

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

NPTEL Video Course - Chemical Engineering - NOC:Momentum Transfer in Fluids

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Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Introduction and Basic Concepts
- Lecture 2 - Elementary Framework
- Lecture 3 - Elementary Framework (Continued...)
- Lecture 4 - Elementary Framework (Continued...)
- Lecture 5 - Elementary Framework (Continued...)
- Lecture 6 - Shell Momentum Balance - 1
- Lecture 7 - Shell Momentum Balance - 2
- Lecture 8 - Shell Momentum Balance - 3
- Lecture 9 - Shell Momentum Balance - 4
- Lecture 10 - Limitations and General Approach - Continuity Equation
- Lecture 11 - Elements of Inviscid Flow
- Lecture 12 - Elements of Inviscid Flow (Continued...)
- Lecture 13 - Elements of Inviscid Flow (Continued...)
- Lecture 14 - Elements of Inviscid Flow (Continued...)
- Lecture 15 - Elements of Inviscid Flow (Continued...)
- Lecture 16 - Equations of Motion - Conceptual Derivation of NS Equations
- Lecture 17 - Use of NS Equation for Solving Previous Problems
- Lecture 18 - Equations of Motion and Applications - 1
- Lecture 19 - Equations of Motion and Applications - 2
- Lecture 20 - Equations of Motion and Applications - 3
- Lecture 21 - Motion of fluid particles
- Lecture 22 - Motion of fluid particles (Continued...)
- Lecture 23 - Motion of fluid particles (Continued...)
- Lecture 24 - Stream Function and Potential Function
- Lecture 25 - Stream Function and Potential Function (Continued... )
- Lecture 26 - Equations of Motion and Applications - 4
- Lecture 27 - Equations of Motion and Applications - 5
- Lecture 28 - Basic Equations in Integral Form - 1
- Lecture 29 - Basic Equations in Integral Form - 2

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- Lecture 30 - Basic Equations in Integral Form - 3
- Lecture 31 - Complex Potential
- Lecture 32 - Complex Potential (Continued...)
- Lecture 33 - Complex Potential (Continued...)
- Lecture 34 - Complex Potential (Continued...)
- Lecture 35 - Complex Potential (Continued...)
- Lecture 36 - Basic Equations in Integral Form - 4
- Lecture 37 - Basic Equations in Integral Form - 5
- Lecture 38 - Basic Equations in Integral Form - 6
- Lecture 39 - Bernoulli's Equation Fundamentals - 1
- Lecture 40 - Bernoulli's Equation Fundamentals - 2
- Lecture 41 - Elements of Fluid Statics and Associated Problems
- Lecture 42 - Elements of Fluid Statics and Associated Problems (Continued... )
- Lecture 43 - Elements of Fluid Statics and Associated Problems (Continued... )
- Lecture 44 - Dimensional Analysis and Similitude
- Lecture 45 - Dimensional Analysis and Similitude (Continued...)
- Lecture 46 - Bernoulli's Equation Application - 1
- Lecture 47 - Bernoulli's Equation Application - 2
- Lecture 48 - Bernoulli's Equation Application - 3
- Lecture 49 - Bernoulli's Equation Application - 4
- Lecture 50 - Bernoulli's Equation Application - 5
- Lecture 51 - Bernoulli's Equation Application - 6
- Lecture 52 - Flow meters
- Lecture 53 - Pumps
- Lecture 54 - Recap of Fluid Dynamics
- Lecture 55 - Cavitation and Net Positive Suction Head
- Lecture 56 - Flow Metering and Associated Problems
- Lecture 57 - Flow Metering and Associated Problems (Continued... )
- Lecture 58 - Flow Metering and Associated Problems (Continued... )
- Lecture 59 - Turbulence
- Lecture 60 - Flow Through Porous Media