

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

NPTEL Video Course - Electrical Engineering - NOC:Electrical Measurement and Electronic Instruments

Subject Co-ordinator - Prof. Avishek Chatterjee

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - PMMC Instruments
- Lecture 2 - Electrodynamic Instrument
- Lecture 3 - Demonstration of PMMC and Electrodynamic Instruments
- Lecture 4 - Features of PMMC and Electrodynamic Instruments
- Lecture 5 - Moving Iron Instruments
- Lecture 6 - Demonstration of Moving Iron Instrument
- Lecture 7 - Electrostatic Instrument
- Lecture 8 - Derivation of Deflecting Torque in Electrodynamic, Electrostatic and Moving Iron Instrument
- Lecture 9 - Damping and Eddy Current Damping
- Lecture 10 - Dynamics of the Moving Coil and Damping
- Lecture 11 - Dynamics of the Moving Coil and Damping (Continued...)
- Lecture 12 - Ballistic Galvanometer
- Lecture 13 - Ammeter - I
- Lecture 14 - Ammeter - II
- Lecture 15 - Voltmeter
- Lecture 16 - Ohmmeters - I
- Lecture 17 - Ohmmeters - II
- Lecture 18 - Rectifier based Voltmeters and Ammeter - I
- Lecture 19 - Rectifier based Voltmeters and Ammeter - II
- Lecture 20 - Resistance measurement with a Voltmeter and an Ammeter
- Lecture 21 - Four-Terminal Resistance
- Lecture 22 - Problems
- Lecture 23 - Error Calculation
- Lecture 24 - Sensitivity, Accuracy, and Resolution of Wheatstone Bridge
- Lecture 25 - Kelvin Double Bridge
- Lecture 26 - High Resistance Measurement
- Lecture 27 - Wattmeter Connection and Compensated Wattmeter
- Lecture 28 - Single Phase Energy Meter
- Lecture 29 - Demonstration

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- Lecture 30 - Single Phase Energy Meter (Continued...)
- Lecture 31 - Connection of Energy Meter, Wattmeter, and Three Phase Supply
- Lecture 32 - DC Potentiometer
- Lecture 33 - AC Potentiometer
- Lecture 34 - Polar potentiometer and phase shifter
- Lecture 35 - Polar potentiometer
- Lecture 36 - Co-ordinate potentiometer
- Lecture 37 - Kelvin-Varley potential divider
- Lecture 38 - Impedance measurement
- Lecture 39 - AC bridges - I
- Lecture 40 - AC bridges - II
- Lecture 41 - AC bridges - III
- Lecture 42 - Current transformer and potential transformer
- Lecture 43 - Review of transformer and magnetic circuit
- Lecture 44 - Errors in Instrument transformer
- Lecture 45 - Flux density measurement with Ballistic Galvanometer
- Lecture 46 - Flux density measurement with Ballistic Galvanometer (Continued...)
- Lecture 47 - Background
- Lecture 48 - Background
- Lecture 49 - Background
- Lecture 50 - Background
- Lecture 51 - Background
- Lecture 52 - Background
- Lecture 53 - Inverting amplifier versus Schmitt Trigger
- Lecture 54 - Non-inverting amplifier versus Schmitt Trigger
- Lecture 55 - Difference amplifier - I
- Lecture 56 - Difference amplifier - II
- Lecture 57 - Difference amplifier - III
- Lecture 58 - Digital frequency meter
- Lecture 59 - Digital frequency meter and Schmitt Trigger
- Lecture 60 - Schmitt Trigger
- Lecture 61 - Schmitt Trigger
- Lecture 62 - Digital frequency meter
- Lecture 63 - Linear ramp type digital voltmeter
- Lecture 64 - Dual slope digital voltmeter - I
- Lecture 65 - Dual slope digital voltmeter - II
- Lecture 66 - Dual slope digital voltmeter and Integrator circuit
- Lecture 67 - Digital ramp type voltmeter
- Lecture 68 - Digital ramp type voltmeter and Successive approximation type voltmeter

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- Lecture 69 - ADC and DAC - I
- Lecture 70 - ADC and DAC - II
- Lecture 71 - Why we need electronic Instruments
- Lecture 72 - Instruments with op-amp based amplifiers - I
- Lecture 73 - Instruments with op-amp based amplifiers - II
- Lecture 74 - Instruments with op-amp based amplifiers - III
- Lecture 75 - Instrumentation Amplifier
- Lecture 76 - Function generator
- Lecture 77 - 555-Timer circuit
- Lecture 78 - Astable and monostable oscillator circuits
- Lecture 79 - Pulse generator
- Lecture 80 - Oscilloscope - I
- Lecture 81 - Oscilloscope - II
- Lecture 82 - Emitter follower voltmeter
- Lecture 83 - Linear ohmmeter
- Lecture 84 - Ramp generator