

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

NPTEL Video Course - Mechanical Engineering - Micro fluidics

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Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction to Microfluidics
Lecture 2 - Microfluidics
Lecture 3 - Microfluidics
Lecture 4 - Equations of Conservation
Lecture 5 - Navier Stokes Equation
Lecture 6 - Navier Stokes Equation (Continued...)
Lecture 7 - Energy Equation
Lecture 8 - Energy Equation (Continued...) and Species Conservation Equation
Lecture 9 - Pressure-driven Microflows
Lecture 10 - Pressure-driven Microflows (Continued...)
Lecture 11 - Pressure-driven Microflows (Continued...)
Lecture 12 - Pressure-driven Microflows (Continued...)
Lecture 13 - Pressure -driven Microflows (Continued...)
Lecture 14 - Some Examples of Unsteady Flows
Lecture 15 - Some Examples of Unsteady Flows (Continued...)
Lecture 16 - Some Examples of Unsteady Flows (Continued...)
Lecture 17 - Stokes Drag on a Sphere
Lecture 18 - Stokes Drag on a Sphere (Continued...) and Introduction to Lubrication Theory
Lecture 19 - Lubrication Theory (Continued...)
Lecture 20 - Lubrication Theory (Continued...)
Lecture 21 - Boundary Condition in Fluid Mechanics
Lecture 22 - Boundary Condition in Fluid Mechanics
Lecture 23 - Surface Tension Driven Flows
Lecture 24 - Surface Tension Driven Flows (Continued...)
Lecture 25 - Surface Tension Driven Flows (Continued...)
Lecture 26 - Surface Tension Driven Flows (Continued...)
Lecture 27 - Surface Tension Driven Flows (Continued...) and Modulating Surface Tension
Lecture 28 - Modulating Surface Tension (Continued...)
Lecture 29 - Thin Film Dynamics

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- Lecture 30 - Thin Film Dynamics (Continued...)
- Lecture 31 - Thin Film Dynamics (Continued...)
- Lecture 32 - Thin Film Dynamics (Continued...)
- Lecture 33 - Lab on a CD
- Lecture 34 - Lab on a CD (Continued...)
- Lecture 35 - Introduction to Microfabrication
- Lecture 36 - Electrokinetics
- Lecture 37 - Electrokinetics (Continued...)
- Lecture 38 - Electrokinetics (Continued...)
- Lecture 39 - Electrokinetics (Continued...)
- Lecture 40 - Electrokinetics (Continued...)
- Lecture 41 - Electrokinetics (Continued...)
- Lecture 42 - Dispersion
- Lecture 43 - Introduction to Nanofluidics
- Lecture 44 - Introduction to Nanofluidics (Continued...) and Molecular Dynamics Simulations
- Lecture 45 - Introduction to Molecular Dynamics Simulations (Continued...)
- Lecture 46 - Biomicrofluidics
- Lecture 47 - Biomicrofluidics (Continued...)
- Lecture 48 - Nanofluidic Energy Conversion