

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

NPTEL Video Course - Electrical Engineering - NOC:Advance Power Electronics and Control

Subject Co-ordinator - Prof. Avik Bhattacharya

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Introduction
Lecture 2 - Basic Concept of Switches
Lecture 3 - Device Physics - I
Lecture 4 - Device Physics - II
Lecture 5 - Device Physics - III
Lecture 6 - Device Physics - IV
Lecture 7 - Application and Analysis of Switches - I
Lecture 8 - Application and Analysis of Switches - II
Lecture 9 - Single Phase Converter
Lecture 10 - Single Phase Converters - II
Lecture 11 - Single Phase Converters - III
Lecture 12 - Three Phase Converters - I
Lecture 13 - Three Phase Converters - II
Lecture 14 - Multipulse Converters II
Lecture 15 - Effect of Source Inductance and PWM Rectifiers
Lecture 16 - PWM Rectifiers - II
Lecture 17 - PWM Rectifiers - III and Power Factor Improvement Techniques
Lecture 18 - PWM Rectifiers - IV and Power Factor Improvement Techniques - II
Lecture 19 - Power Factor Improvement Techniques III and Non Isolated DC- DC Converters
Lecture 20 - Non Isolated DC- DC Converters - II
Lecture 21 - Non Isolated and Isolated DC- DC Converters and Choppers
Lecture 22 - Isolated DC-DC Converters and Choppers
Lecture 23 - Isolated DC-DC Converters - II
Lecture 24 - Isolated DC-DC Converters - III
Lecture 25 - Isolated DC-DC Converters - IV and VSI and CSI
Lecture 26 - VSI and CSI
Lecture 27 - VSI and CSI II and MLI
Lecture 28 - PWM Techniques II and MLI
Lecture 29 - MLI II and ZSI

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- Lecture 30 - ZSI II and Space Vector Modulation (SVM)
- Lecture 31 - SVM II and AC to AC Converters
- Lecture 32 - SVM III and AC to AC Converters
- Lecture 33 - Cycloconverters and Matrix Converters
- Lecture 34 - Matrix Converter - II
- Lecture 35 - Matrix Converter - III and Power Quality Mitigation Devices
- Lecture 36 - Power Quality Mitigation Devices - II
- Lecture 37 - Linear and Non Linear Control in Power Electronics - I
- Lecture 38 - Linear and Non Linear Control in Power Electronics - II
- Lecture 39 - Non-Linear Control in Power Electronics
- Lecture 40 - Application and Conclusion