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CHAPTER 2

Section 2-1

Provide a reasonable description of the sample space for each of the random experiments in Exercises 2.1.1 to 2.1.6. There can be more than one acceptable interpretation of each experiment. Describe any assumptions you make.

- 2.1.1 Each of four transmitted bits is classified as either in error or not in error.

Let e and o denote a bit in error and not in error (o denotes okay), respectively.

$$S = \left\{ \begin{array}{l} eeee, eoeo, oeee, oooo, \\ eeo o, eoe o, oe o o, oo e o, \\ eoe e, eooo, oeoe, oo oe, \\ eeo o, oo o o, ooe o, oooo \end{array} \right\}$$

- 2.1.2 The number of hits (views) is recorded at a high-volume Web site in a day.

$$S = \{0, 1, 2, \dots\} = \text{set of nonnegative integers}$$

- 2.1.3 In the final inspection of electronic power supplies, either units pass, or three types of nonconformities might occur: functional, minor, or cosmetic. Three units are inspected.

Let a denote an acceptable power supply.

Let f , m , and c denote a power supply that has a functional, minor, or cosmetic error, respectively.

$$S = \{a, f, m, c\}$$

- 2.1.4 An oscilloscope that displays three digits is used to measure current in milliamperes.

A vector with three components can describe the three digits of the oscilloscope. Each digit can be 0, 1, 2, ..., 9.

The sample space S is 1000 possible three digit integers, $S = \{000, 001, \dots, 999\}$

- 2.1.5 The following two questions appear on an employee survey questionnaire. Each answer is chosen from the five point scale 1 (never), 2, 3, 4, 5 (always).

Is the corporation willing to listen to and fairly evaluate new ideas?

How often are my co-workers important in my overall job performance?

Let an ordered pair of numbers, such as 43 denote the responses on the first and second question. Then, S consists of the 25 ordered pairs $\{11, 12, \dots, 55\}$

- 2.1.6 The time until service transaction is requested of a computer is the nearest millisecond.

$$S = \{0.1, 2, \dots\} \text{ in milliseconds}$$

Solution Manual Applied Statistics Probability Engineers

Victor M. Corman



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Applied Methods of Structural Reliability Milík Tichý, 2012-12-06 A quarter of the century has elapsed since I gave my first course in structural reliability to graduate students at the University of Waterloo in Canada Since that time on I have given many courses and seminars to students researchers designers and site engineers interested in reliability I also participated in and was responsible for numerous projects where reliability solutions were required During that period the scope of structural reliability gradually enlarged to become a substantial part of the general reliability theory First it is apparent that bearing structures should not be isolated objectives of interest and consequently that constntCted facilities should be studied Second a new engineering branch has emerged reliability engineering These two facts have highlighted new aspects and asked for new approaches to the theory and applications I always state in my lectures that the reliability theory is nothing more than mathematized engineering judgment In fact thanks mainly to probability and statistics and also to computers the empirical knowledge gained by Humankind s construction experience could have been transposed into a pattern of logic thinking able to produce conclusions and to forecast the behavior of engineering entities This manner of thinking has developed into an intricate network linked by certain rules which in a way can be considered a type of reliability grammar We can discern many grammatical concepts in the general structure of the reliability theory

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