CRYPTOGRAPHY AND NETWORK SECURITY

BCS-   **(3-0-1) Credit-4**

Module I   (12 LECTURES)

Introduction to the Concepts of Security: The need for security, Security Approaches, Principles of Security, Types of Attacks. Cryptographic Techniques: Plain Text and Cipher Text, Substitution Techniques, Transposition Techniques, Encryption and Decryption, Symmetric and Asymmetric Key Cryptography, Steganography, Key Range and Key Size, Possible Types of Attacks.

Module II   (8 LECTURES)

Computer-based Symmetric Key Cryptographic Algorithms: Algorithm Types and Modes, An overview of Symmetric Key Cryptography, DES, International Data Encryption Algorithm (IDEA), RC5, Blowfish, AES, Differential and Linear Cryptanalysis.

Module III   (8 LECTURES)

Computer-based Asymmetric Key Cryptography: Brief History of Asymmetric Key Cryptography, An overview of Asymmetric Key Cryptography, The RSA Algorithm, Symmetric and Asymmetric Key Cryptography Together, Digital Signatures, Knapsack Algorithm, Some other Algorithms.

Module IV   (12 LECTURES)

Public Key Infrastructure: Digital Certificates, Private Key Management, The PKIX Model, Public Key Cryptography Standards, XML, PKI and Security. Internet Security Protocols: Basic Concepts, Secure Socket Layer, SHTTP, Time Stamping Protocol, Secure Electronic Transaction, SSL versus SET, 3-D Secure Protocol, Electronic Money, E-mail Security, Wireless Application Protocol (WAP) Security, Security in GSM.

Text Books:

1. Cryptography and Network Security – by Atul Kahate – TMH.
2. Data Communications and Networking- by Behourz A Forouzan

Reference Book:

1. Cyber Security Operations Handbook – by J.W. Rittiaghouse and William M.Hancok – Elseviers.

Cryptography And Network Security Lecture Notes

Joacim Rocklöv

Cryptography And Network Security Lecture Notes:

   Applied Cryptography and Network Security ,2005   **Protocols for Authentication and Key Establishment** Colin Boyd,Anish Mathuria,Douglas Stebila,2019-11-06 This book is the most comprehensive and integrated treatment of the protocols required for authentication and key establishment In a clear uniform presentation the authors classify most protocols in terms of their properties and resource requirements and describe all the main attack types so the reader can quickly evaluate protocols for particular applications In this edition the authors introduced new chapters and updated the text throughout in response to new developments and updated standards The first chapter an introduction to authentication and key establishment provides the necessary background on cryptography attack scenarios and protocol goals A new chapter computational security models describes computational models for key exchange and authentication and will help readers understand what a computational proof provides and how to compare the different computational models in use In the subsequent chapters the authors explain protocols that use shared key cryptography authentication and key transport using public key cryptography key agreement protocols the Transport Layer Security protocol identity based key agreement password based protocols and group key establishment The book is a suitable graduate level introduction and a reference and overview for researchers and practitioners with 225 concrete protocols described In the appendices the authors list and summarize the relevant standards linking them to the main book text when appropriate and they offer a short tutorial on how to build a key establishment protocol The book also includes a list of protocols a list of attacks a summary of the notation used in the book general and protocol indexes and an extensive bibliography   **Identity-based Cryptography** Marc Joye,Gregory Neven,2009 What if your public key was not some random looking bit string but simply your name or email address This idea put forward by Adi Shamir back in 1984 still keeps cryptographers busy today Some cryptographic primitives like signatures were easily adapted to this new identity based setting but for others including encryption it was not until recently that the first practical solutions were found The advent of pairings to cryptography caused a boom in the current state of the art is this active subfield from the mathematical background of pairing and the main cryptographic constructions to software and hardware implementation issues This volume bundles fourteen contributed chapters written by experts in the field and is suitable for a wide audience of scientists grad students and implementors alike Book Jacket

   Cybercryptography: Applicable Cryptography for Cyberspace Security Song Y. Yan,2018-12-04 This book provides the basic theory techniques and algorithms of modern cryptography that are applicable to network and cyberspace security It consists of the following nine main chapters Chapter 1 provides the basic concepts and ideas of cyberspace and cyberspace security Chapters 2 and 3 provide an introduction to mathematical and computational preliminaries respectively Chapters 4 discusses the basic ideas and system of secret key cryptography whereas Chapters 5 6 and 7 discuss the basic ideas and systems of public key cryptography based on integer factorization discrete logarithms and elliptic curves respectively

