NPTEL Video Course - Electrical Engineering - NOC:Power Electronics with Wide Band Gap Devices

Subject Co-ordinator - Prof. Moumita Das

Co-ordinating Institute - IIT - Mandi

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

Lecture 1 - Introduction Wide Bandgap Devices
Lecture 2 - Characterization Of Wide Bandgap Devices
Lecture 3 - Static Characterization Of Power Devices
Lecture 4 - Junction Capacitance Characterization Of Power Devices
Lecture 5 - Fundamentals Of Dynamic Characterization
Lecture 6 - Fundamentals Of Dynamic Characterization (Continued...)
Lecture 7 - Gate Drive For Dynamic Characterization
Lecture 8 - Gate Drive For Dynamic Characterization (Continued...)
Lecture 9 - Gate Drive For Dynamic Characterization (Continued...)
Lecture 10 - Gate Driver Protection
Lecture 11 - Dpt-Protection
Lecture 12 - Protection-Dpt
Lecture 13 - Cross Talk Consideration
Lecture 14 - Cross Talk Consideration (Continued...)
Lecture 15 - Layout Design And Parasitic Management
Lecture 16 - Layout Design And Parasitic Management (Continued...)
Lecture 17 - Layout
Lecture 18 - Heat Sink
Lecture 19 - Heat Sink (Continued...)
Lecture 20 - Electromagnetic Interference (EMI) - Part 1
Lecture 21 - Electromagnetic Interference (EMI) - Part 2
Lecture 22 - Electromagnetic Interference (EMI) - Part 3
Lecture 23 - Electromagnetic Interference (EMI) - Passive Filter
Lecture 24 - Electromagnetic Interference (EMI) - Active Filter
Lecture 25 - Getting Started With Ltspice
Lecture 26 - Getting Started With Ltspice - Part 1
Lecture 27 - Getting Started With Ltspice - Part 2
Lecture 28 - EMI Simulation with LTspice - Part 1
Lecture 29 - EMI Simulation with LTspice - Part 2

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Lecture 30 - Power Density - Part 1
Lecture 31 - Power Density - Part 2
Lecture 32 - Introduction to PCB Design
Lecture 33 - PCB Design
Lecture 34 - WBG Applications - IMD
Lecture 35 - WBG Applications - Renewable Energy Sources
Lecture 36 - WBG Applications - Reliability Analysis

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