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

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NPTEL Video Course - Mechanical Engineering - NOC: Conduction and Convection Heat Transfer
Subject Co-ordinator - Prof. S.K. Som, Prof. S. Chakraborty
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Introduction and Fundamental Concepts - I
Lecture 2 - Introduction and Fundamental Concepts - II
Lecture 3 - Heat Conduction Equation
Lecture 4 - Heat Conduction Equation and Different Types of Boundary Conditions
Lecture 5 - 1D Steady State Heat Conduction In Plane Wall Without Generation of Thermal Energy
Lecture 6 - 1D Steady State Heat Conduction In Plane Wall With Generation of Thermal Energy
Lecture 7 - Problems on 1D Steady State Heat Conduction In Plane Wall
Lecture 8 - 1D Steady State Heat Conduction In Cylindrical Geometry
Lecture 9 - 1D Steady State Heat Conduction In Cylindrical Geometry (Continued...)
Lecture 10 - 1D Steady State Heat Conduction in Spherical Geometry
Lecture 11 - Hear Transfer from Extended Surfaces (Fins)
Lecture 12 - Hear Transfer from Extended Surfaces (Continued...)
Lecture 13 - Two-dimensional Steady State Heat Conduction
Lecture 14 - Unsteady State Heat Conduction
Lecture 15 - Unsteady State Heat Conduction (Continued...)
Lecture 16 - One Dimensional Unsteady State Heat Conduction - I
Lecture 17 - One Dimensional Unsteady State Heat Conduction - II
Lecture 18 - Introduction to Convection
Lecture 19 - Convection - I
Lecture 20 - Review of Fluid Mechanics - I
Lecture 21 - Review of Fluid Mechanics - II
Lecture 22 - Review of Fluid Mechanics - III
Lecture 23 - Review of Fluid Mechanics - IV
Lecture 24 - Review of Fluid Mechanics - V
Lecture 25 - Review of Fluid Mechanics - VI
Lecture 26 - Review of Fluid Mechanics - VIII
Lecture 27 - Energy Equation - I
Lecture 28 - Energy Equation - II and Thermal Boundary Layer - I
Lecture 29 - Thermal Boundary Layer - II
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Lecture 30 - Integral Method for Thermal BL Analysis
Lecture 31 - Internal Forced Convection - I
Lecture 32 - Internal Forced Convection - II
Lecture 33 - Internal Forced Convection - III
Lecture 34 - Internal Forced Convection - IV
Lecture 35 - Free Convection - I (Natural Convection)
Lecture 36 - Free Convection - II (Natural Convection)
Lecture 37 - Boiling and Condensation - I
Lecture 38 - Boiling and Condensation - II
Lecture 39 - Heat Exchanger - I
Lecture 40 - Heat Exchanger - II
Lecture 41 - Heat Exchanger - II (Continued...)
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