

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

NPTEL Video Course - Electronics and Communication Engineering - Advanced Optical Communication

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Co-ordinating Institute - IIT - Bombay

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

Lecture 1 - Introduction
Lecture 2 - Basics of Light
Lecture 3 - Ray Model - I
Lecture 4 - Ray Model - II
Lecture 5 - Wave Model - I
Lecture 6 - Wave Model - II
Lecture 7 - Wave Model - III
Lecture 8 - Signal Distortion - I
Lecture 9 - Signal Distortion - II
Lecture 10 - Signal Distortion - III
Lecture 11 - Practical issues in Implementation of Fiber link
Lecture 12 - Optical Sources
Lecture 13 - Light Emitting Diodes - I
Lecture 14 - Light Emitting Diodes - II
Lecture 15 - Laser - I
Lecture 16 - Laser - II
Lecture 17 - Laser - III
Lecture 18 - Laser - IV
Lecture 19 - Laser - V + Photon Detector
Lecture 20 - Photo Diodes and Detector Noise
Lecture 21 - Photo Detector
Lecture 22 - Optical Receivers - I
Lecture 23 - Optical Receivers - II
Lecture 24 - Receiver Sensitivity Degradation
Lecture 25 - Fiber Optic Link Design
Lecture 26 - Wavelength Division Multiplexed Systems
Lecture 27 - EDFA
Lecture 28 - Integrated Optics - I
Lecture 29 - Integrated Optics - II

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- Lecture 30 - Tutorials - I
- Lecture 31 - Tutorials - II
- Lecture 32 - Introduction to Non-Linear Fiber Optics
- Lecture 33 - Non-linear Schrodinger Equation
- Lecture 34 - Group Velocity Dispersion (GVD)
- Lecture 35 - Self Phase Modulation (SPM)
- Lecture 36 - Solitonic Communication
- Lecture 37 - Raman Amplifier
- Lecture 38 - Cross Phase Modulation and four wave mixing
- Lecture 39 - Laboratory Experiments - I
- Lecture 40 - Laboratory Experiments - II
- Lecture 41 - Laboratory Experiments - III