

## 6 Probability Models of Derived Random Variables

Derived random variables  $Z$  can be created from random variables  $X$  and  $Y$  by choosing a function  $g$  and applying it to  $X$  and  $Y$ . The probability model of  $Z$  is determined by the function  $g$  as follows:

$$Z = g(X, Y)$$
$$f_Z(z) = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} f(x, y) \cdot \delta(z - g(x, y)) dx dy$$

where  $f(x, y)$  is the joint PDF of the random variables  $X$  and  $Y$ ,  $f_Z(z)$  is the PDF of the random variable  $Z$ , and  $\delta(z - g(x, y))$  is the Dirac delta function.

### PMF of a Function of Two Discrete Random Variables

The PMF of a function of two discrete random variables is the probability mass function of the function when the random variables are allowed to take on all possible values. For example, if we defined the derived random variable  $W = g(X, Y)$ , the PMF of  $W$  is as follows:

$$P_W(w) = \sum_{(x, y) \text{ s.t. } g(x, y) = w} P_{X,Y}(x, y)$$

where  $P_{X,Y}(x, y)$  is the joint PMF of the random variables  $X$  and  $Y$ , and  $g(x, y)$  is some function of the random variables  $X$  and  $Y$ .

### Functions Yielding Continuous Random Variables

Functions that yield continuous random variables are functions that take on a continuous range of values. The most common examples of functions that yield continuous random variables are functions that are defined on the real line. If we wanted to find the PDF of  $W = g(X)$ , where  $W$  is a continuous function of some continuous random variable  $X$ , we would follow a two-step process:

1. Find the CDF of  $W$ ,  $F_W(w) = P[W \leq w]$ .
2. Differentiate  $F_W(w)$  to find the PDF of  $W$ ,  $f_W(w) = \frac{d}{dw} F_W(w)$ .

This two-step process will always work. However, it tends to be easiest only when  $g(X)$  happens to be a linear function of  $X$ .

If  $W = aX$ , where  $a > 0$ , then:

- $F_W(w) = F_X(\frac{w}{a})$  and  $f_W(w) = \frac{1}{a} f_X(\frac{w}{a})$ .
- If  $X$  is Uniform( $b, c$ ), then  $W$  is Uniform( $ab, ac$ ).
- If  $X$  is Exponential( $\lambda$ ), then  $W$  is Exponential( $\frac{\lambda}{a}$ ).
- If  $X$  is Erlang( $n, \lambda$ ), then  $W$  is Erlang( $n, \frac{\lambda}{a}$ ).
- If  $X$  is Gaussian( $\mu, \sigma$ ), then  $W$  is Gaussian( $a\mu, a\sigma$ ).

If  $W = X + b$ , then:

- $F_W(w) = F_X(w - b)$  and  $f_W(w) = f_X(w - b)$ .

# Introduction To Probability Models Chapter 6 Solutions

**George Hadley**

## Introduction To Probability Models Chapter 6 Solutions:

**Introduction to Probability Models** Sheldon M. Ross, 2006-12-11 Introduction to Probability Models Tenth Edition provides an introduction to elementary probability theory and stochastic processes. There are two approaches to the study of probability theory. One is heuristic and nonrigorous and attempts to develop in students an intuitive feel for the subject that enables him or her to think probabilistically. The other approach attempts a rigorous development of probability by using the tools of measure theory. The first approach is employed in this text. The book begins by introducing basic concepts of probability theory such as the random variable, conditional probability and conditional expectation. This is followed by discussions of stochastic processes including Markov chains and Poisson processes. The remaining chapters cover queuing reliability theory, Brownian motion and simulation. Many examples are worked out throughout the text along with exercises to be solved by students. This book will be particularly useful to those interested in learning how probability theory can be applied to the study of phenomena in fields such as engineering, computer science, management science, the physical and social sciences and operations research. Ideally this text would be used in a one year course in probability models or a one semester course in introductory probability theory or a course in elementary stochastic processes. New to this Edition 65% new chapter material including coverage of finite capacity queues, insurance risk models and Markov chains. Contains compulsory material for new Exam 3 of the Society of Actuaries containing several sections in the new exams. Updated data and a list of commonly used notations and equations. A robust ancillary package including a ISM, SSM and test bank. Includes SPSS, PASW Modeler and SAS JMP software packages which are widely used in the field. Hallmark features: Superior writing style, Excellent exercises and examples covering the wide breadth of coverage of probability topics, Real world applications in engineering, science, business and economics.

