

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

NPTEL Video Course - Electrical Engineering - NOC:Probability and Random Processes

Subject Co-ordinator - Prof. Ribhu, Prof. Rohit Sinha

Co-ordinating Institute - IIT - Guwahati

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

Lecture 1 - Introduction
Lecture 2 - Algebra of Events
Lecture 3 - Axioms of Probability
Lecture 4 - Example 1
Lecture 5 - Example 2
Lecture 6 - Example 3
Lecture 7 - Example 4
Lecture 8 - Example 5
Lecture 9 - Conditional Probability
Lecture 10 - Bayes Theorem 1
Lecture 11 - Bayes Theorem 2
Lecture 12 - A Brief Review
Lecture 13 - Example 1
Lecture 14 - Example 2
Lecture 15 - Example 3
Lecture 16 - Example 4
Lecture 17 - Example 5
Lecture 18 - Independent Events
Lecture 19 - A Brief Review
Lecture 20 - Example 1
Lecture 21 - Example 2
Lecture 22 - Example 3
Lecture 23 - Example 4
Lecture 24 - Discrete Random Variables
Lecture 25 - Expectation
Lecture 26 - Moments
Lecture 27 - Variance
Lecture 28 - Binomial Random Variables
Lecture 29 - Poisson Random Variables

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- Lecture 30 - More on Poission Random Variables
- Lecture 31 - Properties of the CDF
- Lecture 32 - A Brief Review - I
- Lecture 33 - A Brief Review - II
- Lecture 34 - Example 1
- Lecture 35 - Example 2
- Lecture 36 - Example 3
- Lecture 37 - Example 4
- Lecture 38 - Example 5
- Lecture 39 - Example 6
- Lecture 40 - Example 7
- Lecture 41 - Example 8
- Lecture 42 - Example 9
- Lecture 43 - Continuous Random Variables
- Lecture 44 - Expectation of Continuous random variables
- Lecture 45 - The uniform and the Gaussian Random variables
- Lecture 46 - The mean and variance of a Gaussian Random Variable
- Lecture 47 - The exponential random variable and other continuous distributions
- Lecture 48 - A Brief Review
- Lecture 49 - Example 1
- Lecture 50 - Example 2
- Lecture 51 - Example 3
- Lecture 52 - Example 4
- Lecture 53 - Example 5
- Lecture 54 - Functions of a random variable
- Lecture 55 - Functions of a random variable
- Lecture 56 - The moment generating function
- Lecture 57 - Conditional Distributions
- Lecture 58 - Bivariate Distributions
- Lecture 59 - Independence of Random Variables
- Lecture 60 - Jointly Gaussian Random Variables and Circular symmetry
- Lecture 61 - Jointly Discrete Random Variables
- Lecture 62 - One Function of two random variables
- Lecture 63 - Order Statistics
- Lecture 64 - Two functions of two random variables
- Lecture 65 - Joint Moments
- Lecture 66 - Joint Characteristic Functions
- Lecture 67 - Conditional Distributions for multiple random variables
- Lecture 68 - Conditional Expectations

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- Lecture 69 - Examples
- Lecture 70 - Random Vectors
- Lecture 71 - Independence of Random Variables
- Lecture 72 - Complex Random Variables
- Lecture 73 - Covariance Matrices
- Lecture 74 - Conditional Densities
- Lecture 75 - Gaussianity
- Lecture 76 - Chi Squared Densities
- Lecture 77 - Examples
- Lecture 78 - Estimation Theory
- Lecture 79 - Measurements
- Lecture 80 - Sequences of Random Variables
- Lecture 81 - Laws of large numbers
- Lecture 82 - Random processes
- Lecture 83 - Stationarity, Cyclostationarity, Ergodicity
- Lecture 84 - Random Processes as Signals (PSD and LTI Response)
- Lecture 85 - White and Gaussian Processes Noise