

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

NPTEL Video Course - Mechanical Engineering - Mechanical Measurements and Metrology

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Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction to the Study of Mechanical Measurement
- Lecture 2 - Errors in Measurement
- Lecture 3 - Errors in Measurement (Continued...)
- Lecture 4 - Propagation of Errors
- Lecture 5 - Regression Analysis
- Lecture 6 - Regression Analysis (Continued...)
- Lecture 7 - Design of Experiments
- Lecture 8 - Design of Experiments (Continued...)
- Lecture 9 - Temperature Measurement
- Lecture 10 - Overview of Thermometry
- Lecture 11 - Thermoelectric Thermometry
- Lecture 12 - Thermoelectric Thermometry (Continued...)
- Lecture 13 - Measurement of Temperature Under Various Conditions
- Lecture 14 - Errors in Temperature Measurement
- Lecture 15 - Measurement of Transient Temperature and Resistance Thermometry
- Lecture 16 - Resistance Thermometry (Continued...)
- Lecture 17 - Resistance Thermometry (Continued...) and pyrometry
- Lecture 18 - pyrometry (Continued...)
- Lecture 19 - pyrometry (Continued...)
- Lecture 20 - Pressure Measurement (Continued...)
- Lecture 21 - Pressure Measurement (Continued...)
- Lecture 22 - Pressure Measurement (Continued...)
- Lecture 23 - Pressure Measurement (Continued...)
- Lecture 24 - Transient Response of Pressure Transducers
- Lecture 25 - Transient Response of Pressure Transducers
- Lecture 26 - Measurement of High Vacuum
- Lecture 27 - Measurement of Fluid Velocity
- Lecture 28 - Hot Wire Anemometry and Laser Doppler Velocimetry
- Lecture 29 - Laser Doppler Velocimetry and Ultrasonic Methods

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- Lecture 30 - Measurement of Heat Flux
- Lecture 31 - Measurement of Heat Flux (Continued...)
- Lecture 32 - Transient Method of Heat Flux Measurement
- Lecture 33 - Measurement of Volume and Mass Flow Rate of Fluid
- Lecture 34 - Flow Measuring Devices
- Lecture 35 - Measurement of Stagnation and Bulk Mean Temperature
- Lecture 36 - Measurement of Thermo-Physical Properties
- Lecture 37 - Measurement of Thermal Conductivity
- Lecture 38 - Measurement of Heat Capacity and Heating Value
- Lecture 39 - Measurement of Viscosity
- Lecture 40 - Measurement of Viscosity (Continued...)
- Lecture 41 - Integrating Sphere and Measurement of Emissivity
- Lecture 42 - Measurements of Gas Composition
- Lecture 43 - Measurements of Gas Composition (Continued...)
- Lecture 44 - Measurements of Gas Composition and Smoke
- Lecture 45 - Measurement of Force
- Lecture 46 - Force Measurement
- Lecture 47 - Vibration and Acceleration Measurement
- Lecture 48 - Laser Doppler Accelerometer, Speed, Torque
- Lecture 49 - General Issues in Mechanical Measurement
- Lecture 50 - Case Studies