**Introduction to Probability Models** Wayne L. Winston, 2004 Vol 2 CD ROM contains student editions of ProcessModel, LINGO Premium, Solver, DecisionTools Suite including RISK AND RISKOptimizer Data files.

**Mathematical Statistics** Richard J. Rossi, 2018-06-14 Presents a unified approach to parametric estimation, confidence intervals, hypothesis testing and statistical modeling which are uniquely based on the likelihood function. This book addresses mathematical statistics for upper undergraduates and first year graduate students. Tying chapters on estimation, confidence intervals, hypothesis testing and statistical models together to present a unifying focus on the likelihood function. It also emphasizes the important ideas in statistical modeling such as sufficiency, exponential family distributions and large sample properties. Mathematical Statistics: An Introduction to Likelihood Based Inference makes advanced topics accessible and understandable and covers many topics in more depth than typical mathematical statistics textbooks. It includes numerous examples, case studies, a large number of exercises ranging from drill and skill to extremely difficult problems and many of the important theorems of mathematical statistics along with their proofs. In addition to the connected chapters mentioned above, Mathematical Statistics covers likelihood based estimation with emphasis on

multidimensional parameter spaces and range dependent support It also includes a chapter on confidence intervals which contains examples of exact confidence intervals along with the standard large sample confidence intervals based on the MLE s and bootstrap confidence intervals There s also a chapter on parametric statistical models featuring sections on non iid observations linear regression logistic regression Poisson regression and linear models Prepares students with the tools needed to be successful in their future work in statistics data science Includes practical case studies including real life data collected from Yellowstone National Park the Donner party and the Titanic voyage Emphasizes the important ideas to statistical modeling such as sufficiency exponential family distributions and large sample properties Includes sections on Bayesian estimation and credible intervals Features examples problems and solutions Mathematical Statistics An Introduction to Likelihood Based Inference is an ideal textbook for upper undergraduate and graduate courses in probability mathematical statistics and or statistical inference

**Mathematical Modeling** Mark Meerschaert,2013-01-28 The new edition of Mathematical Modeling the survey text of choice for mathematical modeling courses adds ample instructor support and online delivery for solutions manuals and software ancillaries From genetic engineering to hurricane prediction mathematical models guide much of the decision making in our society If the assumptions and methods underlying the modeling are flawed the outcome can be disastrously poor With mathematical modeling growing rapidly in so many scientific and technical disciplines Mathematical Modeling Fourth Edition provides a rigorous treatment of the subject The book explores a range of approaches including optimization models dynamic models and probability models Offers increased support for instructors including MATLAB material as well as other on line resources Features new sections on time series analysis and diffusion models Provides additional problems with international focus such as whale and dolphin populations plus updated optimization problems

**Introduction to Probability and Statistical Decision Theory** George Hadley,1967 The American Mathematical Monthly ,1981 *Applied Probability Models* Do Le Minh,2001 Intended for a course in Probability Models at the undergraduate or graduate level this book is designed for those who will actually use probability and is designed to fit diverse audiences business students applied engineering students and biology students The course focuses on applications of probability through the presentation of models rather than theory alone In this practical and interesting book author Do Le Paul Minh provides accessible coverage for a course in probability models Minh motivates the material with interesting application problems relating to medicine business and engineering many of which are based on real studies and applications Throughout the book he thoughtfully integrates the use of computers and spreadsheets to solve problems

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Quantitative Methods and Computer Applications in Business, 1981      **Advances in Applied Probability**, 1991

**Probability, Statistics, and Random Processes for Electrical Engineering** Alberto Leon-Garcia, 2008 While helping students to develop their problem solving skills the author motivates students with practical applications from various areas of ECE that demonstrate the relevance of probability theory to engineering practice.      *Difference Equations with Public Health Applications* Lemuel A. Moyé, Asha Seth Kapadia, 2000-09-22 This study of difference equations with public health applications develops the methodology for the solution of the general  $k$ th order linear difference equation using the generating function approach. It includes an examination of the dynamics of disease spread and containment in populations.

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web the table in this section shows the standard names of modern recorders in f and c and their respective ranges music composed after the modern revival of the recorder most frequently uses soprano alto tenor and bass recorders although sopranino and great bass are also fairly common

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