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	Autore	Stallings William
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	Nota di contenuto	Cover -- Contents -- Notation -- Preface -- Chapter 0 Guide for Readers and Instructors -- 0.1 Outline of This Book -- 0.2 A Roadmap for Readers and Instructors -- 0.3 Internet and Web Resources -- 0.4 Standards -- Chapter 1 Overview -- 1.1 Computer Security Concepts -- 1.2 The OSI Security Architecture -- 1.3 Security Attacks -- 1.4 Security Services -- 1.5 Security Mechanisms -- 1.6 A Model for Network Security -- 1.7 Recommended Reading -- 1.8 Key Terms, Review Questions, and Problems -- PART ONE: SYMMETRIC CIPHERS -- Chapter 2 Classical Encryption Techniques -- 2.1 Symmetric Cipher Model -- 2.2 Substitution Techniques -- 2.3 Transposition Techniques -- 2.4 Rotor Machines -- 2.5 Steganography -- 2.6 Recommended Reading -- 2.7 Key Terms, Review Questions, and Problems -- Chapter 3 Block Ciphers and the Data Encryption Standard -- 3.1 Traditional Block Cipher Structure -- 3.2 The Data Encryption Standard -- 3.3 A DES Example -- 3.4 The Strength of DES -- 3.5 Block Cipher Design Principles -- 3.6 Recommended Reading -- 3.7 Key Terms, Review Questions, and Problems -- Chapter 4 Basic Concepts in Number

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16.2 Extensible Authentication Protocol -- 16.3 IEEE 802.1X Port-Based Network Access Control -- 16.4 Cloud Computing -- 16.5 Cloud Security Risks and Countermeasures -- 16.6 Data Protection in the Cloud -- 16.7 Cloud Security as a Service -- 16.8 Recommended Reading -- 16.9 Key Terms, Review Questions, and Problems -- Chapter 17 Transport-Level Security -- 17.1 Web Security Considerations -- 17.2 Secure Sockets Layer -- 17.3 Transport Layer Security -- 17.4 HTTPS -- 17.5 Secure Shell (SSH) -- 17.6 Recommended Reading -- 17.7 Key Terms, Review Questions, and Problems -- Chapter 18 Wireless Network Security -- 18.1 Wireless Security -- 18.2 Mobile Device Security -- 18.3 IEEE 802.11 Wireless LAN Overview -- 18.4 IEEE 802.11i Wireless LAN Security -- 18.5 Recommended Reading -- 18.6 Key Terms, Review Questions, and Problems -- Chapter 19 Electronic Mail Security -- 19.1 Pretty Good Privacy -- 19.2 S/MIME -- 19.3 DomainKeys Identified Mail -- 19.4 Recommended Reading -- 19.5 Key Terms, Review Questions, and Problems -- Appendix 19A Radix-64 Conversion -- Chapter 20 IP Security -- 20.1 IP Security Overview -- 20.2 IP Security Policy -- 20.3 Encapsulating Security Payload -- 20.4 Combining Security Associations -- 20.5 Internet Key Exchange -- 20.6 Cryptographic Suites -- 20.7 Recommended Reading -- 20.8 Key Terms, Review Questions, and Problems -- APPENDICES -- Appendix A Projects for Teaching Cryptography and Network Security -- A.1 Sage Computer Algebra Projects -- A.2 Hacking Project -- A.3 Block Cipher Projects -- A.4 Laboratory Exercises -- A.5 Research Projects -- A.6 Programming Projects -- A.7 Practical Security Assessments -- A.8 Firewall Projects -- A.9 Case Studies -- A.10 Writing Assignments -- A.11 Reading/Report Assignments -- A.12 Discussion Topics -- Appendix B Sage Examples -- B.1 Linear Algebra and Matrix Functionality.

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Sommario/riassunto

For one-semester, undergraduate- or graduate-level courses in Cryptography, Computer Security, and Network Security A practical survey of cryptography and network security with unmatched support for instructors and students In this age of universal electronic connectivity, viruses and hackers, electronic eavesdropping, and electronic fraud, security is paramount. This text provides a practical survey of both the principles and practice of cryptography and network security. First, the basic issues to be addressed by a network security

capability are explored through a tutorial and survey of cryptography and network security technology. Then, the practice of network security is explored via practical applications that have been implemented and are in use today. An unparalleled support package for instructors and students ensures a successful teaching and learning experience.   Teaching and Learning Experience To provide a better teaching and learning experience, for both instructors and students, this program will: Support Instructors and Students: An unparalleled support package for instructors and students ensures a successful teaching and learning experience.   Apply Theory and/or the Most Updated Research: A practical survey of both the principles and practice of cryptography and network security. Engage Students with Hands-on Projects: Relevant projects demonstrate the importance of the subject, offer a real-world perspective, and keep students interested.

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Sommario/riassunto	This work explores the efficacy of nuclear diplomacy and the consequences of American nuclear-brinkmanship, via a study of the political and diplomatic role of America's nuclear capabilities in conflicts with a non-nuclear China during the Korean War and the Taiwan Strait Crises.