

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

NPTEL Video Course - Electronics and Communication Engineering - NOC:Optical communications

Subject Co-ordinator - Dr. Pradeep Kumar K

Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Overview of Fiber-optic communications
Lecture 2 - Optical Transmitter - I
Lecture 3 - Optical Transmitter - I (Continued...)
Lecture 4 - Optical Transmitter - II
Lecture 5 - Optical Transmitter - II (Continued...)
Lecture 6 - Intensity modulation
Lecture 7 - Review of Signals and Representations - I
Lecture 8 - Review of Signals and Representations - II
Lecture 9 - Digital Modulation - I
Lecture 10 - Review of Signals and Representations - III
Lecture 11 - Review of Signals and Representations - IV
Lecture 12 - Digital Modulation - II
Lecture 13 - Digital Modulation - II (Continued...)
Lecture 14 - Digital Modulation - III
Lecture 15 - Optical receivers - I
Lecture 16 - Optical receivers - II
Lecture 17 - Optical Modulator
Lecture 18 - Propagation of Electromagnetic wave
Lecture 19 - Review of EM Theory
Lecture 20 - Reflection of Waves
Lecture 21 - Optical fiber - I
Lecture 22 - Optical fiber - II
Lecture 23 - Modes in Optical fiber - I
Lecture 24 - Modes in Optical fiber - I (Continued...)
Lecture 25 - Modes in Optical fiber - II
Lecture 26 - Dispersion in Fibers
Lecture 27 - Dispersion in Fibers (Continued...)
Lecture 28 - Wrapping up fiber parameters
Lecture 29 - System Design - I

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- Lecture 30 - Passive WDM components - I
- Lecture 31 - Passive WDM components - II
- Lecture 32 - Detection of light
- Lecture 33 - Detection of light (Continued...)
- Lecture 34 - Response time and Noise in Detectors
- Lecture 35 - Noise in photodiodes - I Edit Lesson
- Lecture 36 - Noise in photodiodes - II
- Lecture 37 - Light sources - I
- Lecture 38 - Light sources - II Edit Lesson
- Lecture 39 - Semiconductor laser diodes
- Lecture 40 - Optical communication
- Lecture 41 - Power spectral density
- Lecture 42 - Power spectral density (Continued...)
- Lecture 43 - Advantage of coherent receiver
- Lecture 44 - Dispersion induced limitations
- Lecture 45 - Optical amplifiers - I
- Lecture 46 - Optical amplifiers - II
- Lecture 47 - Noise in optical amplifiers
- Lecture 48 - Noise in optical amplifiers (Continued...)
- Lecture 49 - ASE induced limitations
- Lecture 50 - Determining BER in OOK system
- Lecture 51 - BER determination
- Lecture 52 - Eye diagram and Higher modulation techniques Edit Lesson
- Lecture 53 - Higher modulation techniques (Continued...)
- Lecture 54 - Optical OFDM