

Cryptography and Network Security

Chapter 4

Fifth Edition
by William Stallings
Lecture slides by Lawrie Brown
(with edits by RHB)

Outline

- will consider:
 - divisibility & GCD
 - modular arithmetic with integers
 - concept of groups, rings, fields
 - Euclid's algorithm for GCD & Inverse
 - finite fields $GF(p)$
 - polynomial arithmetic in general and in $GF(2^n)$

Chapter 4 – Basic Concepts in Number Theory and Finite Fields

The next morning at daybreak, Star flew indoors, seemingly keen for a lesson. I said, "Tap eight." She did a brilliant exhibition, first tapping it in 4, 4, then giving me a hasty glance and doing it in 2, 2, 2, 2, before coming for her nut. It is astonishing that Star learned to count up to 8 with no difficulty, and of her own accord discovered that each number could be given with various different divisions, this leaving no doubt that she was consciously thinking each number. In fact, she did mental arithmetic, although unable, like humans, to name the numbers. But she learned to recognize their spoken names almost immediately and was able to remember the sounds of the names. Star is unique as a wild bird, who of her own free will pursued the science of numbers with keen interest and astonishing intelligence.

— *Living with Birds*, Len Howard

Introduction

- will build up to introduction of finite fields
- of increasing importance in cryptography
 - AES, Elliptic Curve, IDEA, Public Key
- concern operations on "numbers"
 - where what constitutes a "number" and the type of operations varies considerably
- start with basic number theory concepts

Cryptography And Chapter 4 Basic Concepts In Number

Darril Gibson



Cryptography And Chapter 4 Basic Concepts In Number:

Cryptography and Network Security William Stallings, 2011 This text provides a practical survey of both the principles and practice of cryptography and network security

Mastering Blockchain Imran Bashir, 2020-08-31 Develop a deeper understanding of what's under the hood of blockchain with this technical reference guide on one of the most disruptive modern technologies Key Features Updated with four new chapters on consensus algorithms Ethereum 2.0 tokenization and enterprise blockchains Learn about key elements of blockchain theory such as decentralization cryptography and consensus protocols Get to grips with Solidity Web3 cryptocurrencies smart contract development and solve scalability security and privacy issues Discover the architecture of different distributed ledger platforms including Ethereum Bitcoin Hyperledger Fabric Hyperledger Sawtooth Corda and Quorum Book Description Blockchain is the backbone of cryptocurrencies with applications in finance government media and other industries With a legacy of providing technologists with executable insights this new edition of Mastering Blockchain is thoroughly revised and updated to the latest blockchain research with four new chapters on consensus algorithms Serenity the update that will introduce Ethereum 2.0 tokenization and enterprise blockchains This book covers the basics including blockchain's technical underpinnings cryptography and consensus protocols It also provides you with expert knowledge on decentralization decentralized application development on Ethereum Bitcoin alternative coins smart contracts alternative blockchains and Hyperledger Further you will explore blockchain solutions beyond cryptocurrencies such as the Internet of Things with blockchain enterprise blockchains tokenization using blockchain and consider the future scope of this fascinating and disruptive technology By the end of this book you will have gained a thorough comprehension of the various facets of blockchain and understand their potential in diverse real world scenarios What you will learn Grasp the mechanisms behind Bitcoin Ethereum and alternative cryptocurrencies Understand cryptography and its usage in blockchain Understand the theoretical foundations of smart contracts Develop decentralized applications using Solidity Remix Truffle Ganache and Drizzle Identify and examine applications of blockchain beyond cryptocurrencies Understand the architecture and development of Ethereum 2.0 Explore research topics and the future scope of blockchain Who this book is for If you are a technologist business executive a student or an enthusiast who wishes to explore the fascinating world of blockchain technology smart contracts decentralized applications and distributed systems then this book is for you Basic familiarity with a beginner level command of a programming language would be a plus

