

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

NPTEL Video Course - Electronics and Communication Engineering - NOC: Microwave Integrated Circuits

Subject Co-ordinator - Prof. Jayanta Mukherjee

Co-ordinating Institute - IIT - Bombay

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

- Lecture 1 - Introduction
- Lecture 2 - Reflection Coefficient, VSWR, Smith Chart
- Lecture 3 - Reflection Coefficient, VSWR
- Lecture 4 - Smith Chart
- Lecture 5 - Application of the Smith Chart
- Lecture 6 - Microwave Components
- Lecture 7 - Broadband Impedance Matching
- Lecture 8 - Multi-section transformer
- Lecture 9 - Maximally flat (binomial) transformer, Chebyshev transformer
- Lecture 10 - Non-uniform transmission line (Tapers)
- Lecture 11 - Scattering Parameters
- Lecture 12 - Properties of Scattering Parameters
- Lecture 13 - Properties of Scattering Parameters (Continued...)
- Lecture 14 - Signal flow graph, ABCD parameters
- Lecture 15 - 1 and 2 Port passive Components
- Lecture 16 - 3 Port Microwave Components
- Lecture 17 - Couplers
- Lecture 18 - Coupled Line Couplers
- Lecture 19 - Resonators and narrow band filters
- Lecture 20 - Narrow-band filters
- Lecture 21 - Filter design
- Lecture 22 - Filter synthesis, Kuroda's Identity
- Lecture 23 - Impedance Matching Circuits for Amplifiers
- Lecture 24 - Microstrip Matching (Continued...), Masons Rule, Power Gain Equations
- Lecture 25 - Amplifier Gain Stability
- Lecture 26 - Amplifier Gain Stability (Continued...)
- Lecture 27 - Gain Circles
- Lecture 28 - Gain Circles (Continued...)
- Lecture 29 - Noise

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- Lecture 30 - Noise Figure Circles (Continued...)
- Lecture 31 - DC Bias
- Lecture 32 - Amplifier Classes, Frequency Compensation
- Lecture 33 - Linearity
- Lecture 34 - Oscillator Design