

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

NPTEL Video Course - Electrical Engineering - NOC:Optical Fiber Sensors

Subject Co-ordinator - Prof. Balaji Srinivasan

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction to optical sensors
Lecture 2 - Different types of optical sensors
Lecture 3 - Overview of distributed sensors
Lecture 4 - Optical sensors system
Lecture 5 - Optical sources
Lecture 6 - Optical receivers - 1
Lecture 7 - Optical receivers - 2
Lecture 8 - Optical receivers - 3
Lecture 9 - Optical receiver design
Lecture 10 - Noise Analysis
Lecture 11 - Sensor Performance characteristics
Lecture 12 - Noise Mitigation Techniques
Lecture 13 - Lock in detection
Lecture 14 - Amplitude modulated sensors - 1
Lecture 15 - Gas absorption spectroscopy
Lecture 16 - Amplitude modulated sensors - 2
Lecture 17 - Amplitude modulated sensors - 3
Lecture 18 - Amplitude modulated sensors - 4
Lecture 19 - Problem Discussion
Lecture 20 - Pulse-oximeter
Lecture 21 - Phase modulated sensors - 1
Lecture 22 - Phase modulated sensors - 2
Lecture 23 - Phase modulated Sensors - 3
Lecture 24 - Phase modulated sensors - 4
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