

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

NPTEL Video Course - Mechanical Engineering - Introduction to Fluid Mechanics and Fluid Engineering

Subject Co-ordinator - Prof. S. Chakraborty

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introductory Concepts

Lecture 2 - Introductory Concepts (Continued...)

Lecture 3 - Introductory Concepts (Continued...)

Lecture 4 - Viscosity

Lecture 5 - Viscosity (Continued...)

Lecture 6 - Viscosity (Continued...) and Surface Tension

Lecture 7 - Surface Tension (Continued...) and Fluid Statics

Lecture 8 - Fluid Statics (Continued...)

Lecture 9 - Fluid Statics (Continued...)

Lecture 10 - Fluid Statics (Continued...) and Fluid Under Rigid Body Motion

Lecture 11 - Fluid Kinematics

Lecture 12 - Fluid Kinematics (Continued...)

Lecture 13 - Fluid Kinematics (Continued...)

Lecture 14 - Fluid Kinematics (Continued...)

Lecture 15 - Fluid Kinematics (Continued...)

Lecture 16 - Dynamics of Inviscid Flows

Lecture 17 - Dynamics of Inviscid Flows (Continued...)

Lecture 18 - Dynamics of Inviscid Flows (Continued...)

Lecture 19 - Dynamics of Inviscid Flows (Continued...)

Lecture 20 - Dynamics of Inviscid Flows (Continued...)

Lecture 21 - Integral Forms of Control Volume Conservation Equations (Reynolds Transport Theorem)

Lecture 22 - Integral Forms of Control Volume Conservation Equations (Reynolds Transport Theorem) (Continued...)

Lecture 23 - Integral Forms of Control Volume Conservation Equations (Reynolds Transport Theorem) (Continued...)

Lecture 24 - Integral Forms of Control Volume Conservation Equations (Reynolds Transport Theorem) (Continued...)

Lecture 25 - Integral Forms of Control Volume Conservation Equations (Reynolds Transport Theorem) (Continued...)

Lecture 26 - Integral Forms of Control Volume Conservation Equations (Reynolds Transport Theorem) (Continued...)

Lecture 27 - Integral Forms of Control Volume Conservation Equations (Reynolds Transport Theorem) (Continued...)

Lecture 28 - Dynamics of Viscous Flows

Lecture 29 - Dynamics of Viscous Flows

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- Lecture 30 - Some Exact Solutions of Navier Stokes Equation
- Lecture 31 - Some Exact Solutions of Navier Stokes Equation (Continued...)
- Lecture 32 - Some Exact Solutions of Navier Stokes Equation (Continued...)
- Lecture 33 - Introduction to Turbulence
- Lecture 34 - Introduction to Turbulence (Continued...)
- Lecture 35 - Introduction to Turbulence (Continued...)
- Lecture 36 - Introduction to Turbulence (Continued...)
- Lecture 37 - Boundary Layer Theory
- Lecture 38 - Boundary Layer Theory (Continued...)
- Lecture 39 - Boundary Layer Theory (Continued...)
- Lecture 40 - Boundary Layer Theory (Continued...) and Flow Past Immersed Bodies
- Lecture 41 - Flow past Immersed Bodies (Continued...)
- Lecture 42 - Potential Flow Past Immersed Bodies
- Lecture 43 - Potential Flow (Continued...) and Flow Past Immersed Bodies of Special Shapes
- Lecture 44 - Flow Past Immersed Bodies (Continued...) and Sports Ball Aerodynamics
- Lecture 45 - Pipe Flow
- Lecture 46 - Pipe Flow (Continued...)
- Lecture 47 - Pipe Flow (Continued...)
- Lecture 48 - Principles of Similarity and Dimensional Analysis
- Lecture 49 - Introduction to Fluid Machines
- Lecture 50 - Introduction to Fluid Machines (Continued...)
- Lecture 51 - Introduction to Fluid Machines (Continued...)
- Lecture 52 - Introduction to Fluid Machines (Continued...)
- Lecture 53 - Introduction to Fluid Machines (Continued...)
- Lecture 54 - Compressible Flows
- Lecture 55 - Compressible Flows (Continued...)
- Lecture 56 - Compressible Flows (Continued...)
- Lecture 57 - Compressible Flows (Continued...)
- Lecture 58 - Compressible Flows (Continued...)