Introduction to Network Security Jie Wang, Zachary A. Kissel, 2015-06-23 Introductory textbook in the important area of network security for undergraduate and graduate students Comprehensively covers fundamental concepts with newer topics such as electronic cash bit coin P2P SHA-3 E-voting and Zigbee security Fully updated to reflect new developments in network security Introduces a chapter on Cloud security a very popular and essential topic Uses everyday examples that most computer users experience to illustrate important principles and mechanisms Features a companion website with

Powerpoint slides for lectures and solution manuals to selected exercise problems available at <http://www.cs.uml.edu/wang>

NetSec *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

Security in Fixed and Wireless Networks Guenter Schaefer, Michael Rossberg, 2016-08-19 Introduces aspects on security threats and their countermeasures in both fixed and wireless networks advising on how countermeasures can provide secure communication infrastructures Enables the reader to understand the risks of inappropriate network security what mechanisms and protocols can be deployed to counter these risks and how these mechanisms and protocols work

SSCP Systems Security Certified Practitioner All-in-One Exam Guide, Second Edition Darril Gibson, 2015-10-16 This fully updated integrated self study system offers complete coverage of the revised 2015 Systems Security Certified Practitioner SSCP exam domains Thoroughly revised for the April 2015 exam update SSCP Systems Security Certified Practitioner All in One Exam Guide Second Edition enables you to take the exam with complete confidence To aid in self study each chapter includes Exam Tips that highlight key exam information chapter summaries that reinforce salient points and end of chapter questions that are an accurate reflection of the content and question format of the real exam Beyond exam prep the practical examples and real world insights offered in this guide make it an ideal on the job reference for IT security professionals You will learn the security concepts tools and procedures needed to employ and enforce solid security policies and effectively react to security incidents Features 100% coverage of the revised SSCP Common Body of Knowledge CBK effective April 2015 Electronic content contains two full length customizable practice exams in the Total Tester exam engine Written by a bestselling IT security certification and training expert

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SSCP Systems Security Certified Practitioner All-in-One Exam Guide Darril Gibson, 2011-12-08 This authoritative exam guide prepares readers to take the first step towards the coveted CISSP certification the SSCP Systems Security Certified Practitioner credential

Computer Security and the Internet Paul C. van Oorschot, 2021-10-13 This book provides a

concise yet comprehensive overview of computer and Internet security suitable for a one term introductory course for junior senior undergrad or first year graduate students It is also suitable for self study by anyone seeking a solid footing in security including software developers and computing professionals technical managers and government staff An overriding focus is on brevity without sacrificing breadth of core topics or technical detail within them The aim is to enable a broad understanding in roughly 350 pages Further prioritization is supported by designating as optional selected content within this Fundamental academic concepts are reinforced by specifics and examples and related to applied problems and real world incidents The first chapter provides a gentle overview and 20 design principles for security The ten chapters that follow provide a framework for understanding computer and Internet security They regularly refer back to the principles with supporting examples These principles are the conceptual counterparts of security related error patterns that have been recurring in software and system designs for over 50 years The book is elementary in that it assumes no background in security but unlike soft high level texts it does not avoid low level details instead it selectively dives into fine points for exemplary topics to concretely illustrate concepts and principles The book is rigorous in the sense of being technically sound but avoids both mathematical proofs and lengthy source code examples that typically make books inaccessible to general audiences Knowledge of elementary operating system and networking concepts is helpful but review sections summarize the essential background For graduate students inline exercises and supplemental references provided in per chapter endnotes provide a bridge to further topics and a springboard to the research literature for those in industry and government pointers are provided to helpful surveys and relevant standards e g documents from the Internet Engineering Task Force IETF and the U S National Institute of Standards and Technology

