

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

NPTEL Video Course - Electrical Engineering - NOC:Analog Electronic Circuit

Subject Co-ordinator - Dr. Shouribrata Chatterjee

Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Introduction to Analog Circuits Introduction to the Diode
- Lecture 2 - Diodes, Introduction to The Transistor
- Lecture 3 - MOS Device, Characteristics
- Lecture 4 - DC operating point
- Lecture 5 - DC operating point, amplifier design
- Lecture 6 - Common source amplifier, small signal analysis
- Lecture 7 - Common gate, common drain
- Lecture 8 - Common gate circuit
- Lecture 9 - Source degenerated amplifier
- Lecture 10 - Swing limits
- Lecture 11 - Swing limits (Continued...), multi transistor amplifiers
- Lecture 12 - Multi-transistor amplifiers
- Lecture 13 - Introduction to current sources
- Lecture 14 - Current sources/mirrors (Continued...)
- Lecture 15 - Current sources, biasing
- Lecture 16 - Differential circuits
- Lecture 17 - Differential amplifiers-I
- Lecture 18 - Differential amplifiers-II
- Lecture 19 - Differential amplifiers-III
- Lecture 20 - Self biased active load diff. amp
- Lecture 21 - Diff. Cascode amplifier, two stage amplifiers
- Lecture 22 - Two stage diff. amps, op-amps
- Lecture 23 - Op-amps, OTAs
- Lecture 24 - Circuits with op-amps
- Lecture 25 - Capacitance in MOS devices
- Lecture 26 - Common source, drain, gate-revisited
- Lecture 27 - Common gate, common drain with capacitances
- Lecture 28 - Cascode, cascade-revisit with capacitance
- Lecture 29 - Cascade amplifier (with capacitance)

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

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- Lecture 30 - Diversion
- Lecture 31 - Diversion Continued
- Lecture 32 - Compensation
- Lecture 33 - Op-amp Design with Compensation
- Lecture 34 - Unity Gain Bandwidth
- Lecture 35 - Power Amplification
- Lecture 36 - Power Amplifiers-2
- Lecture 37 - Power Amplifiers- Class A,B,AB,C ClassD
- Lecture 38 - Class D Amplifiers, Push-pull Amplifiers
- Lecture 39 - Introduction to Voltage Regulators
- Lecture 40 - Voltage Regulators- line, load; Conclusion Regulation