

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

NPTEL Video Course - Mechanical Engineering - NOC:Introduction to Turbomachinery

Subject Co-ordinator - Prof. Subrata Sarkar

Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Introduction and Classification
Lecture 2 - Introduction and Classification (Continued...)
Lecture 3 - Review of the Fundamental Laws
Lecture 4 - Equation of Motion in Rotating Frame
Lecture 5 - Euler Equation for Turbomachinery
Lecture 6 - Euler Equation for Turbomachinery: Illustration
Lecture 7 - Problem Session - Chapter-1: Applications of Euler Equation
Lecture 8 - Similarity Analysis - I
Lecture 9 - Similarity Analysis - II
Lecture 10 - Similarity Analysis - III
Lecture 11 - Problem Session - II
Lecture 12 - Cassade Analysis - I
Lecture 13 - Cassade Analysis - II
Lecture 14 - Cassade Analysis - III
Lecture 15 - Cassade Analysis - IV
Lecture 16 - Cassade Analysis (Problem Session)
Lecture 17 - Gas Turbine Cycle Analysis - I
Lecture 18 - Gas Turbine Cycle Analysis - II
Lecture 19 - Gas Turbine Cycle Analysis - III
Lecture 20 - Gas Turbine Cycle Analysis - IV
Lecture 21 - Gas Turbine Cycle Analysis - V
Lecture 22 - Illustrative Examples Gas Turbine Cycle
Lecture 23 - Illustrative Examples Jet Propulsion
Lecture 24 - Axial Flow Compressor - I
Lecture 25 - Axial Flow Compressor - II
Lecture 26 - Axial Flow Compressor - III
Lecture 27 - Axial Flow Compressor - IV
Lecture 28 - Illustrative Examples Axial Flow Compressor
Lecture 29 - Centrifugal Compressor - I

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- Lecture 30 - Centrifugal Compressor - II
- Lecture 31 - Centrifugal Compressor - III
- Lecture 32 - Axial Flow Turbine - I
- Lecture 33 - Axial Flow Turbine - II
- Lecture 34 - Axial Flow Turbine - III
- Lecture 35 - Axial Flow Turbine - IV
- Lecture 36 - Axial Flow Turbine - V
- Lecture 37 - Axial Flow Steam Turbine - I
- Lecture 38 - Axial Flow Steam Turbine - II
- Lecture 39 - Axial Flow Steam Turbine - III
- Lecture 40 - Axial Flow Steam Turbine - IV
- Lecture 41 - Axial Flow Steam Turbine - V
- Lecture 42 - Axial Flow Steam Turbine - VI
- Lecture 43 - Hydraulic Turbines - I (Pelton Wheel)
- Lecture 44 - Hydraulic Turbines - II (Illustrations on Pelton Wheel)
- Lecture 45 - Hydraulic Turbines - III (Reaction Turbine)
- Lecture 46 - Hydraulic Turbines - IV (Cavitation)
- Lecture 47 - Hydraulic Turbines - V (Illustrations on Reaction Turbine)
- Lecture 48 - CFD and Turbomachinery - I
- Lecture 49 - CFD and Turbomachinery - II
- Lecture 50 - CFD and Turbomachinery - III