

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

NPTEL Video Course - Electrical Engineering - NOC:Electronic Modules for Industrial Applications using Op-Amp

Subject Co-ordinator - Prof. Hardik Jeetendra Pandya

Co-ordinating Institute - IISc - Bangalore

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

Lecture 1 - Introduction to Op-amp
Lecture 2 - Introduction Wafer Manufacturing Process and Clean room Protocols
Lecture 3 - Introduction to Fabrication Process Technology and Op-amp
Lecture 4 - Op-amp Characteristics and Datasheet Parameters
Lecture 5 - Overview of Active Filters and Oscillators
Lecture 6 - Overview of Op-amp Oscillators
Lecture 7 - Introduction to ECG Experiment
Lecture 8 - Design and Implementation of ECG Preprocessing Stage - Part 1
Lecture 9 - Design and Implementation of ECG Preprocessing Stage - Part 2
Lecture 10 - Design and Implementation of ECG Preprocessing Stage - Part 3
Lecture 11 - Design and Implementation of ECG Preprocessing Stage - Part 4
Lecture 12 - Design and Implementation of Peak Detector and Thresholding Circuit for ECG Signal Conditioning
Lecture 13 - Experiment
Lecture 14 - Application
Lecture 15 - Photolithography
Lecture 16 - Understanding the process of photolithography
Lecture 17 - Photolithography
Lecture 18 - Photolithography
Lecture 19 - Fabrication of Piezoresistive Sensor
Lecture 20 - Fabrication of MEMS based Catheter Contact Force Sensor
Lecture 21 - Design of Speed Control of DC Motor
Lecture 22 - Design of Speed Control of DC Motor
Lecture 23 - Design of Speed Control of DC Motor
Lecture 24 - Design of Speed Control of DC Motor
Lecture 25 - Design of Speed Control of DC Motor
Lecture 26 - Design of Speed Control of DC Motor
Lecture 27 - Design of Speed Control of DC Motor
Lecture 28 - Design of Speed Control of DC Motor
Lecture 29 - Design of Speed Control of a DC Motor using Op-amp

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- Lecture 30 - Design of Speed Control of a DC Motor using Op-amp
- Lecture 31 - Design of Speed Control of a DC Motor using DAQ - Part 1
- Lecture 32 - Design of Speed Control of a DC Motor using DAQ - Part 2
- Lecture 33 - Design of Speed Control of a DC Motor using DAQ - Part 3
- Lecture 34 - Introduction to Hot-Wire Anemometer
- Lecture 35 - Signal-conditioning Circuit for Hot-Wire Anemometer
- Lecture 36 - Signal-conditioning Circuit for Hot-Wire Anemometer Part 2
- Lecture 37 - Signal-conditioning Circuit for Hot-Wire Anemometer
- Lecture 38 - Signal-conditioning Circuit for Hot-Wire Anemometer
- Lecture 39 - Introduction to Gas Sensors
- Lecture 40 - Fabrication Process for Gas Sensor
- Lecture 41 - Signalconditioning Circuit for Operating Heater Voltage of MQ-7 Gas Sensor - Part 1
- Lecture 42 - Signalconditioning Circuit for Operating Heater Voltage of MQ-7 Gas Sensor - Part 2
- Lecture 43 - Signalconditioning Circuit for Operating Heater Voltage of MQ-7 Gas Sensor - Part 3
- Lecture 44 - Fundamentals of Electrophysiological signals
- Lecture 45 - Fundamentals of EEG Signal
- Lecture 46 - Application of EEG Signal for Detection of Hearing Loss
- Lecture 47 - Closed loop control of temperature using DAQ and LabVIEW
- Lecture 48 - Experimental Set-up of closed loop control of temperature sensor
- Lecture 49 - Introduction to MEMS Simulation using Comsol Multiphysics
- Lecture 50 - Introduction to COMSOL Multiphysics
- Lecture 51 - COMSOL Examples for MEMS Applications
- Lecture 52 - COMSOL Examples for MEMS Applications (Continued...)
- Lecture 53 - Demonstration of Thermal Actuator and Understanding of Application Builder