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Chapter 3 Discrete Random Variable And Probability

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Understanding Random Variables

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Example Calculating a Cumulative Distribution Function (CDF) TI Calculator - Discrete Random Variable - Probability Distribution

*FRM:
Terms about distributions: PDF,
PMF and CDF The Mean (expected
value) of a Discrete Probability*

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~~Distribution Mean $E(X)$ and
Variance $\text{Var}(X)$ for Continuous
Random Variables Finding The
Probability of a Binomial
Distribution Plus Mean μ
Standard Deviation~~

7. Discrete Random Variables III
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~~Independent Random Variables~~

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Discrete Random Variables 2)

Cumulative Distribution Function

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~~Brief Intro Probability Distribution
and Function 20 CDF for Discrete
Random Variables~~ **Chapter 3**

Discrete Random Variable

A discrete random variable is a variable which can only take-on a countable number of values (finite or countably infinite) Example

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(Discrete Random Variable)

Flipping a coin twice, the random variable Number of Heads ...

Chapter 3 Discrete Random Variables and Probability Distributions ...

Chapter 3 Discrete Random

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Discrete Random Variable

Variables and Probability ...

3 Discrete Random Variable -

Expected Value Definition (Mean of a Discrete Random Variable)

The mean or expected value of a discrete random variable X ,

denoted as μ or $E(X)$, is $\mu = E(X)$

$= \sum x x f(x) = \sum x x P (X = x)$ Example

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Discrete Random Variable

(Mean of a Discrete Random Variable) Consider the random variable X and associated probability mass function defined by $P(X = 0) = 0.20$, $P(X = 1) = 0.30$, and $P(X = 2) =$ The expected value of X or $E(X)$ by the definition above is $E(X) = 0 P(X =$

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$0) + 1 P (X = 1) + 2 P (X \dots$

Chapter 3 Discrete Random Variables and Probability ...

Chapter 3: Discrete Random
Variable. Chapter 3: Discrete
Random Variable. Shiwen Shen.
University of South Carolina. 2017

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Discrete Random Variable

Summer. 1/63. Random Variable.

Definition: A random variable is a function from a sample space S into the real numbers. We usually denote random variables with uppercase letters, e.g. $X, Y \dots$

Chapter 3: Discrete Random

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Discrete Random Variable

Variable Probability

Chapter 3. Discrete Random Variables. Review • Discrete random variable: A random variable that can only take finitely many or countably many possible values. • Distribution: Let $\{x_1, x_2, \dots\}$ be the possible values

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Discrete Random Variable

of X . Let $P(X = x_i) = p_i$, where $p_i \geq 0$ and $\sum p_i = 1$.

Chapter 3. Discrete Random Variables

Definition 3.2 Discrete Random Variable X is a discrete random variable if the range of X is a

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countable set $\{X_1, X_2, \dots$. Quiz 3.1 A student takes two courses. In each course, the student will earn either a B or a C. To calculate a grade point average (GPA), a B is worth 3 points and a C is worth 2 points.

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Discrete Random Variable

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Discrete random variables

Definition A random variable that can only assume distinct values is said to be discrete. Usually these represent a count. A Bernoulli experiment provides a 0/1

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response Bernoulli Binomial A binomial rv gives the number of successes in n . independent, identical trials. Possible values are 0, 1 Geometric

Chapter 3 - Discrete Random Variables and Probability ...

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Discrete Random Variable

• Discrete random variable: A random variable that can only take finitely many or countably many possible values. •

Distribution: Let $\{x_1, x_2, \dots\}$ be the possible values of X . Let $P(X = x_i) = p_i$, where $p_i \geq 0$ and $\sum p_i = 1$.

• Tabular form: $x_i \quad x_1 \quad x_2 \quad \dots \quad p(x_i)$

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**Chapter 3. Discrete Random
Variables - Applied
Mathematics**

The random variable X is the sum, i.e., $X((i, j)) = i + j$. Note that the set S (the range of X) can be

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And Probability
chosen to be $\{2, \dots, 12\}$. Suppose now that all our probabilistic interest is in the value of X , rather than the outcome of 64 Chapter 3 the individual dice (this would be the case if we played snakes and ladders).

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**Chapter 3 Random Variables
(Discrete Case)**

Chapter 3 Discrete Random
Variables & Probability

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Ilundell. Key Concepts: Terms in

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this set (17) discrete random variables. A rv whose possible values either constitute a finite set or else can be listed in an infinite sequence in which there is a ...

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chapter 3: discrete random variables and probability distributions 2 on which $X(\omega)$ is defined could be just about anything.

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Chapter 3. Discrete Random Variables and Their Probability Distributions. 2.11 De nition of random variable 3.1 De nition of a discrete random variable 3.2 Probability distribution of a discrete ran- dom variable 3.3

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Expected value of a random variable or a function of a random variable 3.4-3.8 Well-known discrete probability distributions. Discrete uniform probability distribution Bernoulli probability distribution Binomial probability distribution Geometric probability

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Chapter 3. Discrete Random Variables and Their Probability ...

3.1 Discrete random variables. A discrete random variable is a random variable that takes

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integer values 5. A discrete random variable is characterized by its probability mass function (pmf). The pmf (p) of a random variable (X) is given by $[p(x) = P(X = x)]$. The pmf may be given in table form or as an equation. Knowing the probability mass

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function determines the discrete random variable ...

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74 Chapter 3. Continuous

Random Variables (LECTURE

NOTES 5) 1. Number of visits, X is

a (i) discrete (ii) continuous

random variable, and duration of

visit, Y is a (i) discrete (ii)

continuous random variable. 2.

Discrete (a) $P(X=2) =$ (i) 0 (ii)

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0:25 (iii) 0:50 (iv) 0:75 (b) $P(X \leq 1) = P(X = 1) = F(1) = 0:25 + 0:50 = 0:75$

Chapter 3 Continuous Random Variables

Chapter 3: Discrete Random Variables
3.1 The Notion of a

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Random Variable 3.1 © 2008

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Saddle River, NJ.

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Chapter 3 Discrete Random

Variables “When you flip a coin,

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there is a very small but finite chance you will never ever see that coin again.” - Scott Edward Shjefte

Chapter 3

Chapter 3: DISCRETE RANDOM
VARIABLES AND PROBABILITY

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DISTRIBUTIONS 3.1. Random Variables For a given sample space S of some experiment, a random variable is any rule that associates a number with each outcome in S , i.e. a real-valued function that maps the sample space onto the real

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...

Two Types of Random Variables ;
Discrete Random Variable (Chap.
3) A discrete random variable is
an rv whose possible values

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And Probability
either constitute a finite set or else can be listed in an infinite sequence in which there is a first element, a second element, and so on. Continuous Random Variable (Chap. 4) A random variable is continuous if its set of

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