

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

NPTEL Video Course - Mechanical Engineering - NOC:Energy Conservation and Waste Heat Recovery

Subject Co-ordinator - Prof. PK Das

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction to waste heat recovery
Lecture 2 - Introduction to waste heat recovery (Continued...)
Lecture 3 - Introduction to waste heat recovery (Continued...)
Lecture 4 - Introduction to waste heat recovery (Continued...)
Lecture 5 - Thermodynamic principles of waste heat recovery
Lecture 6 - Thermodynamic principles of waste heat recovery (Continued...)
Lecture 7 - Thermodynamic principles of waste heat recovery (Continued...)
Lecture 8 - Thermodynamic principles of waste heat recovery (Continued...)
Lecture 9 - Reversible Cycles
Lecture 10 - Reversible Cycles (Continued...)
Lecture 11 - Entropy
Lecture 12 - Entropy (Continued...)
Lecture 13 - Entropy (Continued...), Exergy
Lecture 14 - Exergy, Second Law efficiency
Lecture 15 - Second Law efficiency (Continued...)
Lecture 16 - Recapitulation of common power cycles
Lecture 17 - Recapitulation of common power cycles (Continued...)
Lecture 18 - Recapitulation of common power cycles (Continued...)
Lecture 19 - Recapitulation of common power cycles (Continued...)
Lecture 20 - Recapitulation of common power cycles (Continued...)
Lecture 21 - Recapitulation of common power cycles (Continued...)
Lecture 22 - Gas Turbine cycle
Lecture 23 - Combined cycle
Lecture 24 - Combined cycle (Continued...)
Lecture 25 - Combined Cycle (Continued...)
Lecture 26 - Heat recovery steam generator
Lecture 27 - Thermodynamic cycles for low temperature application
Lecture 28 - Thermodynamic cycles for low temperature application (Continued...), Cogeneration
Lecture 29 - Heat Exchanger

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- Lecture 30 - Heat Exchanger (Continued...)
- Lecture 31 - Heat Exchanger (Continued...)
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- Lecture 36
- Lecture 37 - Heat Pipe - Part I
- Lecture 38 - Heat Pipe - Part II
- Lecture 39 - Heat Pipe - Part III
- Lecture 40 - Direct Conversion - Introduction to TEG
- Lecture 41 - Thermoelectric Generators - Functioning and Applications
- Lecture 42 - TEG - performance analysis
- Lecture 43 - TEG - performance optimization
- Lecture 44 - Direct Conversion - Magneto Hydro dynamics (MHD)
- Lecture 45 - Direct Conversion - Thermo-Ionic generation
- Lecture 46 - Direct Conversion - Thermo Photo Voltaic generation (TPV)
- Lecture 47 - Heat Pumps - I
- Lecture 48 - Heat Pumps - II
- Lecture 49 - Heat Pumps - III
- Lecture 50 - Waste Heat Recovery from Incinerator Plants
- Lecture 51 - Energy Storage Systems - I
- Lecture 52 - Energy Storage Systems - II
- Lecture 53 - Energy Storage Systems - III
- Lecture 54 - Energy Storage Systems - IV
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- Lecture 68 - Corrigendum

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