

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

NPTEL Video Course - Mechanical Engineering - NOC:Mechanical Measurement System

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Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Basic concepts of measurement
- Lecture 2 - Functional elements of instruments
- Lecture 3 - Classification of measuring instruments
- Lecture 4 - Methods of correction for interfering and modifying inputs
- Lecture 5 - Static characteristics of measuring instruments - 1
- Lecture 6 - Static characteristics of measuring instruments - 2
- Lecture 7 - Loading effect and Impedance matching
- Lecture 8 - Statistical analysis
- Lecture 9 - Chi-square test
- Lecture 10 - Least square method
- Lecture 11 - Uncertainty analysis
- Lecture 12 - Problem solving - 1
- Lecture 13 - Generalized model of a measuring system
- Lecture 14 - Zero and first order system
- Lecture 15 - First order system - step response
- Lecture 16 - First order system - ramp response
- Lecture 17 - First order system - impulse response
- Lecture 18 - First order system - frequency response
- Lecture 19 - Second order system - step response - 1
- Lecture 20 - Second order system - step response - 2
- Lecture 21 - Second order system - ramp response
- Lecture 22 - Second order system - impulse and frequency response
- Lecture 23 - Higher order systems
- Lecture 24 - Compensation
- Lecture 25 - Transducers - 1
- Lecture 26 - Transducers - 2
- Lecture 27 - Flow measurement - 1
- Lecture 28 - Flow measurement - 2
- Lecture 29 - Temperature measurement - 1

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- Lecture 30 - Temperature measurement - 2
- Lecture 31 - Strain gauges
- Lecture 32 - Piezoelectric transducers
- Lecture 33 - Pressure measurement
- Lecture 34 - Force and torque measurement
- Lecture 35 - Displacement and acceleration measurement
- Lecture 36 - Sound measurement
- Lecture 37 - Thermophysical properties measurement
- Lecture 38 - Flow visualization
- Lecture 39 - Air pollution sampling and measurement
- Lecture 40 - Problem solving - 2