

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

NPTEL Video Course - Electrical Engineering - NOC:Power System Protection

Subject Co-ordinator - Prof. Ashok Kumar Pradhan

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - Faults in Power System
- Lecture 2 - Elements and Features of Protection Scheme
- Lecture 3 - Fault Analysis Review - Sequence Components
- Lecture 4 - Fault Analysis Review - Sequence Components (Continued...)
- Lecture 5 - Numerical Relaying Concept
- Lecture 6 - Discrete Fourier Transform
- Lecture 7 - Recursive and Half Cycle DFT and Cosine Filter
- Lecture 8 - Least Square Technique
- Lecture 9 - Frequency Response of Phasor Estimation techniques
- Lecture 10 - In the Presence of Decaying DC
- Lecture 11 - Overcurrent Relay Characteristics
- Lecture 12 - Overcurrent Relay Coordination
- Lecture 13 - Relay Coordination with Fuse
- Lecture 14 - Introduction to Directional Relaying
- Lecture 15 - Positive Sequence Directional Relay
- Lecture 16 - Negative and Zero Sequence Directional Relay
- Lecture 17 - Superimposed Component Based Directional Relaying
- Lecture 18 - Introduction to Distance Relay
- Lecture 19 - Fault Classification
- Lecture 20 - Apparent Impedance Calculation
- Lecture 21 - Distance Relay Implementation
- Lecture 22 - Application to Double Circuit Line
- Lecture 23 - Multi-terminal Lines
- Lecture 24 - Protection of series compensated lines - Part I
- Lecture 25 - Protection of series compensated lines - Part II
- Lecture 26 - Effect of Fault Resistance
- Lecture 27 - Load Encroachment
- Lecture 28 - Power Swing
- Lecture 29 - Power Swing Detection Techniques - Part I

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- Lecture 30 - Power Swing Detection Techniques - Part II
- Lecture 31 - Adaptive Distance Relaying
- Lecture 32 - Communication Assisted Relaying Scheme
- Lecture 33 - Current Transformer - Part I
- Lecture 34 - Current Transformer - Part II
- Lecture 35 - Capacitor Voltage Transformer
- Lecture 36 - Fiber Optic Sensors
- Lecture 37 - Introduction to Transformer Protection
- Lecture 38 - Differential Relay
- Lecture 39 - Steps in Differential Relay Processing
- Lecture 40 - Inrush Detection
- Lecture 41 - CT Saturation, Negative Sequence Differential and Restricted Earth Fault Relay
- Lecture 42 - Line Differential - Part I
- Lecture 43 - Line Differential - Part II
- Lecture 44 - Busbar Protection
- Lecture 45 - Fault Characteristics of Renewable Sources
- Lecture 46 - Protection Challenges of Distribution Systems with Renewables
- Lecture 47 - Protection challenges of transmission systems with renewables
- Lecture 48 - Traveling Wave Basics
- Lecture 49 - Protection using Travelling Waves
- Lecture 50 - Fault Location using Travelling Wave
- Lecture 51 - Wide Area Measurement Basics
- Lecture 52 - Wide Area Measurement for Protection