

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

NPTEL Video Course - Electrical Engineering - Probability Foundation for Electrical Engineers

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Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction

Lecture 2 - Cardinality and Countability - 1

Lecture 3 - Cardinality and Countability - 2

Lecture 4 - Probability Spaces - 1

Lecture 5 - Probability Spaces - 2

Lecture 6 - Properties of Probability Measures

Lecture 7 - Discrete Probability Spaces

Lecture 8 - Generated σ -Algebra, Borel Sets

Lecture 9 - Borel Sets and Lebesgue Measure - 1

Lecture 10 - Borel Sets and Lebesgue Measure - 2

Lecture 11 - The Infinite Coin Toss Model

Lecture 12 - Conditional Probability and Independence

Lecture 13 - Independence (Continued...)

Lecture 14 - The Borel-Cantelli Lemmas

Lecture 15 - Random Variables

Lecture 16 - Cumulative Distribution Function

Lecture 17 - Types of Random Variables

Lecture 18 - Continuous Random Variables

Lecture 19 - Continuous Random Variables (Continued...) And Singular Random Variables

Lecture 20 - Several Random Variables

Lecture 21 - Independent Random Variables - 1

Lecture 22 - Independent Random Variables - 2

Lecture 23 - Jointly Continuous Random Variables

Lecture 24 - Transformation of Random Variables - 1

Lecture 25 - Transformation of Random Variables - 2

Lecture 26 - Transformation of Random Variables - 3

Lecture 27 - Transformation of Random Variables - 4

Lecture 28 - Integration And Expectation - 1

Lecture 29 - Integration And Expectation - 2

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- Lecture 30 - Properties of Integrals
- Lecture 31 - Monotone Convergence Theorem
- Lecture 32 - Expectation of Discrete Random Variables, Expectation Over Different Spaces
- Lecture 33 - Expectation of Discrete Random Variables
- Lecture 34 - Fatou's Lemma and Dominated Convergence Theorem
- Lecture 35 - Variance and Covariance
- Lecture 36 - Covariance, Correlation Coefficient
- Lecture 37 - Conditional Expectation
- Lecture 38 - MMSE Estimator, Transforms
- Lecture 39 - Moment Generating Function
- Lecture 40 - Characteristic Function - 1
- Lecture 41 - Characteristic Function - 2
- Lecture 42 - Concentration Inequalities
- Lecture 43 - Convergence of Random Variables - 1
- Lecture 44 - Convergence of Random Variables - 2
- Lecture 45 - Convergence of Random Variables - 3
- Lecture 46 - Convergence of Characteristic Functions, Limit Theorems
- Lecture 47 - The Laws of Large Numbers
- Lecture 48 - The Central Limit Theorem
- Lecture 49 - A Brief Overview of Multivariate Gaussians