

## MAT 1034 INTRODUCTION TO PROBABILITY

## Chapter 4: Multivariate Probability Distribution

**1. Joint Probability Distributions**

Our study of random variables and their probability distributions in the preceding chapters is restricted to one-dimensional sample spaces, where we recorded outcomes of an experiment as values assumed by a single random variable. There will be situations, however, where we may find it desirable to record the simultaneous outcomes of several variables. For example:

1. We might measure the amount of precipitate  $P$  and volume  $V$  of gas released from a controlled chemical experiment, giving rise to a two-dimensional sample space consisting of the outcomes  $(p, v)$ .
2. We might be interested in the hardness  $H$  and tensile strength  $T$  of cold-drawn copper, resulting in the outcomes  $(h, t)$ .
3. In a study to determine the likelihood of success in college based on high school data, we might use a three-dimensional sample space and record for each individual his or her aptitude test score, high school class rank, and grade-point average at the end of freshman year in college.

If  $X$  and  $Y$  are two discrete random variables, the probability distribution for their simultaneous occurrence can be represented by a function with values  $f(x, y)$  for any pair of values  $(x, y)$  within the range of the random variables  $X$  and  $Y$ . This function is referred to as the joint probability distribution of  $X$  and  $Y$ .

Hence, in the discrete case,

$$f(x, y) = P(X = x, Y = y)$$

that is, the values  $f(x, y)$  give the probability that outcomes  $x$  and  $y$  occur at the same time.

**Definition 1.1**

The function  $f(x, y)$  is a joint probability distribution or probability mass function of the discrete random variables  $X$  and  $Y$  if

1.  $f(x, y) \geq 0$  for all  $(x, y)$
2.  $\sum_x \sum_y f(x, y) = 1$
3.  $P(X = x, Y = y) = f(x, y)$

For any region  $A$  in the  $xy$  plane,  $P[(X, Y) \in A] = \sum_x \sum_y f(x, y)$

# Chapter 4 Multivariate Probability And Statistics

**Alan Anderson**



## **Chapter 4 Multivariate Probability And Statistics:**

*Handbook of Monte Carlo Methods* Dirk P. Kroese, Thomas Taimre, Zdravko I. Botev, 2013-06-06 A comprehensive overview of Monte Carlo simulation that explores the latest topics techniques and real world applications More and more of today s numerical problems found in engineering and finance are solved through Monte Carlo methods The heightened popularity of these methods and their continuing development makes it important for researchers to have a comprehensive understanding of the Monte Carlo approach *Handbook of Monte Carlo Methods* provides the theory algorithms and applications that helps provide a thorough understanding of the emerging dynamics of this rapidly growing field The authors begin with a discussion of fundamentals such as how to generate random numbers on a computer Subsequent chapters discuss key Monte Carlo topics and methods including Random variable and stochastic process generation Markov chain Monte Carlo featuring key algorithms such as the Metropolis Hastings method the Gibbs sampler and hit and run Discrete event simulation Techniques for the statistical analysis of simulation data including the delta method steady state estimation and kernel density estimation Variance reduction including importance sampling latin hypercube sampling and conditional Monte Carlo Estimation of derivatives and sensitivity analysis Advanced topics including cross entropy rare events kernel density estimation quasi Monte Carlo particle systems and randomized optimization The presented theoretical concepts are illustrated with worked examples that use MATLAB a related Web site houses the MATLAB code allowing readers to work hands on with the material and also features the author s own lecture notes on Monte Carlo methods Detailed appendices provide background material on probability theory stochastic processes and mathematical statistics as well as the key optimization concepts and techniques that are relevant to Monte Carlo simulation *Handbook of Monte Carlo Methods* is an excellent reference for applied statisticians and practitioners working in the fields of engineering and finance who use or would like to learn how to use Monte Carlo in their research It is also a suitable supplement for courses on Monte Carlo methods and computational statistics at the upper undergraduate and graduate levels

**Statistics for Big Data For Dummies** Alan Anderson, 2015-08-11 The fast and easy way to make sense of statistics for big data Does the subject of data analysis make you dizzy You ve come to the right place *Statistics For Big Data For Dummies* breaks this often overwhelming subject down into easily digestible parts offering new and aspiring data analysts the foundation they need to be successful in the field Inside you ll find an easy to follow introduction to exploratory data analysis the lowdown on collecting cleaning and organizing data everything you need to know about interpreting data using common software and programming languages plain English explanations of how to make sense of data in the real world and much more Data has never been easier to come by and the tools students and professionals need to enter the world of big data are based on applied statistics While the word statistics alone can evoke feelings of anxiety in even the most confident student or professional it doesn t have to Written in the familiar and friendly tone that has defined the For Dummies brand for more than twenty years *Statistics For Big Data For*

