

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

NPTEL Video Course - Chemical Engineering - NOC:Chemical Engineering Fluid Dynamics and Heat Transfer

Subject Co-ordinator - Prof. Rabibrata Mukherjee, Prof. Arnab Atta

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction Basic Concepts and Kinematics - 1
Lecture 2 - Kinematics - 2
Lecture 3 - Kinematics - 3
Lecture 4 - Kinematics - 4
Lecture 5 - Kinematics - 5 - Shear Stress
Lecture 6 - Kinematics - 6 and Conservation Equation - 1
Lecture 7 - Conservation Equation - 2
Lecture 8 - Conservation Equation - 3 - Conservation of Momentum
Lecture 9 - Conservation Equation - 4 - Conservation of Momentum - 2
Lecture 10 - Conservation Equation - 5 - Conservation of Momentum - 3
Lecture 11 - Exact Solution - 1
Lecture 12 - Exact Solution - 2
Lecture 13 - Exact Solution - 3
Lecture 14 - Exact Solution - 4
Lecture 15 - Boundary Layer Analysis - 1
Lecture 16 - Boundary Layer Analysis - 2
Lecture 17 - Boundary Layer Analysis - 3
Lecture 18 - Boundary Layer Analysis - 4: Blasius Solution - 1
Lecture 19 - Boundary Layer Analysis - 4: Blasius Solution - 2
Lecture 20 - Boundary Layer Analysis - 5: Momentum Integral Method - 1
Lecture 21 - Boundary Layer Analysis - 6: Momentum Integral Method - 2
Lecture 22 - Boundary Layer Analysis - 6: Momentum Integral Method - 3
Lecture 23 - Turbulence - 1
Lecture 24 - Turbulence - 2
Lecture 25 - Turbulence - 3
Lecture 26 - Turbulence - 4
Lecture 27 - Turbulence - 5
Lecture 28 - Turbulence - 6
Lecture 29 - Turbulence - 7

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- Lecture 30 - Turbulence - 8 and Final Wrap-up
- Lecture 31 - Fundamentals and Mechanism of Heat Transfer
- Lecture 32 - Fundamentals and Mechanism of Heat Transfer (Continued...)
- Lecture 33 - Fundamentals and Mechanism of Heat Transfer (Continued...)
- Lecture 34 - Fundamentals and Mechanism of Heat Transfer (Continued...)
- Lecture 35 - Fundamentals and Mechanism of Heat Transfer (Continued...)
- Lecture 36 - One-dimensional Heat Conduction
- Lecture 37 - One-dimensional Heat Conduction (Continued...)
- Lecture 38 - One-dimensional Heat Conduction (Continued...)
- Lecture 39 - One-dimensional Heat Conduction (Continued...)
- Lecture 40 - One-dimensional Heat Conduction (Continued...)
- Lecture 41 - One-dimensional Heat Conduction (Continued...)
- Lecture 42 - One-dimensional Heat Conduction (Continued...)
- Lecture 43 - Transient Heat Conduction
- Lecture 44 - Transient Heat Conduction (Continued...)
- Lecture 45 - Transient Heat Conduction (Continued...)
- Lecture 46 - Forced Convection
- Lecture 47 - Forced Convection (Continued...)
- Lecture 48 - Forced Convection (Continued...)
- Lecture 49 - Forced Convection (Continued...)
- Lecture 50 - Forced Convection (Continued...)
- Lecture 51 - Internal Forced Convection
- Lecture 52 - Internal Forced Convection (Continued...)
- Lecture 53 - Internal Forced Convection (Continued...)
- Lecture 54 - Internal Forced Convection (Continued...)
- Lecture 55 - Internal Forced Convection (Continued...)
- Lecture 56 - Natural Convection
- Lecture 57 - Natural Convection (Continued...)
- Lecture 58 - Boiling and Condensation
- Lecture 59 - Radiation
- Lecture 60 - Radiation (Continued...)