

3.19

$$\begin{aligned}
 P[\text{decoding error}] &= P[3 \text{ or more bit errors}] \\
 &= \binom{5}{3} p^3 (1-p)^2 + \binom{5}{4} p^4 (1-p) + \binom{5}{5} p^5 \\
 &= \frac{5!}{2!3!} 10^{-3} (.9)^2 + \frac{5!}{4!1!} 10^{-4} (.9) + 10^{-5} \\
 &= (6.21)(10)(10^{-3}) + (0.9)(5)10^{-4} + 10^{-5} \\
 &= 0.00856
 \end{aligned}$$

which is an order of magnitude less than without coding.

3.20

1st toss

2nd toss

	1	2	3	4	5	6
1	0	1	2	3	4	5
2	-1	0	1	2	3	4
3	-2	-1	0	1	2	3
4	-3	-2	-1	0	1	2
5	-4	-3	-2	-1	0	1
6	-5	-4	-3	-2	-1	0

$$P[X=k] = \frac{6-|k|}{36}, \quad |k| \leq 5$$

$$\begin{aligned}
 P[X=0] &= \frac{6}{36} \\
 P[X=1] &= \frac{5}{36} = P[X=-1] \\
 P[X=2] &= \frac{4}{36} = P[X=-2] \\
 P[X=3] &= \frac{3}{36} = P[X=-3] \\
 P[X=4] &= \frac{2}{36} = P[X=-4] \\
 P[X=5] &= \frac{1}{36} = P[X=-5]
 \end{aligned}$$


$$P[|X| \leq 2] = \frac{6}{36} + 2 \cdot \frac{5}{36} + 2 \cdot \frac{4}{36} = \frac{24}{36}$$

Solutions In Statistics And Probability

Bhisham C. Gupta, Irwin Guttman



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Statistics: Problems And Solution (Second Edition) Eryl E Bassett, J Mike Bremner, Byron Jones, Byron J T Morgan, P M North, Ian T Jolliffe, 2000-06-27 Originally published in 1986 this book consists of 100 problems in probability and statistics together with solutions and most importantly extensive notes on the solutions The level of sophistication of the problems is similar to that encountered in many introductory courses in probability and statistics At this level straightforward solutions to the problems are of limited value unless they contain informed discussion of the choice of technique used and possible alternatives The solutions in the book are therefore elaborated with extensive notes which add value to the solutions themselves The notes enable the reader to discover relationships between various statistical techniques and provide the confidence needed to tackle new problems

Fifty Challenging Problems in Probability with Solutions Frederick Mosteller, 2012-04-26 Remarkable puzzlers graded in difficulty illustrate elementary and advanced aspects of probability These problems were selected for originality general interest or because they demonstrate valuable techniques Also includes detailed solutions

Solutions in Statistics and Probability Edward J. Dudewicz, 1980 *Student's Solutions Guide for Introduction to Probability, Statistics, and Random Processes* Hossein Pishro-Nik, 2016-06-20 Since the 2014 publication of *Introduction to Probability Statistics and Random Processes* many have requested the distribution of solutions to the problems in the textbook This book contains guided solutions to the odd numbered end of chapter problems found in the companion textbook *Student's Solutions Guide for Introduction to Probability Statistics and Random Processes* has been published to help students better understand the subject and learn the necessary techniques to solve the problems Additional materials such as videos lectures and calculators are available at www.probabilitycourse.com

Student Solutions Manual for Probability and Statistics Morris DeGroot, Mark Schervish, 2011-01-14 This manual contains completely worked out solutions for all the odd numbered exercises in the text

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Solutions to Probability and Statistics with Applications Leonard A. Asimow, Mark M. Maxwell, 2010

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A Selected Annotated Bibliography on the Analysis of Water Resource Systems, 1969

Theoretical Exercises in Probability and Statistics Najeeb Abdur Rahman, 1983 [Solutions Manual to Accompany Statistics and Probability with Applications for Engineers and Scientists](#) Bhisham C. Gupta, Irwin Guttman, 2013-01-29 A solutions manual to accompany *Statistics and Probability with Applications for Engineers and Scientists* Unique among books of this kind *Statistics and Probability with Applications for Engineers and Scientists* covers descriptive statistics first then goes on to discuss the fundamentals of probability theory Along with case studies examples

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Waterworks distribution, a practical guide to the laying out of systems of distributing mains John Ambrose McPherson,1900 *Probability and Statistics Solutions Manual* Michael J. Evans,Jeffrey S. Rosenthal,2006-07-01

Solutions to Selected Problems, Introduction to Probability and Statistics Bernard William Lindgren,G. W. McElrath,1969 *Library of Congress Subject Headings* Library of Congress,2013 Inventory/distribution System for AT&T Information Systems Data Communications Equipment (DCE) Products ,1986 Management Arthur G. Bedeian,1993

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