

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

NPTEL Video Course - Electrical Engineering - NOC: Integrated Circuits and Applications

Subject Co-ordinator - Prof. Shaik Rafi Ahamed

Co-ordinating Institute - IIT - Guwahati

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

- Lecture 1 - Introduction to Integrated Circuits
- Lecture 2 - Summing and Difference Amplifiers
- Lecture 3 - Instrumentation Amplifier
- Lecture 4 - Integrator and Differentiator
- Lecture 5 - Precision Half Wave and Full Wave Rectifiers
- Lecture 6 - Clipper and Clamper circuits
- Lecture 7 - Logarithmic and Anti-logarithmic Amplifiers
- Lecture 8 - DC Characteristics (Offset Currents and Voltages)
- Lecture 9 - AC Characteristics (Frequency Response)
- Lecture 10 - AC Characteristics (Compensation Techniques and Slew Rate)
- Lecture 11 - Examples on Design of Adder and Subtractor Circuits
- Lecture 12 - Examples on Transfer Function Computation
- Lecture 13 - Examples on Instrumentation Amplifier
- Lecture 14 - Examples on CMRR Computation
- Lecture 15 - First Order Low Pass Filter
- Lecture 16 - Second Order Low Pass Filter
- Lecture 17 - Design of Butterworth Low Pass Filter
- Lecture 18 - Design of Butterworth High Pass Filter
- Lecture 19 - Design of Band Pass Filter
- Lecture 20 - Design of Band Stop Filter
- Lecture 21 - All Pass Filter
- Lecture 22 - RC Phase Shift Oscillator
- Lecture 23 - Wien Bridge, Colpitt's and Hartley Oscillators
- Lecture 24 - Comparator and Schmitt Trigger Circuits
- Lecture 25 - Square Wave and Triangular Waveform Generators
- Lecture 26 - Monostable operation
- Lecture 27 - Monostable applications - I
- Lecture 28 - Monostable applications - II
- Lecture 29 - Astable operation

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- Lecture 30 - Phase detectors
- Lecture 31 - Voltage Controlled oscillator
- Lecture 32 - PLL IC 565 operation
- Lecture 33 - PLL Applications
- Lecture 34 - Fixed Voltage Regulator
- Lecture 35 - Adjustable Voltage Regulator
- Lecture 36 - Switching Regulators
- Lecture 37 - Weighted Resistor D/A Converter
- Lecture 38 - R-2R Ladder D/A Converter
- Lecture 39 - Inverted R-2R Ladder D/A Converter
- Lecture 40 - Analog to Digital Converters
- Lecture 41 - CMOS Inverter
- Lecture 42 - CMOS NAND Gate
- Lecture 43 - Transient Response of CMOS NAND and NOR Gates
- Lecture 44 - Boolean function Realization using CMOS and Sizing