

**GENERAL PROBABILITY**
**Basic Probability Relationships**

$$\Pr(A \cup B) = \Pr(A) + \Pr(B) - \Pr(A \cap B)$$

$$\Pr(A \cup B \cup C) = \Pr(A) + \Pr(B) + \Pr(C) - \Pr(A \cap B) - \Pr(B \cap C) - \Pr(A \cap C) + \Pr(A \cap B \cap C)$$

$$\Pr(A') = 1 - \Pr(A)$$

**Law of Total Probability**

$$\Pr(B) = \sum_{i=1}^n \Pr(B \cap A_i)$$

**De Morgan's Law**

$$\Pr[(A \cup B)'] = \Pr(A' \cap B')$$

$$\Pr[(A \cap B)'] = \Pr(A' \cup B')$$

**Conditional Probability**

$$\Pr(A|B) = \frac{\Pr(A \cap B)}{\Pr(B)}$$

**Independence**

$$\Pr(A \cap B) = \Pr(A) \cdot \Pr(B)$$

$$\Pr(A|B) = \Pr(A)$$

**Bayes' Theorem**

$$\Pr(A_k|B) = \frac{\Pr(B|A_k) \cdot \Pr(A_k)}{\sum_{i=1}^n \Pr(B|A_i) \cdot \Pr(A_i)}$$

**Combinatorics**

$$n! = n \cdot (n-1) \cdot \dots \cdot 2 \cdot 1$$

$${}_nP_k = \frac{n!}{(n-k)!}$$

$${}_nC_k = \binom{n}{k} = \binom{n}{n-k} = \frac{n!}{(n-k)! \cdot k!}$$

$$\text{Partition} = \frac{n!}{k_1! \cdot k_2! \cdot \dots \cdot k_r!}, \quad k_1 + k_2 + \dots + k_r = n$$

$$\text{Probability} = \frac{\text{number of outcomes that satisfy the event}}{\text{total number of outcomes}}$$

**UNIVARIATE PROBABILITY DISTRIBUTIONS**

*\*Learn both discrete and continuous cases*

**\*Probability Mass Function (PMF)**

$$\sum_{\text{all } x} p_X(x) = 1$$

$$\Pr(X = a) = 0 \text{ (continuous)}$$

**\*Cumulative Distribution Function (CDF)**

$$F_X(x) = \Pr(X \leq x) = \sum_{t \leq x} p_X(t)$$

$$\Pr(a < X \leq b) = F_X(b) - F_X(a)$$

$$f_X(x) = \frac{d}{dx} F_X(x) \text{ (continuous)}$$

$$S_X(x) = 1 - F_X(x) = \Pr(X > x)$$

**\*Expected Value**

$$E[g(X)] = \int_{-\infty}^{\infty} g(x) \cdot f_X(x) \, dx$$

$$E[g(X)] = \int_0^{\infty} g'(x) \cdot S_X(x) \, dx, \text{ for } x \geq 0 \text{ and } g(0) = 0$$

$$E[g(X)|j \leq X \leq k] = \frac{\int_j^k g(x) \cdot f_X(x) \, dx}{\Pr(j \leq X \leq k)}$$

$$E[c] = c$$

$$E[c \cdot g(X)] = c \cdot E[g(X)]$$

$$E[g_1(X) + \dots + g_n(X)] = E[g_1(X)] + \dots + E[g_n(X)]$$

**Variance, Standard Deviation, and**
**Coefficient of Variation**

$$\text{Var}[X] = E[(X - \mu)^2] = E[X^2] - (E[X])^2$$

$$\text{Var}[aX + b] = a^2 \cdot \text{Var}[X]$$

$$\text{Var}[c] = 0$$

$$\text{SD}[X] = \sqrt{\text{Var}[X]}$$

$$\text{CV}[X] = \text{SD}[X]/E[X]$$

**Percentiles**

The  $100p^{\text{th}}$  percentile is the smallest value of  $x_p$  where  $F_X(x_p) \geq p$ .

**Modes**

The mode(s) of a random variable is/are the value(s) where the probability function is maximized.

# Actuary P Exam Study Guide

**Jasper McCoy**



## Actuary P Exam Study Guide:

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Broverman,2015 SOA Exam P Study Manual Abraham Weishaus,2017 *A Risky Business* Catrin Townsend,2022-09-24 Intangible invisible and worth trillions risk is everywhere Its quantification and management are key to the success and failure of individuals businesses and governments Whether you're an interested observer or pursuing a career in risk this

book delves into the complex and multi faceted work that actuaries undertake to quantify manage and commodify risk supporting our society and servicing a range of multi billion dollar industries Starting at the most basic level this book introduces key concepts in actuarial science insurance and pensions Through case studies explanations and mathematical examples it fosters an understanding of current industry practice This book celebrates the long history of actuarial science and poses the problems facing actuaries in the future exploring complex global risks including climate change aging populations healthcare models and pandemic epidemiology from an actuarial perspective It gives practical advice for new and potential actuaries on how to identify an area of work to go into how best to navigate and pass actuarial exams and how to develop your skills post qualification A Risky Business illuminates how actuaries are central to society as we know it revealing what they do and how they do it It is the essential primer on actuarial science      **Probability** G. V.

Ramanathan,2007      **Actuarial Probability Exam (P)** National Learning Corporation,2016 The Actuarial Probability Exam P Passbook R prepares you for your test by allowing you to take practice exams in the subjects you need to study It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam including but not limited to algebraic reasoning understanding information presented in tables basic actuarial reasoning supervision and other related areas      BNA Pension Reporter ,1991      A/s/m SOA Exam P Study Manual Abraham Weishaus,2018

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## **Table of Contents Actuary P Exam Study Guide**

1. Understanding the eBook Actuary P Exam Study Guide
  - The Rise of Digital Reading Actuary P Exam Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Actuary P Exam Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Actuary P Exam Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Actuary P Exam Study Guide
  - Personalized Recommendations
  - Actuary P Exam Study Guide User Reviews and Ratings
  - Actuary P Exam Study Guide and Bestseller Lists

5. Accessing Actuary P Exam Study Guide Free and Paid eBooks
  - Actuary P Exam Study Guide Public Domain eBooks
  - Actuary P Exam Study Guide eBook Subscription Services
  - Actuary P Exam Study Guide Budget-Friendly Options
6. Navigating Actuary P Exam Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Actuary P Exam Study Guide Compatibility with Devices
  - Actuary P Exam Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Actuary P Exam Study Guide
  - Highlighting and Note-Taking Actuary P Exam Study Guide
  - Interactive Elements Actuary P Exam Study Guide
8. Staying Engaged with Actuary P Exam Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Actuary P Exam Study Guide
9. Balancing eBooks and Physical Books Actuary P Exam Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Actuary P Exam Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Actuary P Exam Study Guide
  - Setting Reading Goals Actuary P Exam Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Actuary P Exam Study Guide
  - Fact-Checking eBook Content of Actuary P Exam Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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