

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

NPTEL Video Course - Mechanical Engineering - NOC:Advanced Measurement Techniques in Fluid Mechanics and Heat

Subject Co-ordinator - Prof Saptarshi Basu

Co-ordinating Institute - IISc - Bangalore

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

Lecture 1 - Introduction to Fluids - 1
Lecture 2 - Introduction to Fluids - 2
Lecture 3 - Introduction to Fluids - 3
Lecture 4 - Recap and description of fluid flows
Lecture 5 - Overview of Measurements in Fluid Mechanics - 1
Lecture 6 - Overview of Measurements in Fluid Mechanics - 2
Lecture 7 - Geometric Optics - 1
Lecture 8 - Geometric Optics - 2
Lecture 9 - Imaging and Optics - 1
Lecture 10 - Imaging and Optics - 2
Lecture 11 - Imaging and Optics - 3
Lecture 12 - Imaging and Optics - 4
Lecture 13 - Imaging and Optics - 5
Lecture 14 - Imaging and Optics - 6
Lecture 15 - Imaging and Optics - 7
Lecture 16 - Introduction to Lasers
Lecture 17 - Introduction to Experimental Data Processing
Lecture 18 - Experimental Image Processing in ImageJ
Lecture 19 - Introduction to Experimental Signal Processing
Lecture 20 - Experimental Signal Processing in MATLAB
Lecture 21 - Overview of Experimental Techniques - 1
Lecture 22 - Overview of Experimental Techniques - 2
Lecture 23 - Schlieren and Shadowgraphy - 1
Lecture 24 - Schlieren and Shadowgraphy - 2
Lecture 25 - Schlieren and Shadowgraphy - 3
Lecture 26 - Schlieren and Shadowgraphy - 4
Lecture 27 - Depth from Defocus - 1
Lecture 28 - Depth from Defocus - 2
Lecture 29 - Depth from Defocus - 3

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- Lecture 30 - Depth from Defocus - 4
- Lecture 31 - Particle Image Velocimetry - 1
- Lecture 32 - Particle Image Velocimetry - 2
- Lecture 33 - Particle Image Velocimetry - 3
- Lecture 34 - Particle Image Velocimetry - 4
- Lecture 35 - Particle Image Velocimetry - 5
- Lecture 36 - Particle Image Velocimetry - 6
- Lecture 37 - Particle Image Velocimetry - 7
- Lecture 38 - Micro PIV - 1
- Lecture 39 - Micro PIV - 2
- Lecture 40 - Micro PIV - 3
- Lecture 41 - Micro PIV - 4
- Lecture 42 - Laser Doppler Velocimetry - 1
- Lecture 43 - Laser Doppler Velocimetry - 2
- Lecture 44 - Laser Doppler Velocimetry - 3
- Lecture 45 - Laser Doppler Velocimetry - 4
- Lecture 46 - Phase Doppler Particle Analyzer - 1
- Lecture 47 - Phase Doppler Particle Analyzer - 2
- Lecture 48 - Phase Doppler Particle Analyzer - 3
- Lecture 49 - Emission Spectroscopy - 1
- Lecture 50 - Emission Spectroscopy - 2
- Lecture 51 - Chemilumescence Measurements - 1
- Lecture 52 - Chemilumescence Measurements - 2
- Lecture 53 - Tunable Diode Laser Absorption Spectroscopy - 1
- Lecture 54 - Tunable Diode Laser Absorption Spectroscopy - 2
- Lecture 55 - Infrared Thermography - 1
- Lecture 56 - Infrared Thermography - 2
- Lecture 57 - Hot Wire Anemometry - 1
- Lecture 58 - Hot Wire Anemometry - 2
- Lecture 59 - Hot Wire Anemometry - 3
- Lecture 60 - General Optics + PIV + Schlieren Demo