Quantum safe cryptography is presented in Chapter 8 and offensive cryptography particularly cryptovirology is covered in Chapter 9 This book can be used as a secondary text for final year undergraduate students and first year postgraduate students for courses in Computer Network and Cyberspace Security Researchers and practitioners working in cyberspace security and network security will also find this book useful as a reference   *Guide to Pairing-Based Cryptography* Nadia El Mrabet,Marc Joye,2017-01-06 This book is devoted to efficient pairing computations and implementations useful tools for cryptographers working on topics like identity based cryptography and the simplification of existing protocols like signature schemes As well as exploring the basic mathematical background of finite fields and elliptic curves Guide to Pairing Based Cryptography offers an overview of the most recent developments in optimizations for pairing implementation Each chapter includes a presentation of the problem it discusses the mathematical formulation a discussion of implementation issues solutions accompanied by code or pseudocode several numerical results and references to further reading and notes Intended as a self contained handbook this book is an invaluable resource for computer scientists applied mathematicians and security professionals interested in cryptography   Third International Congress on Information and Communication Technology Xin-She Yang,Simon Sherratt,Nilanjan Dey,Amit Joshi,2018-09-28 The book includes selected high quality research papers presented at the Third International Congress on Information and Communication Technology held at Brunel University London on February 27 28 2018 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of Things IOT and e mining Written by experts and researchers working on ICT the book is suitable for new researchers involved in advanced studies   **Cryptography and Network Security** William Stallings,2006 In this age of viruses and hackers of electronic eavesdropping and electronic fraud security is paramount This solid up to date tutorial is a comprehensive treatment of cryptography and network security is ideal for self study Explores the basic issues to be addressed by a network security capability through a tutorial and survey of cryptography and network security technology Examines the practice of network security via practical applications that have been implemented and are in use today Provides a simplified AES Advanced Encryption Standard that enables readers to grasp the essentials of AES more easily Features block cipher modes of operation including the CMAC mode for authentication and the CCM mode for authenticated encryption Includes an expanded updated treatment of intruders and malicious software A useful reference for system engineers programmers system managers network managers product marketing personnel and system support specialists   *Proceedings of the 10th ACM Conference on Computer and Communications Security* Vijay Atluri,Peng Liu,2003   **Proceedings of the ... Annual ACM Symposium on Principles of Distributed Computing** ,2005   **ACM Conference on Computer and Communications Security** ,2005   Advances in Cryptology ,2005   *Topics in Cryptology, CT-RSA ...* ,2006   Mechatronics and Intelligent Materials II Ran Chen,Wen Pei Sung,2012-03-15 Selected peer

reviewed papers from the 2012 International conference on Mechatronics and Intelligent Materials MIM 2012 May 18 19 2012 GuiLin China   *Information & security* ,2004   **Information Security Applications** ,2004   **International Journal of Computer Systems Science & Engineering** ,2005   **Information Security and Cryptology** ,2004   Information Security and Privacy ,2005   *American Book Publishing Record* ,2007   **Theory of Cryptography** ,2006

This book delves into Cryptography And Network Security Lecture Notes. Cryptography And Network Security Lecture Notes is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Cryptography And Network Security Lecture Notes, encompassing both the fundamentals and more intricate discussions.

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   - Chapter 2: Essential Elements of Cryptography And Network Security Lecture Notes
   - Chapter 3: Cryptography And Network Security Lecture Notes in Everyday Life
   - Chapter 4: Cryptography And Network Security Lecture Notes in Specific Contexts
   - Chapter 5: Conclusion

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4. In chapter 3, the author will examine the practical applications of Cryptography And Network Security Lecture Notes in daily life. The third chapter will showcase real-world examples of how Cryptography And Network Security Lecture Notes can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Cryptography And Network Security Lecture Notes in specific contexts. This chapter will explore how Cryptography And Network Security Lecture Notes is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Cryptography And Network Security Lecture Notes. The final chapter will summarize the key points that have been discussed throughout the book.
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