

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

NPTEL Video Course - Mechanical Engineering - Applied Thermodynamics

Subject Co-ordinator - Dr. Babu Viswanathan

Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction
- Lecture 2 - Entropy change of a control volume - Part 1
- Lecture 3 - Entropy change of a control volume - Part 2
- Lecture 4 - Entropy change of a control volume - Part 3
- Lecture 5 - Work interaction of internally reversible steady flow processes
- Lecture 6 - Exergy - Part 1
- Lecture 7 - Exergy - Part 2
- Lecture 8 - Exergy - Part 3
- Lecture 9 - Exergy - Part 4
- Lecture 10 - Exergy - Part 5
- Lecture 11 - Thermodynamic cycles - Rankine cycle - Part 1
- Lecture 12 - Thermodynamic cycles - Rankine cycle - Part 2
- Lecture 13 - Thermodynamic cycles - Rankine cycle - Part 3
- Lecture 14 - Thermodynamic cycles - Air standard Brayton cycle - Part 1
- Lecture 15 - Thermodynamic cycles - Air standard Brayton cycle - Part 2
- Lecture 16 - Thermodynamic cycles - Air standard Brayton cycle - Part 3
- Lecture 17 - Thermodynamic cycles - Air standard Brayton cycle - Part 4
- Lecture 18 - Thermodynamic cycles - Air standard Brayton cycle - Part 5
- Lecture 19 - Thermodynamic cycles - Air standard Otto cycle
- Lecture 20 - Thermodynamic cycles - Air standard Diesel cycle - Part 1
- Lecture 21 - Thermodynamic cycles - Air standard Diesel cycle - Part 2
- Lecture 22 - Thermodynamic cycles - Vapor compression refrigeration cycle
- Lecture 23 - Psychrometry - Part 1
- Lecture 24 - Psychrometry - Part 2
- Lecture 25 - Psychrometry - Part 3
- Lecture 26 - Psychrometry - Part 4
- Lecture 27 - Psychrometry - Part 5
- Lecture 28 - Psychrometry - Part 6
- Lecture 29 - Psychrometry - Part 7

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- Lecture 30 - Combustion thermodynamics - Part 1
- Lecture 31 - Combustion thermodynamics - Part 2
- Lecture 32 - Combustion Thermodynamics - Part 3
- Lecture 33 - Combustion thermodynamics - Part 4
- Lecture 34 - Compressible flow through nozzles - Part 1
- Lecture 35 - Compressible flow through nozzles - Part 2
- Lecture 36 - Compressible flow through nozzles - Part 3
- Lecture 37 - Compressible flow through nozzles - Part 4
- Lecture 38 - Compressible flow through nozzles - Part 5
- Lecture 39 - Compressible flow through nozzles - Part 6
- Lecture 40 - Compressible flow through nozzles - Part 7
- Lecture 41 - Compressible flow through nozzles - Part 8
- Lecture 42 - Compressible flow through nozzles - Part 9
- Lecture 43 - Compressible flow through nozzles - Part 10
- Lecture 44 - Compressible flow through nozzles - Part 11
- Lecture 45 - Compressible flow through nozzles - Part 12