

3.19

$$\begin{aligned}
 P[\text{decoding error}] &= P[\text{3 or more bit errors}] \\
 &= \binom{5}{3} p^3 (1-p)^2 + \binom{5}{4} p^4 (1-p) + \binom{5}{5} p^5 \\
 &= \frac{5!}{2!3!} \bar{10}^3 (0.7)^2 + \frac{5!}{4!1!} \bar{10}^4 (0.7) + \bar{10}^5 \\
 &= (0.91)(10)(\bar{10}^3) + (0.9)(5)(\bar{10}^4) + \bar{10}^5 \\
 &= 0.000256
 \end{aligned}$$

which is an order of magnitude less than without coding.

3.20

		2nd toss					
		1	2	3	4	5	6
1st toss	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

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

$$P[X=0] = \frac{6}{36}$$

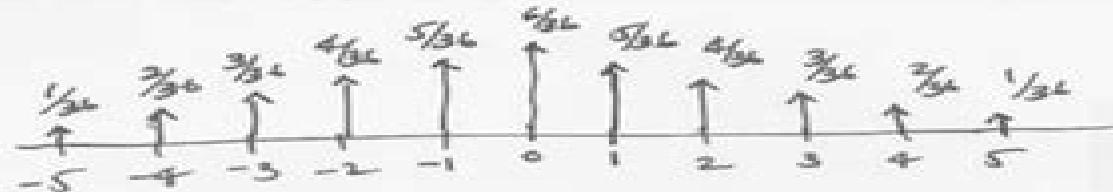
$$P[X=1] = \frac{5}{36} = P[X=-1]$$

$$P[X=2] = \frac{4}{36} = P[X=-2]$$

$$P[X=3] = \frac{3}{36} = P[X=-3]$$

$$P[X=4] = \frac{2}{36} = P[X=-4]$$

$$P[X=5] = \frac{1}{36} = P[X=-5]$$



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

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

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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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Report from the Team Evaluating Systems Analysis in Reclamation Planning United States. Team Evaluating Systems Analysis in Reclamation Planning,1971

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

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and real world data sets the book incorporates clear instructions on how to use the statistical packages Minitab and Microsoft Office Excel to analyze various data sets. The book also features detailed discussions on sampling distributions, statistical estimation of population parameters, hypothesis testing, reliability theory, statistical quality control including Phase I and Phase II control charts and process capability indices. A clear presentation of nonparametric methods and simple and multiple linear regression methods as well as a brief discussion on logistic regression method. Comprehensive guidance on the design of experiments including randomized block designs, one and two way layout designs, Latin square designs, random effects and mixed effects models, factorial and fractional factorial designs and response surface methodology. A companion website containing data sets for Minitab and Microsoft Office Excel as well as JMP routines and results. Assuming no background in probability and statistics, *Statistics and Probability with Applications for Engineers and Scientists* features a unique yet tried and true approach that is ideal for all undergraduate students as well as statistical practitioners who analyze and illustrate real world data in engineering and the natural sciences. [Real Analysis and Probability](#) Robert B. Ash, 1972

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