

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

NPTEL Video Course - Electronics and Communication Engineering - Circuits for Analog System Design

Subject Co-ordinator - Prof. M.K. Gunasekaran

Co-ordinating Institute - IISc - Bangalore

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

- Lecture 1 - Transistor Amplifier
- Lecture 2 - Transistor Op-amp and Transistor Based Voltage Regulator
- Lecture 3 - Some applications of transistor - I
- Lecture 4 - Some applications of transistor - II
- Lecture 5 - Transformer design & Heat sink design
- Lecture 6 - Op-amp Based Linear Voltage Regulator
- Lecture 7 - Short circuit protection for linear power supply
- Lecture 8 - Temperature indicator design using Op-amp
- Lecture 9 - On & off Temperature controller design
- Lecture 10 - Proportional Temperature Controller Design
- Lecture 11 - PID - Temperature Controller Design
- Lecture 12 - Heater Drive for Various Temperature Controllers
- Lecture 13 - Short Circuit Protection of Power MOSFET
- Lecture 14 - Error budgeting for temperature Indicator
- Lecture 15 - PID Temperature Controllers with Error Budgeting
- Lecture 16 - Error Budgeting for Constant Current Sources
- Lecture 17 - Error Budgeting for Thermo Couple Amplifier
- Lecture 18 - Error Budgeting for Op amp Circuits
- Lecture 19 - Gain Error Calculation in Op amp Circuits
- Lecture 20 - Input Resistance Calculations for Op amp
- Lecture 21 - Output Resistance Calculations for Op amp
- Lecture 22 - Error Budgeting for Different Circuits
- Lecture 23 - 4-20 mA current Transmitter design
- Lecture 24 - Error budgeting for 4-20mA Current Transmitters
- Lecture 25 - LVDT Based Current Transmitters
- Lecture 26 - Constant Current Source Design
- Lecture 27 - 4-20 MA Based Temperature Transmitter
- Lecture 28 - 3-Wire Current Transmitter
- Lecture 29 - Various Resistance Measurement Techniques

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- Lecture 30 - Ratio Transformer Technique to Measure Resistance and capacitance
- Lecture 31 - Capacitive Sensor Circuit Design Examples
- Lecture 32 - Capacitive Sensor Circuit With High Impedance Amplifier
- Lecture 33 - AC- applications of the Op-Amp and Lock in Amplifier Design
- Lecture 34 - Design of lock in Amplifier Circuit with example
- Lecture 35 - Dual Slopes ADC & Design Examples
- Lecture 36 - Dual Slope ADC and Successor approximation ADC
- Lecture 37 - MC based ADC
- Lecture 38 - Digital to analog Converter design and working, Flash ADC
- Lecture 39 - Flash ADC and ADC Converter errors
- Lecture 40 - Sigma delta ADC working Principle