

CS6701 - CRYPTOGRAPHY AND NETWORK SECURITY

UNIT I - INTRODUCTION & NUMBER THEORY

Services, Mechanisms and attacks - the OSI security architecture - Network security model - Classical Encryption techniques (Symmetric cipher model, substitution techniques, transposition techniques, steganography). **Finite Fields and Number Theory:** Groups, Rings, Fields - Modular arithmetic - Euclid's algorithm - Finite fields - Polynomial Arithmetic - Prime numbers - Fermat's and Euler's theorem - Testing for primality - The Chinese remainder theorem - Discrete logarithms.

UNIT II - BLOCK CIPHERS & PUBLIC KEY CRYPTOGRAPHY

Data Encryption Standard - Block cipher principles - block cipher modes of operation - Advanced Encryption Standard (AES) - Triple DES - Blowfish - RC5 algorithm. **Public key cryptography:** Principles of public key cryptosystems - The RSA algorithm - Key management - Diffie Hellman Key exchange - Elliptic curve arithmetic - Elliptic curve cryptography.

UNIT III - HASH FUNCTIONS & DIGITAL SIGNATURES

Authentication requirement - Authentication function - MAC - Hash function - Security of hash function and MAC - MD5 - SHA - HMAC - CMAC - Digital signature and authentication protocols - DSS - El Gamal - Schnorr.

UNIT IV - SECURITY PRACTICE & SYSTEM SECURITY

Authentication applications - Kerberos - X.509 Authentication services - Internet Firewalls for Trusted System: Roles of Firewalls - Firewall related terminology - Types of Firewalls - Firewall designs - SET for E-Commerce Transactions, Intruder - Intrusion detection system - Virus and related threats - Countermeasures - Firewalls design principles - Trusted systems - Practical implementation of cryptography and security.

UNIT V - E-MAIL, IP & WEB SECURITY

E-mail Security: Security Services for E-mail - attacks possible through E-mail - establishing keys privacy - authentication of the source-Message Integrity - Non-repudiation - Pretty Good Privacy - S/MIME. **IPSecurity:** Overview of IPsec - IP and IPv6 - Authentication Header - Encapsulation Security Payload (ESP) - Internet Key Exchange (Phases of IKE, ISAKMP/IKE Encoding). **Web Security:** SSL/TLS Basic Protocol - computing the keys - client authentication - PKI as deployed by SSLAttacks fixed in v3 - Exportability - Encoding - Secure Electronic Transaction (SET).

TEXT BOOKS:

1. William Stallings, Cryptography and Network Security, 6th Edition, Pearson Education, March 2013. (UNIT I,II,III,IV).
2. Charlie Kaufman, Radia Perlman and Mike Speciner, "Network Security ", Prentice Hall of India, 2002. (UNIT V).

Cs6701 Cryptography And Network Security Unit 2

Notes

William Stallings



Cs6701 Cryptography And Network Security Unit 2 Notes:

Cryptography and Network Security: Principles and Practice, Global Edition William Stallings, 2018-10-17 For courses in Cryptography Computer Security and Network Security The Principles and Practice of Cryptography and Network Security Stallings Cryptography and Network Security introduces students to the compelling and evolving field of cryptography and network security In an age of viruses and hackers electronic eavesdropping and electronic fraud on a global scale security is paramount The purpose of this book is to provide a practical survey of both the principles and practice of cryptography and network security In the first part of the book the basic issues to be addressed by a network security capability are explored by providing a tutorial and survey of cryptography and network security technology The latter part of the book deals with the practice of network security practical applications that have been implemented and are in use to provide network security This edition streamlines subject matter with new and updated material including Sage one of the most important features of the book Sage is an open source multiplatform freeware package that implements a very powerful flexible and easily learned mathematics and computer algebra system It provides hands on experience with cryptographic algorithms and supporting homework assignments With Sage students learn a powerful tool that can be used for virtually any mathematical application The book also provides an unparalleled degree of support for instructors and students to ensure a successful teaching and learning experience The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed Cryptography and Network Security: Principles and Practice, International Edition William Stallings, 2014-09-24 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

Cryptography and Network Security: ITL ESL,2012 Cryptography and Network Security is designed as quick reference guide for important undergraduate computer courses The organized and accessible format of this book allows students to learn the important concepts in an easy to understand question *Cryptography and network security* William Stallings,2003

Principles of Cryptography and Network Security Dr.V.S.Narayana Tinnaluri , Mr. Anjikumar Tamarapalli,2022-01-01 Cryptography is the study and use of strategies for secure communication while third parties known as adversaries are present It is concerned with the development and analysis of protocols that prohibit hostile third parties from accessing information exchanged between two entities thereby adhering to different elements of information security A scenario in which a message or data shared between two parties cannot be accessed by an adversary is referred to as secure communication In cryptography an adversary is a hostile entity that seeks to obtain valuable information or data by compromising information security principles

Cryptography And Network Security Principles And Practices William Stallings,2004

Cryptography and Network Security Atul Kahate,2003

Cryptography and network security William Stallings,1998

Cryptography And Network Security (Sie) Forouzan,2008

Cryptography And Network Security : Principles And Practice, 3/e William Stallings,2003

Cryptography and Network Security a Practical Approach K.Haribsakar,

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management see this ... May 14, 2017 — Key fundamentals include a deep understanding of your objectives, a clear vision of where you want to go, the ability to assess your current ... Strategic Management Skills - ReadyToManage Mar 8, 2013 — Strategic Management Skills · Big picture thinking · Listening skills · Commercial acumen · Planning and Organizing · Collaboration ability. What are the strategic skills ? Feb 21, 2023 — These skills involve the ability to think critically, analyze data, and make decisions based on a clear understanding of the business landscape, ... 6 Skills of Strategic Planning Skills Required and Utilized in Strategic Planning · Development and Marketing Skills · Research, Analytical and Critical Thinking Skills · Information Systems ... 6 Skills You Need to Become A Strategic Leader | TSI Jun 7, 2021 — 1. The Conversation Guide - Building space for deeper and focused conversations · 2. The Questioner - Framing appreciative questions · 3. The ... 4 Ways to Develop Your Strategic Thinking Skills | HBS Online Sep 10, 2020 — Strategic thinking skills are any skills that enable you to use critical thinking to solve complex problems and plan for the future. These ...