



Discrete Probability Distributions

Objectives

After completing this chapter, you should be able to

- 1 Construct a probability distribution for a random variable.
- 2 Find the mean, variance, standard deviation, and expected value for a discrete random variable.
- 3 Find the exact probability for X successes in n trials of a binomial experiment.
- 4 Find the mean, variance, and standard deviation for the variable of a binomial distribution.

Outline

Introduction

5-1 Probability Distributions

5-2 Mean, Variance, Standard Deviation, and Expectation

5-3 The Binomial Distribution

Summary

Chapter 5 Discrete Probability Distributions Knu

Charles Stanley



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International Aerospace Abstracts ,1989 Discrete Probability Distributions Larry David Tyler,1967 *Discrete Distributions in Engineering and the Applied Sciences* Rajan Chattamvelli,Ramalingam Shanmugam,2022-06-01 This is an introductory book on discrete statistical distributions and its applications It discusses only those that are widely used in the applications of probability and statistics in everyday life The purpose is to give a self contained introduction to classical discrete distributions in statistics Instead of compiling the important formulas which are available in many other textbooks we focus on important applications of each distribution in various applied fields like bioinformatics genomics ecology electronics epidemiology management reliability etc making this book an indispensable resource for researchers and practitioners in several scientific fields Examples are drawn from different fields An up to date reference appears at the end of the book Chapter 1 introduces the basic concepts on random variables and gives a simple method to find the mean deviation MD of discrete distributions The Bernoulli and binomial distributions are discussed in detail in Chapter 2 A short chapter on discrete uniform distribution appears next The next two chapters are on geometric and negative binomial distributions Chapter 6 discusses the Poisson distribution in depth including applications in various fields Chapter 7 is on hypergeometric distribution As most textbooks in the market either do not discuss or contain only brief description of the negative hypergeometric distribution we have included an entire chapter on it A short chapter on logarithmic series distribution follows it in which a theorem to find the kth moment of logarithmic distribution using k 1 th moment of zero truncated geometric distribution is presented The last chapter is on multinomial distribution and its applications The primary users of this book are professionals and practitioners in various fields of engineering and the applied sciences It will also be of use to graduate students in statistics research scholars in science disciplines and teachers of statistics biostatistics biotechnology education and psychology

Identification of discrete probability distributions from partial information Michael A. Pittarelli,1990 **One of the Discrete Probability Distributions and Simulation Is Accidents and Incidents** Charles Stanley,2017-02-03 In this book we will bring together two key concepts from earlier chapters The first of these is the idea of a frequency distribution which shows the frequency or regularity with which the values of a variable occur in other words how they are distributed across their range The second key concept is that of probability which we considered in Chapter 9 Here we will be looking at probability distributions which portray not the frequency with which values of a distribution actually occur but the probability with which we predict they will occur Probability distributions are very important tools for modelling or representing processes that occur at random such as customers visiting a website or accidents on a building site These are examples of discrete random variables as they vary in a random fashion and can have only certain values whole numbers in both cases we cannot conceive of half a customer visiting a website or 0.3 of an accident happening We use discrete probability distributions to model these sorts of variables In studying probability

distributions we will look at how they

Identification of Discrete Probability Distributions from Partial Information Michael Anthony Pittarelli,1987

Approximations to Discrete Probability Distributions David Trent Brown,1959

Recovery of Sparse Discrete Probability Distributions from Moments Anna Cohen,2012

Construction of Bivariate Discrete Probability Distributions Wolfgang A. Bereuter,1975

DISCRETE PROBABILITY AND PROBABILITY DISTRIBUTIONS - II [2 Credits] Statistics V. R. (Mrs. PRAYAG,P. G. Dixit,P. S. Kapre,2019-10 The main purpose of the book is to provide foundation as well as comprehensive background of Discrete Probability Theory to beginners in simple and interesting manner In order to make the contents of the book easier to comprehend we have included a requisite number of illustrations remarks figures diagrams etc to elucidate statistical concepts Application of Statistics in real life situations is emphasized through illustrative examples

Families of Discrete Probability Distributions Associated with Power Series Expansions Mohamed M. Shoukri,1977

The Relationships Between Discrete and Continuous Probability Distributions Jagdishbhai Nagjibhai Patel,1962

New Over-/under- Dispersed Class of Inflated-parameter Discrete Probability Distributions Nikolai Kolev,Leda Minkova,1998

A New Derivative with Applications to Asymptotic Limits of Discrete Probability Distributions Vivian Pessin,1962

Discrete and Continuous Probability Distributions Kathryn Paulk,2018-01-07 This book is a creative introduction to discrete and continuous distributions To help students identify distributions and to apply appropriate equations a set of discrete and continuous distributions are personified with a set of college professors who stay overtime in their classes according to a particular distribution Statistics for each professor are calculated and compared It is assumed that the reader has completed courses in differential and integral calculus

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Random Variables and Probability Distributions H. Cramer,2004-06-03 This tract develops the purely mathematical side of the theory of probability without reference to any applications When originally published it was one of the earliest works in the field built on the axiomatic foundations introduced by A Kolmogoroff in his book Grundbegriffe der Wahrscheinlichkeitsrechnung thus treating the subject as a branch of the theory of completely additive set functions The author restricts himself to a consideration of probability distributions in spaces of a finite number of dimensions and to problems connected with the Central Limit Theorem and some of its generalizations and modifications In this edition the chapter on Liapounoff s theorem has been partly rewritten and now includes a proof of the important inequality due to Berry and Esseen The terminology has been modernized and several minor changes have been made

Discrete Distributions Daniel Zelterman,2005-09-27 There have been many advances in

the theory and applications of discrete distributions in recent years They can be applied to a wide range of problems particularly in the health sciences although a good understanding of their properties is very important Discrete Distributions Applications in the Health Sciences describes a number of new discrete distributions that arise in the statistical examination of real examples For each example an understanding of the issues surrounding the data provides the motivation for the subsequent development of the statistical models Provides an overview of discrete distributions and their applications in the health sciences Focuses on real examples giving readers an insight into the utility of the models Describes the properties of each distribution and the methods that led to their development Presents a range of examples from the health sciences including cancer epidemiology and demography Features discussion of software implementation in SAS Fortran and R enabling readers to apply the methods to their own problems Written in an accessible style suitable for applied statisticians and numerate health scientists Software and data sets are made available on the Web Discrete Distributions Applications in the Health Sciences provides a practical introduction to these powerful statistical tools and their applications suitable for researchers and graduate students from statistics and biostatistics The focus on applications and the accessible style of the book make it an excellent practical reference source for practitioners from the health sciences *Random Variables and Probability Distributions* Harald Cramer,2003-01 Regularized Discrete Probability Distribution with Dependence Tree Abdallah Mkhadri,Sami Bochi,1994

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