

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

NPTEL Video Course - Mechanical Engineering - NOC:Conduction and Convection Heat Transfer (Prof. S. Chakraborty)

Subject Co-ordinator - Prof. S. Chakraborty

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction To Conduction
Lecture 2 - 1-D Steady State Conduction
Lecture 3 - Introduction To Convection
Lecture 4 - Conduction Equation:Internal Energy Form
Lecture 5 - Conduction Equation:C-P Form
Lecture 6 - Conduction Equation:Boundary Conditions And Problems
Lecture 7 - 1-D Steady State Conduction
Lecture 8 - Concept Of Thermal Resistance
Lecture 9 - 1-D Steady State Conduction - II
Lecture 10 - 1-D Steady State Conduction - II (Continued...)
Lecture 11 - Problems On 1-D Steady State Conduction - I
Lecture 12 - Problems On 1-D Steady State Conduction - I (Continued....)
Lecture 13 - Problems On 1-D Steady State Conduction - II
Lecture 14 - Conduction In Cylindrical Geometry
Lecture 15 - Critical Insulation Thickness
Lecture 16 - Critical Insulation Thickness (Continued...)
Lecture 17 - Problems On Conduction In Cylindrical Geometry - I
Lecture 18 - Problems On Conduction In Cylindrical Geometry - I (Continued...)
Lecture 19 - Problems On Conduction In Cylindrical Geometry - II and Conduction in Spherical Geometry
Lecture 20 - Heat Transfer From Extended surfaces
Lecture 21 - Boundary Conditions at the FIN tip
Lecture 22 - Boundary Conditions at the FIN tip
Lecture 23 - Problems on Heat Transfer from Extended Surfaces
Lecture 24 - 2D Steady State Conduction
Lecture 25 - Separation of Variables Method for 2-D Steady State Conduction
Lecture 26 - Superposition Method for 2-D Steady State Conduction
Lecture 27 - Transient Conduction: Lumped Parameter Approach
Lecture 28 - Problems on Lumped Parameter Approach
Lecture 29 - Transient Conduction: Infinite Slab

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Lecture 30 - Transient Conduction: Semi - Infinite Slab - I
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Lecture 37 - Review of Fluid Mechanics - V
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Lecture 53 - Natural Convection - 1
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