

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

NPTEL Video Course - Electrical Engineering - NOC:Electrical Machines

Subject Co-ordinator - Prof. G.Bhuvaneshwari

Co-ordinating Institute - IIT - Delhi

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

Lecture 1 - Introduction to Electrical Machines - I
Lecture 2 - Single-phase and Three-phase AC Circuits, Magnetic circuits
Lecture 3 - Magnetic Circuit - II
Lecture 4 - Magnetic Circuit - III
Lecture 5 - Transformers - Introduction
Lecture 6 - Transformers - Amp-Turn Balance, Ideal and practical transformers
Lecture 7 - Transformer Equivalent circuit and Reducing leakage
Lecture 8 - Transformer equivalent circuit parameter determination
Lecture 9 - Transformers - Voltage regulation and efficiency
Lecture 10 - Auto-transformers
Lecture 11 - PU notation and Introduction to Instrument transformers
Lecture 12 - Instrument Transformers and All Day Efficiency
Lecture 13 - Three Phase Transformers - I
Lecture 14 - Three Phase Transformers - II
Lecture 15 - Electromechanical Energy Conversion - I
Lecture 16 - Electromechanical Energy Conversion - II
Lecture 17 - Electromechanical Energy Conversion - III
Lecture 18 - DC Machines-Introduction, Constructional Features
Lecture 19 - DC Machines - EMF and Torque Equations and Generator Operation
Lecture 20 - DC Machines - OCC and Load Characteristics Classification
Lecture 21 - DC Machines - Armature Reaction
Lecture 22 - DC Machines - Voltage Build-up and Load Characteristics
Lecture 23 - DC Generator Characteristics and Introduction to DC Motors
Lecture 24 - DC Motors
Lecture 25 - DC Motor
Lecture 26 - DC Motor
Lecture 27 - DC Machine
Lecture 28 - DC Machine
Lecture 29 - 3 Phase Induction Machine

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- Lecture 30 - 3 Phase Induction Machine
- Lecture 31 - 3 Phase Induction Machine
- Lecture 32 - Testing of Induction Motor
- Lecture 33 - 3 Phase Induction Machine
- Lecture 34 - Synchronous Machines
- Lecture 35 - Synchronous Machines
- Lecture 36 - Numerical Session
- Lecture 37 - Synchronization of Alternators
- Lecture 38 - Synchronous Machines
- Lecture 39 - Synchronous Machines
- Lecture 40 - Synchronous Machines
- Lecture 41 - Single Phase Induction Motors