

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

NPTEL Video Course - Chemical Engineering - NOC:Transport Phenomena

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Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction
- Lecture 2 - Fourier and Fick's Laws
- Lecture 3 - Shell Momentum Balance
- Lecture 4 - Example of Shell Momentum Balance
- Lecture 5 - Example of Shell Momentum Balance (Continued...)
- Lecture 6 - Example of Shell Momentum Balance (Continued...)
- Lecture 7 - Example of Shell Momentum Balance (Continued...)
- Lecture 8 - Example of Shell Momentum Balance (Continued...)
- Lecture 9 - Equations of Change for Isothermal Systems
- Lecture 10 - Equations of Change for Isothermal Systems (Continued...)
- Lecture 11 - Equations of Change for Isothermal Systems (Continued...)
- Lecture 12 - Equations of Change for Isothermal Systems (Continued...)
- Lecture 13 - Equations of Change for Isothermal Systems (Continued...)
- Lecture 14 - Equations of Change for Isothermal Systems (Continued...)
- Lecture 15 - Unsteady Flow
- Lecture 16 - Boundary Layers
- Lecture 17 - Boundary Layers (Continued...)
- Lecture 18 - Boundary Layers (Continued...)
- Lecture 19 - Boundary Layers (Continued...)
- Lecture 20 - Boundary Layers (Continued...)
- Lecture 21 - Boundary Layers (Continued...)
- Lecture 22 - Boundary Layers (Continued...)
- Lecture 23 - Boundary Layers (Continued...)
- Lecture 24 - Boundary Layers (Continued...)
- Lecture 25 - Turbulent Boundary Layers
- Lecture 26 - Turbulent Boundary Layers (Continued...)
- Lecture 27 - Turbulent Boundary Layers (Continued...)
- Lecture 28 - Drag
- Lecture 29 - Drag (Continued...)

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- Lecture 30 - Heat Transfer Basics
- Lecture 31 - Heat Transfer Basics (Continued...)
- Lecture 32 - 1-D Heat Conduction - Temperature Distributions
- Lecture 33 - 1-D Heat Conduction - Shell Heat Balance
- Lecture 34 - Shell Heat Balance
- Lecture 35 - Viscous Dissipation
- Lecture 36 - Transient Conduction
- Lecture 37 - Transient Conduction (Continued...)
- Lecture 38 - Forced Convection
- Lecture 39 - Energy Equation
- Lecture 40 - Energy Equation (Continued...)
- Lecture 41 - Free Convection
- Lecture 42 - Thermal Boundary Layer
- Lecture 43 - Mass Transfer
- Lecture 44 - Mass Transfer (Continued...)
- Lecture 45 - Mass Transfer (Continued...)
- Lecture 46 - Mass Transfer (Continued...)
- Lecture 47 - Mass Transfer (Continued...)
- Lecture 48 - Mass Transfer (Continued...)
- Lecture 49 - Mass Transfer (Continued...)
- Lecture 50 - Mass Transfer (Continued...)
- Lecture 51 - (Lecture Missing)
- Lecture 52 - Boundary Layer Similarity
- Lecture 53 - Boundary Layer - Analogy
- Lecture 54 - Analogy - Tutorial I
- Lecture 55 - Analogy - Tutorial II