

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

NPTEL Video Course - Electrical Engineering - Electromagnetic Fields

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Co-ordinating Institute - IIT - Madras

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

- Lecture 1 - Introduction To Vector
- Lecture 2 - Introduction To Vector (Continued...)
- Lecture 3 - Coulomb's Law
- Lecture 4 - Electric Field
- Lecture 5 - Electro Static Potential
- Lecture 6 - The Gradient
- Lecture 7 - Gauss's Law
- Lecture 8 - Poisson's Equation
- Lecture 9 - Energy In The Field
- Lecture 10 - Sample Problems In Electrostatics
- Lecture 11 - Fields In Materials
- Lecture 12 - Fields In Material Bodies
- Lecture 13 - Displacement Vectors
- Lecture 14 - Capacitors
- Lecture 15 - Method Of Images
- Lecture 16 - Poisson's Equation 2 Dimensions
- Lecture 17 - Field Near Sharp Edges And Points
- Lecture 18 - Magnetic Field 1
- Lecture 19 - Magnetic Field 2
- Lecture 20 - Stokes Theorems
- Lecture 21 - The curl
- Lecture 22 - Field due to current loop
- Lecture 23 - Ampere's law
- Lecture 24 - Examples of Ampere's law
- Lecture 25 - Inductance
- Lecture 26 - Mutual Inductance
- Lecture 27 - Faraday's law
- Lecture 28 - Magnetic Energy
- Lecture 29 - Magnetic Energy (Continued...)

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- Lecture 30 - Magnetic Energy (Continued...)
- Lecture 31 - Generalised Ampere's Law
- Lecture 32 - The Wave Equation
- Lecture 33 - The Wave Equation
- Lecture 34 - Poynting Theorem
- Lecture 35 - Skin Effect
- Lecture 36 - Skin Effect (Continued...)
- Lecture 37 - Radiation And Circuits
- Lecture 38 - Phasor Form Of Poynting Theorem
- Lecture 39 - Reflection At Dielectric Boundaries
- Lecture 40 - Reflection At Dielectric Boundaries (Continued...)
- Lecture 41 - Transmission Lines
- Lecture 42 - Transmission Lines (Continued...) and Conclusion