
- Lecture 53 - Design of Experiments