

3.102 Risk of a natural-gas pipeline accident. *Process Safety Progress* (Dec. 2004) published a risk analysis for a natural-gas pipeline between Bolivia and Brazil. The most likely scenario for an accident would be natural-gas leakage from a hole in the pipeline. The probability that the leak ignites immediately (causing a jet fire) is .01. If the leak does not immediately ignite, it may result in the delayed ignition of a gas cloud. Given no immediate ignition, the probability of delayed ignition (causing a flash fire) is .01. If there is no delayed ignition, the gas cloud will disperse harmlessly. Suppose a leak occurs in the natural-gas pipeline. Find the probability that either a jet fire or a flash fire will occur. Illustrate with a tree diagram.

3.103 Encryption systems with erroneous ciphertexts. In cryptography, ciphertext is encrypted or encoded text that is

unreadable by a human or computer without the proper algorithm to decrypt it into plaintext. The impact of erroneous ciphertexts on the performance of an encryption system was investigated in *IEEE Transactions on Information Forensics and Security* (Apr. 2013). For one data encryption system, the probability of receiving an erroneous ciphertext is assumed to be β , where $0 < \beta < 1$. The researchers showed that if an erroneous ciphertext occurs, the probability of an error in restoring plaintext using the decryption system is δ . When no error occurs in the received ciphertext, the probability of an error in restoring plaintext using the decryption system is $\alpha\beta$, where $0 < \alpha < 1$. Use this information to give an expression for the probability of an error in restoring plaintext using the decryption system.

CHAPTER NOTES

Key Terms

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Key Symbols

S	Sample space (collection of all sample points)
$A: \{1, 2\}$	Set of sample points in event A
$P(A)$	Probability of event A
$A \cup B$	Union of events A and B (either A or B occurs)
$A \cap B$	Intersection of events A and B (both A and B occur)

A^c	Complement of A (event A does not occur)
$A B$	Event A occurs, given that event B occurs
$\binom{N}{n}$	Number of combinations of N elements taken n at a time
$N!$	N factorial = $N(N-1)(N-2) \dots (2)(1)$

Key Ideas

Probability Rules for k Sample Points, $S_1, S_2, S_3, \dots, S_k$

- $0 \leq P(E_i) \leq 1$
- $\sum P(E_i) = 1$

Combinations Rule

Counting number of samples of n elements selected from N elements

$$\begin{aligned} \binom{N}{n} &= \frac{N!}{n!(N-n)!} \\ &= \frac{N(N-1)(N-2) \dots (N-n+1)}{n(n-1)(n-2) \dots (2)(1)} \end{aligned}$$

Mind On Statistics Chapters 1 11

Richard Bailey



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