

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

NPTEL Video Course - Electronics and Communication Engineering - Communication Engineering

Subject Co-ordinator - Prof. Surendra Prasad

Co-ordinating Institute - IIT - Delhi

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

Lecture 1 - Introduction to Communication Engineering
Lecture 2 - Communication channel
Lecture 3 - Brief Review of Signal and Systems
Lecture 4 - The Hilbert Transform
Lecture 5 - Analytic Representation of band pass Signals
Lecture 6 - Fundamentals of Analog Signal Transmission
Lecture 7 - Analog Modulation of Carriers
Lecture 8 - Amplitude Modulation
Lecture 9 - Amplitude Modulation
Lecture 10 - Single Sideband Modulation
Lecture 11 - Suppressed Sideband Modulation
Lecture 12 - VSB Modulation - Superhet Receiver
Lecture 13 - Superhet Receiver etc
Lecture 14 - Practical Mixers-Effects of Tonal
Lecture 15 - Angle Modulation
Lecture 16 - Angle Modulation
Lecture 17 - Generation of FM Signals
Lecture 18 - FM Generation and Detection
Lecture 19 - Demodulation of Angle Modulated Signals
Lecture 20 - Demodulation of Angle Modulated Signals
Lecture 21 - Demodulation of Angle Modulated Signals
Lecture 22 - Feedback Demodulators - phase locked loop
Lecture 23 - The Phase Locked Loop
Lecture 24 - Frequency Compressive Feedback Demodulator
Lecture 25 - FM Receivers
Lecture 26 - TV Transmission
Lecture 27 - Review of Probability Theory and Random Process
Lecture 28 - Review of Probability Theory and Random Variables
Lecture 29 - Random Processes

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- Lecture 30 - Random Processes
- Lecture 31 - Random Processes
- Lecture 32 - Gaussian Random Processes
- Lecture 33 - Behaviour of Communication System
- Lecture 34 - Performance of AM Systems in Noise
- Lecture 35 - Noise in AM and Angle Modulation Systems
- Lecture 36 - Noise in Phase and Frequency Modulation systems
- Lecture 37 - Noise in Angle Modulation
- Lecture 38 - Pre emphasis - De emphasis
- Lecture 39 - Pulse Modulation Schemes - PWM and PPM
- Lecture 40 - Data Modulation
- Lecture 41 - Pulse Code Modulation