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

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NPTEL Video Course - Electronics and Communication Engineering - NOC: Operation and Planning of Power Distribu
Subject Co-ordinator - Prof. Sanjib Ganguly
Co-ordinating Institute - IIT - Guwahati
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Power systems: Overview and historical developments
Lecture 2 - Introduction to power delivery systems
Lecture 3 - Introduction to electrical loads
Lecture 4 - Load diversity
Lecture 5 - Different load indices
Lecture 6 - Loss factor
Lecture 7 - Load management
Lecture 8 - Brief overview of power distribution substation
Lecture 9 - Substation bus schemes and primary distribution network topology
Lecture 10 - Voltage drop and power loss computations for typical radial distribution feeders
Lecture 11 - Genaralized expression for voltage drop for radial distribution feeder
Lecture 12 - Derivation of K-constant for voltage drop computation
Lecture 13 - Different reliability indices used in distribution networks
Lecture 14 - Different reliability indices with numerical examples
Lecture 15 - Mathematical concept of reliability
Lecture 16 - Reliability evaluation of multiple units connected to series and/or parallel
Lecture 17 - Numerical problems on reliability evaluation
Lecture 18 - Power quality problems in distribution systems
Lecture 19 - Forward backward load flow approach for power distribution systems
Lecture 20 - Forward backward load flow approach for power distribution systems
Lecture 21 - Reactive power compensation: Basic idea
Lecture 22 - Reactive power compensation: Numerical examples
Lecture 23 - Capacitor placement at distribution feeder: Analytical approach
Lecture 24 - Power distribution system planning: Economic aspects
Lecture 25 - Power distribution system planning: Different models and solution strategies
Lecture 26 - Mono-objective power distribution system planning approach
Lecture 27 - Multi-objective power distribution system planning approach
Lecture 28 - Multi-objective planning incorporating sectionalizing switches and tie-lines
Lecture 29 - Reconfiguration of power distribution networks
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- Lecture 30 Distribution networks with the integration of Distributed Generation
- Lecture 31 Concept of microgrids
- Lecture 32 Wind and solar energy conversion systems
- Lecture 33 Energy storage systems
- Lecture 34 Distribution system automation and smart grid Part I
- Lecture 35 Distribution system automation and smart grid Part II
