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Nota di contenuto	1 APERITIFS; 1.1 The Lexicon of Cryptography; 1.2 Cryptographic Systems; 1.3 Cryptanalysis; 1.4 Side Information; 1.5 Thomas Jefferson and the M-94; 1.6 Cryptography and History; 1.7 Cryptography and Computers; 1.8 The National Security Agency; 1.9 The Giants; 1.10 No Sex, Money, Crime or . . . Love; 1.11 An Example of the Inference Process in Cryptanalysis; 1.12 Warning!; CHAPTER 2 COLUMNAR TRANSPOSITION; 2.1 Shannon's Classification of Secrecy Transformations 2.2 The Rules of Columnar Transposition Encipherment2.3 Cribbing; 2.4 Examples of Cribbing; 2.5 Plaintext Language Models; 2.6 Counting k-Grams; 2.7 Deriving the Parameters of a Markov Model from Sliding Window Counts; 2.8 Markov Scoring; 2.9 The ADFGVX Transposition System; 2.10 CODA; 2.11 Columnar Transposition Problems; CHAPTER 3 MONOALPHABETIC SUBSTITUTION; 3.1 Monoalphabetic Substitution; 3.2 Caesar's Cipher; 3.3 Cribbing Using Isomorphs; 3.4 The x(2)-Test of a Hypothesis; 3.5 Pruning from the Table of Isomorphs; 3.6 Partial Maximum Likelihood Estimation of a Monoalphabetic Substitution

3.7 The Hidden Markov Model (HMM); 3.8 Hill Encipherment of ASCII N-Grams; 3.9 Gaussian Elimination; 3.10 Monoalphabetic Substitution Problems; CHAPTER 4 POLYALPHABETIC SUBSTITUTION; 4.1 Running Keys; 4.2 Blaise de Vigenere; 4.3 Gilbert S. Vernam; 4.4 The One-Time Pad; 4.5 Finding the Key of Vernam-Vigenere Ciphertext with Known Period by Correlation; 4.6 Coincidence; 4.7 Venona; 4.8 Polyalphabetic Substitution Problems; CHAPTER 5 STATISTICAL TESTS; 5.1 Weaknesses in a Cryptosystem; 5.2 The Kolmogorov-Smirnov Test; 5.3 NIST's Proposed Statistical Tests; 5.4 Diagnosis
5.5 Statistical Tests Problems
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8.7 Combining Multiple Linear Feedback Shift Registers.

Sommario/riassunto

Gain the skills and knowledge needed to create effective data security systems This book updates readers with all the tools, techniques, and concepts needed to understand and implement data security systems. It presents a wide range of topics for a thorough understanding of the factors that affect the efficiency of secrecy, authentication, and digital signature schema. Most importantly, readers gain hands-on experience in cryptanalysis and learn how to create effective cryptographic systems. The author contributed to the design and analysis of the Data Encryption Standard (DES).
