NPTEL Video Course - Electrical Engineering - NOC:Electrical Distribution System Analysis

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Co-ordinating Institute - IIT - Roorkee

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

Lecture 30 - Direct Approach Based Load Flow Analysis - Part II
Lecture 31 - Direct Approach Based Load Flow Analysis - Part III
Lecture 32 - Direct Approach Based Load Flow Analysis: Weakly Meshed System
Lecture 33 - Gauss Implicit Z-matrix Method
Lecture 34 - Sequence Component Based Short Circuit Analysis
Lecture 35 - Thevenin's Equivalent and Phase Variable Based Short Circuit Analysis
Lecture 36 - Direct Approach for Short-Circuit Analysis: Introduction and LG Fault
Lecture 37 - Direct Approach for Short-Circuit Analysis: LLG and LLLG Fault
Lecture 38 - Direct Approach for Short-Circuit Analysis: LL Fault and Examples
Lecture 39 - Direct Approach for Short-Circuit Analysis: Weakly Meshed System
Lecture 40 - Applications of Distribution System Analysis
Lecture 41 - Distributed Generation Integration Issues in Distribution System
Lecture 42 - Distribution System Protection Issues
Lecture 43 - Power Quality, Reliability and Availability
Lecture 44 - Design and Operation - Part I
Lecture 45 - Design and Operation - Part II
Lecture 46 - Definition and objective of Volt-var control (VVC)
Lecture 47 - Traditional approaches of VVC
Lecture 48 - Distribution Automation
Lecture 49 - SCADA-Based VVC and Integrated VVC
Lecture 50 - Advanced technologies for VVC - Part I
Lecture 51 - Advanced technologies for VVC - Part II
Lecture 52 - System Planning - Part I
Lecture 53 - System Planning - Part II
Lecture 54 - Electricity Forecasting
Lecture 55 - Case study: IIT Roorkee distribution system
Lecture 56 - Optimization techniques
Lecture 57 - Optimal location and sizing battery energy storage system (BESS)
Lecture 58 - Practical Insights into Electrical Distribution Systems
Lecture 59 - Field Deployment of BESS
Lecture 60 - Emerging Technologies and Future Trends