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

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NPTEL Video Course - Electrical Engineering - NOC: Analysis and Design Principles of Microwave Antennas
Subject Co-ordinator - Dr. Amitabha Bhattacharya
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable
Lecture 1 - Concept of Scalar and Vector Potentials
Lecture 2 - Radiation From a Current Element (Hertzian Dipole)
Lecture 3 - Specific Properties of the Radiated Fields from a Current Element
Lecture 4 - General Properties of Radiated Fields from an Antenna
Lecture 5 - Farfield and Radiation Pattern of an Antenna
Lecture 6 - Directivity and Gain of an Antenna
Lecture 7 - Idea of Efficiency, Beamwidth, Polarisation and Bandwidth
Lecture 8 - Polarization of Antenna
Lecture 9 - Impedance of Antenna
Lecture 10 - Effective Aperture of an Antenna
Lecture 11 - Friss Transmission Equation and Antenna Temperature
Lecture 12 - Dipole And Monopole Antena
Lecture 13 - Dipole And Monopole Antena (Continued...)
Lecture 14 - BALUN
Lecture 15 - Loop Antenna
Lecture 16 - Folded Dipole Antenna
Lecture 17 - Introduction to Antenna Array
Lecture 18 - Antenna Array Theory
Lecture 19 - Broadside Uniform Linear Array
Lecture 20 - Endfire Linear Uniform Array
Lecture 21 - Parasitic Array and Log Periodic Antenna
Lecture 22 - Analysis Procedures of Aperture Antennas
Lecture 23 - Analysis Procedures of Aperture Antenna (Continued...)
Lecture 24 - Horn Antenna
Lecture 25 - Horn Antenna (Continued...)
Lecture 26 - Reflector Antennas
Lecture 27 - Paraboloid Reflector Antenna (Continued...)
Lecture 28 - Paraboloid Reflector Antenna (Continued...)
Lecture 29 - Dual Reflector Antenna
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Lecture 30 - Generalised Analysis of Antenna
Lecture 31 - Solution of Wave Equation for Electric and Magnetic Current Densities
Lecture 32 - Farfield Evaluation of Spherical Wave Radiation by Generalised Antenna
Lecture 33 - Slot Antenna
Lecture 34 - Open Ended Waveguide Antenna and Microstrip Antenna
Lecture 35 - Numerical Evaluation of Wire Antenna Currents
Lecture 36 - Solution of Intregral Equation by Moment Method
Lecture 37 - Array Pattern Synthesis
Lecture 38 - Array Pattern Synthesis (Continued...)
Lecture 39 - Ultra Wideband Antennas
Lecture 40 - Antenna Measurements

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