

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

NPTEL Video Course - Mechanical Engineering - Microfluidics

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Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction and Scaling
- Lecture 2 - Scaling
- Lecture 3 - Micro-scale fluid mechanics
- Lecture 4 - Micro-scale fluid mechanics (Continued...)
- Lecture 5 - Micro-scale fluid mechanics (Continued...)
- Lecture 6 - Micro-scale fluid mechanics (Continued...)
- Lecture 7 - Micro-scale fluid mechanics (Continued...)
- Lecture 8 - Micro-scale fluid mechanics (Continued...)
- Lecture 9 - Micro-scale fluid mechanics (Continued...)
- Lecture 10 - Micro-scale fluid mechanics (Continued...)
- Lecture 11 - Capillary Flows
- Lecture 12 - Capillary Flows (Continued...)
- Lecture 13 - Capillary Flows and Electrokinetics
- Lecture 14 - Electrokinetics
- Lecture 15 - Electrokinetics (Continued...)
- Lecture 16 - Electrokinetics (Continued...)
- Lecture 17 - Electrokinetics (Continued...)
- Lecture 18 - Electrokinetics (Continued...)
- Lecture 19 - Electrokinetics (Continued...)
- Lecture 20 - Electrokinetics and Magnetophoresis
- Lecture 21 - Microfabrication Techniques
- Lecture 22 - Microfabrication Techniques (Continued...)
- Lecture 23 - Microfabrication Techniques (Continued...)
- Lecture 24 - Microfabrication Techniques (Continued...)
- Lecture 25 - Microfabrication Techniques (Continued...)
- Lecture 26 - Microfabrication Techniques (Continued...)
- Lecture 27 - Microfabrication Techniques (Continued...)
- Lecture 28 - Microfabrication Techniques (Continued...)
- Lecture 29 - Micropump

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- Lecture 30 - Micropump (Continued...)
- Lecture 31 - Microvalve
- Lecture 32 - Microvalve (Continued...)
- Lecture 33 - Microvalve (Continued...)
- Lecture 34 - Micro Flow Sensor and Micro mixers
- Lecture 35 - Micro mixers
- Lecture 36 - Micro mixers (Continued...)
- Lecture 37 - Micro droplets
- Lecture 38 - Micro reactors (Continued...)
- Lecture 39 - Micro needles and Microparticle separation
- Lecture 40 - Few applications of microfluidics
- Lecture 41 - Lab Demo