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*Exercises and Solutions in Statistical Theory* Lawrence L. Kupper, Brian. H Neelon, Sean M. O'Brien, 2013-06-24 Exercises and Solutions in Statistical Theory helps students and scientists obtain an in depth understanding of statistical theory by working on and reviewing solutions to interesting and challenging exercises of practical importance Unlike similar books this text incorporates many exercises that apply to real world settings and provides much mor

**Data Assimilation for the Geosciences** Steven J. Fletcher, 2022-11-16 Data Assimilation for the Geosciences From Theory to Application Second Edition brings together all of the mathematical and statistical background knowledge needed to formulate data assimilation systems into one place It includes practical exercises enabling readers to apply theory in both a theoretical formulation as well as teach them how to code the theory with toy problems to verify their understanding It also demonstrates how data assimilation systems are implemented in larger scale fluid dynamical problems related to land surface the atmosphere ocean and other geophysical situations The second edition of Data Assimilation for the Geosciences has been revised with up to date research that is going on in data assimilation as well as how to apply the techniques The new edition features an introduction of how machine learning and artificial intelligence are interfacing and aiding data assimilation In addition to appealing to students and researchers across the geosciences this now also appeals to new students and scientists in the field of data assimilation as it will now have even more information on the techniques research and applications consolidated into one source Includes practical exercises and solutions enabling readers to apply theory in both a theoretical formulation as well as enabling them to code theory Provides the mathematical and statistical background knowledge needed to formulate data assimilation systems into one place New to this edition covers new topics such as Observing System Experiments OSE and Observing System Simulation Experiments and expanded approaches for machine learning and artificial intelligence

**An Introduction to Mathematical Statistics** H. D. Brunk, 1965 Details the other revolutions during 1776 including the reaction of the native residents of San Francisco in the wake of the first European settlement there and the devastation of the Aleutian Islands by the Russians hunt for sea otters

**Databases for Data-Centric Geotechnics** Kok-Kwang Phoon, Chong Tang, 2024-12-20 Databases for Data Centric Geotechnics forms a definitive reference and guide to databases in geotechnical and rock engineering to enhance decision making in geotechnical practice using data driven methods This first volume pertains to site characterization The opening chapter presents an in depth analysis of site data attributes including the establishment of a new taxonomy of site data under 4S site generalizations

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**Graphical Exploratory Data Analysis** S. H. C. DuToit, A. G. W. Steyn, R. H. Stumpf, 2012-12-06

Portraying data graphically certainly contributes toward a clearer and more penetrative understanding of data and also makes sophisticated statistical data analyses more marketable This realization has emerged from many years of experience in teaching students in research and especially from engaging in statistical consulting work in a variety of subject fields Consequently we were somewhat surprised to discover that a comprehensive yet simple presentation of graphical exploratory techniques for the data analyst was not available Generally books on the subject were either too incomplete stopping at a histogram or pie chart or were too technical and specialized and not linked to readily available computer programs Many of these graphical techniques have furthermore only recently appeared in statistical journals and are thus not easily accessible to the statistically unsophisticated data analyst This book therefore attempts to give a sound overview of most of the well known and widely used methods of analyzing and portraying data graphically Throughout the book the emphasis is on exploratory techniques Realizing the futility of presenting these methods without the necessary computer programs to actually perform them we endeavored to provide working computer programs in almost every case Graphic representations are illustrated throughout by making use of real life data Two such data sets are frequently used throughout the text In realizing the aims set out above we avoided intricate theoretical derivations and explanations but we nevertheless are convinced that this book will be of inestimable value even to a trained statistician

*Water-resources Engineering* David A. Chin, 2006 This in depth review of water resources engineering essentials focuses on both fundamentals and design applications Emphasis on fundamentals encourages readers understanding of basic equations in water resources engineering and the background that is necessary to develop innovative solutions to complex problems Comprehensive design applications illustrate the practical application of the basic equations of water resources engineering Full coverage of

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