

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

NPTEL Video Course - Physics - NOC:Fiber Optics

Subject Co-ordinator - Prof. Vipul Rastogi

Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Introduction
- Lecture 2 - Need for Optical Communication
- Lecture 3 - Salient Features of Optical Fiber - I
- Lecture 4 - Salient Features of Optical Fiber - II
- Lecture 5 - Optical Fiber Fabrication
- Lecture 6 - Transmission Characteristics - I
- Lecture 7 - Transmission Characteristics - II
- Lecture 8 - Transmission Characteristics - III
- Lecture 9 - Propagation in Infinitely Extended Dielectric
- Lecture 10 - EM Waves in Dielectrics
- Lecture 11 - Electromagnetic Analysis of Waveguides - I
- Lecture 12 - Electromagnetic Analysis of Waveguides - II
- Lecture 13 - Electromagnetic Analysis of Waveguides - III
- Lecture 14 - Electromagnetic Analysis of Waveguides - IV
- Lecture 15 - Electromagnetic Analysis of Waveguides - V
- Lecture 16 - Electromagnetic Analysis of Waveguides - VI
- Lecture 17 - Electromagnetic Analysis of Waveguides - VII
- Lecture 18 - Electromagnetic Analysis of Waveguides - VIII
- Lecture 19 - Optical Fiber Waveguide - I
- Lecture 20 - Optical Fiber Waveguide - II
- Lecture 21 - Optical Fiber Waveguide - III
- Lecture 22 - Optical Fiber Waveguide - IV
- Lecture 23 - Optical Fiber Waveguide - V
- Lecture 24 - Splice Loss
- Lecture 25 - Waveguide Dispersion - I
- Lecture 26 - Waveguide Dispersion - II
- Lecture 27 - Recap
- Lecture 28 - Optical Fiber Components and Devices - I
- Lecture 29 - Optical Fiber Components and Devices - II

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- Lecture 30 - Optical Fiber Components and Devices - III
- Lecture 31 - Optical Fiber Components and Devices - IV
- Lecture 32 - Optical Fiber Components and Devices - V
- Lecture 33 - Optical Sources and Detectors - I
- Lecture 34 - Optical Sources and Detectors - II
- Lecture 35 - Optical Sources and Detectors - III
- Lecture 36 - Optical Sources and Detectors - IV
- Lecture 37 - Optical Sources and Detectors - V
- Lecture 38 - System Design Aspects
- Lecture 39 - Optical Fiber Measurements
- Lecture 40 - Summary and Recent Advances