

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

NPTEL Video Course - Electrical Engineering - Special Electromechanical Systems

Subject Co-ordinator - Prof. S.S. Murthy

Co-ordinating Institute - IIT - Delhi

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

Lecture 1 - Special Electromechanical Systems (Introduction)  
Lecture 2 - Classification of Machines  
Lecture 3 - Single and Two-Phase Motors  
Lecture 4 - Single-Phase Induction Motors-Analysis  
Lecture 5 - Starting of Single-Phase Induction Motors  
Lecture 6 - Single-Phase Induction Motors Analysis  
Lecture 7 - Induction Motors Analysis by Symmetrical Components  
Lecture 8 - Modelling of 1-Phase Induction Motor (One and Two Windings)  
Lecture 9 - Asymmetrical Induction Motor Generalized Rotating Field Theory  
Lecture 10 - Generalized Rotating Field Theory (Continued...)  
Lecture 11 - Generalized Rotating Field Theory (Continued...)  
Lecture 12 - Generalized Rotating Field Theory (Continued...)  
Lecture 13 - Analysis of Asymmetrical Machine by Generalized Rotating Field Theory  
Lecture 14 - Analysis of Asymmetrical Machine  
Lecture 15 - Analysis of Asymmetrical Induction Machine  
Lecture 16 - Generalised Rotating-Field Theory of Wound Rotor Ind. Machine Having Asymmetry in Stator and Rotor  
Lecture 17 - Generalised Rotating-Field Theory of Wound Rotor Ind. Machine Having Asymmetry in Stator and Rotor  
Lecture 18 - Testing of Small Electrical Machines  
Lecture 19 - Testing of 1-Phase Induction Motors  
Lecture 20 - Variable Reluctance (VR) Motors  
Lecture 21 - Switched Reluctance Motor (Continued...)  
Lecture 22 - Switched Reluctance Motor (Continued...)  
Lecture 23 - Switched Reluctance Motor (Continued...)  
Lecture 24 - Stepper Motors  
Lecture 25 - Stepper Motors (Continued...)  
Lecture 26 - Induction Generators  
Lecture 27 - Induction Generators (Continued...)  
Lecture 28 - Doubly Fed Induction Generators  
Lecture 29 - Self Excited Induction Generators

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

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- Lecture 30 - Self Excited Induction Generators (Continued...)
- Lecture 31 - Permanent Magnet Machines
- Lecture 32 - Squarewave Permanent Magnet Brushless Motor Drive
- Lecture 33 - Sine Wave Permanent Magnet Brushless Motor Drives
- Lecture 34 - Permanent Magnet Synchronous Motors