

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

NPTEL Video Course - Mechanical Engineering - NOC:Fluid Machines

Subject Co-ordinator - Prof. S.K. Som

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Definition of Fluid Machines and Energy Transfer in Fluid Machines - Part I
Lecture 2 - Energy Transfer in Fluid Machines - Part II
Lecture 3 - Impulse and Reaction Machines
Lecture 4 - Principles of Similarity in Fluid Machine
Lecture 5 - Concept of Specific Speed
Lecture 6 - Basic Principles, Analysis of Force and Power Generation - Part I
Lecture 7 - Basic Principles, Analysis of Force and Power Generation - Part II
Lecture 8 - Specific Speed Governing and Limitations of Impulse Turbine
Lecture 9 - Tutorial - I
Lecture 10 - Tutorial - II
Lecture 11 - Introduction and Analysis of Force on Francis Turbine (Radial Flow) - Part I
Lecture 12 - Analysis of Force (Part-II) and Power Generation
Lecture 13 - Draft Tube
Lecture 14 - Tutorial - III
Lecture 15 - Tutorial - IV
Lecture 16 - Axial Flow Turbine
Lecture 17 - Governing of Reaction Turbine
Lecture 18 - Introduction to Rotodynamic Pumps
Lecture 19 - Flow and Energy Transfer to Centrifugal Pumps
Lecture 20 - Tutorial - V
Lecture 21 - Characteristics of a Centrifugal Pump
Lecture 22 - Matching of Pump and System Characteristics
Lecture 23 - Diffuser and Cavitation
Lecture 24 - Tutorial - VI
Lecture 25 - Tutorial - VIII
Lecture 26 - Axial Flow Pump
Lecture 27 - Reciprocating Pump - Part I
Lecture 28 - Reciprocating Pump - Part II
Lecture 29 - Tutorial - VIII

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

- Lecture 30 - Basic Principles and Energy Transfer in Centrifugal Compressor - Part I
- Lecture 31 - Basic Principles and Energy Transfer in Centrifugal Compressor - Part II
- Lecture 32 - Basic Principles and Energy Transfer in Centrifugal Compressor - Part III
- Lecture 33 - Basic Principles and Energy Transfer in Centrifugal Compressor - Part IV and Losses in Centrifugal Compressor
- Lecture 34 - Performance Characteristics of Centrifugal Compressors - Part I
- Lecture 35 - Performance Characteristics of Centrifugal Compressors - Part II
- Lecture 36 - Basic Principles and Energy Transfer in Axial Flow Compressor - Part I
- Lecture 37 - Basic Principles and Energy Transfer in Axial Flow Compressor - Part II
- Lecture 38 - Fans and Blowers - Part I
- Lecture 39 - Fans and Blowers - Part II