Multimedia Encryption and Watermarking Borko Furht,Edin Muharemagic,Daniel Socek,2006-10-03 Multimedia Encryption and Watermarking presents a comprehensive survey of contemporary multimedia encryption and watermarking techniques which enable a secure exchange of multimedia intellectual property Part I Digital Rights Management DRM for Multimedia introduces DRM concepts and models for multimedia content protection and presents the key players Part II Multimedia Cryptography provides an overview of modern cryptography with the focus on modern image video speech and audio encryption techniques This book also provides an advanced concept of visual and audio sharing techniques Part III Digital Watermarking introduces the concept of watermarking for multimedia classifies watermarking applications and evaluates various multimedia watermarking concepts and techniques including digital watermarking techniques for binary images Multimedia Encryption and Watermarking is designed for researchers and practitioners as well as scientists and engineers who design and develop systems for the protection of digital multimedia content This volume is also suitable as a textbook for graduate courses on multimedia security

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framework A variety of mathematical topics that are germane to cryptology e g modular arithmetic Boolean functions complexity theory etc are developed but they do not overshadow the main focus of the text Unlike other texts in this field Cryptology brings students directly to concepts of classical substitutions and transpositions and issues in modern cryptographic methods *Secure Electronic Commerce* Warwick Ford, Michael S. Baum, 2001 Newcomers will appreciate the clear explanations of the origins and development of secure e commerce More experienced developers can move straight to the detailed technical material Anyone who is involved in e commerce design management or operation will benefit from *Secure Electronic Commerce* BOOK JACKET **PRO JAVA SECUR**, GARMS, Daniel Somerfield, 2001-05-24 As Java emerges as the standard platform for Internet programming the ability to securely move its code around is imperative for application security in large scale e commerce and e business sites many of which have suffered a recent spate of hacker attacks Security is one of the key features of the Java language architecture giving its users confidence in downloading code across networks *Apache Security* Ivan Ristic, 2005 The complete guide to securing your Apache web server Cover **IETE Technical Review** , 1994

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Table of Contents Cryptography And Chapter 4 Basic Concepts In Number

1. Understanding the eBook Cryptography And Chapter 4 Basic Concepts In Number
 - The Rise of Digital Reading Cryptography And Chapter 4 Basic Concepts In Number
 - Advantages of eBooks Over Traditional Books
2. Identifying Cryptography And Chapter 4 Basic Concepts In Number
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cryptography And Chapter 4 Basic Concepts In Number
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cryptography And Chapter 4 Basic Concepts In Number
 - Personalized Recommendations
 - Cryptography And Chapter 4 Basic Concepts In Number User Reviews and Ratings
 - Cryptography And Chapter 4 Basic Concepts In Number and Bestseller Lists
5. Accessing Cryptography And Chapter 4 Basic Concepts In Number Free and Paid eBooks
 - Cryptography And Chapter 4 Basic Concepts In Number Public Domain eBooks
 - Cryptography And Chapter 4 Basic Concepts In Number eBook Subscription Services
 - Cryptography And Chapter 4 Basic Concepts In Number Budget-Friendly Options
6. Navigating Cryptography And Chapter 4 Basic Concepts In Number eBook Formats
 - ePub, PDF, MOBI, and More
 - Cryptography And Chapter 4 Basic Concepts In Number Compatibility with Devices
 - Cryptography And Chapter 4 Basic Concepts In Number Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cryptography And Chapter 4 Basic Concepts In Number
 - Highlighting and Note-Taking Cryptography And Chapter 4 Basic Concepts In Number
 - Interactive Elements Cryptography And Chapter 4 Basic Concepts In Number

8. Staying Engaged with Cryptography And Chapter 4 Basic Concepts In Number
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cryptography And Chapter 4 Basic Concepts In Number
9. Balancing eBooks and Physical Books Cryptography And Chapter 4 Basic Concepts In Number
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cryptography And Chapter 4 Basic Concepts In Number
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Cryptography And Chapter 4 Basic Concepts In Number
 - Setting Reading Goals Cryptography And Chapter 4 Basic Concepts In Number
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cryptography And Chapter 4 Basic Concepts In Number
 - Fact-Checking eBook Content of Cryptography And Chapter 4 Basic Concepts In Number
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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