

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

NPTEL Video Course - Mechanical Engineering - NOC:Steam Power Engineering

Subject Co-ordinator - Dr. Vinayak Kulkarni

Co-ordinating Institute - IIT - Guwahati

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

Lecture 1 - Review of thermodynamics
Lecture 2 - Rankine cycle
Lecture 3 - Performance estimation of steam power cycles
Lecture 4 - Carnot cycle examples
Lecture 5 - Rankine cycle with superheat
Lecture 6 - Rankine cycle with reheat theory and example
Lecture 7 - Examples of Rankine cycle
Lecture 8 - Examples of reheat Rankine cycle
Lecture 9 - Rankine cycle with regeneration
Lecture 10 - Feedwater heaters
Lecture 11 - Cogeneration of power and process heat
Lecture 12 - Examples of regeneration
Lecture 13 - Examples of regenerative Rankine cycle
Lecture 14 - Binary/multi-fluid cycles
Lecture 15 - Low temperature power cycles
Lecture 16 - Examples of binary cycles
Lecture 17 - Types of boilers
Lecture 18 - Boiler accessories
Lecture 19 - Practice examples
Lecture 20 - Stagnation conditions and Nozzle flow
Lecture 21 - Nozzle flow
Lecture 22 - Examples of Nozzle
Lecture 23 - Impulse Turbine - 1
Lecture 24 - Impulse Turbine - 2
Lecture 25 - Examples on Impulse Turbine
Lecture 26 - Reaction Turbine
Lecture 27 - Reheat Factor
Lecture 28 - Examples on Turbine - 1
Lecture 29 - Examples on Turbine - 2

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Lecture 30 - Gas Mixture
Lecture 31 - Psychrometry - 1
Lecture 32 - Psychrometry - 2
Lecture 33 - Condensers