

# 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

**Wm. Arthur Conklin, Greg White, Chuck  
Cothren, Roger L. Davis, Dwayne  
Williams**

## **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>

**Modern Cryptography: Applied Mathematics for Encryption and Information Security** Chuck Easttom, 2015-10-09 This comprehensive guide to modern data encryption makes cryptography accessible to information security professionals of all skill levels with no math expertise required. Cryptography underpins today's cyber security, however few information security professionals have a solid understanding of these encryption methods due to their complex mathematical makeup. *Modern Cryptography: Applied Mathematics for Encryption and Information Security* leads readers through all aspects of the field, providing a comprehensive overview of cryptography and practical instruction on the latest encryption methods. The book begins with an overview of the evolution of cryptography and moves on to modern protocols with a discussion of hashes, cryptanalysis, and steganography. From there, seasoned security author Chuck Easttom provides readers with the complete picture: full explanations of real-world applications for cryptography along with detailed implementation instructions. Unlike similar titles on the topic, this reference assumes no mathematical expertise; the reader will be exposed to only the formulas and equations needed to master the art of cryptography. Concisely explains complex formulas and equations and makes the math easy. Teaches even the information security novice critical encryption skills. Written by a globally recognized security expert who has taught cryptography to various government and civilian groups and organizations around the world.

**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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**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

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**Digital Forensics, Investigation, and Response 5e** Chuck Easttom, 2026-02-18 Digital Forensics Investigation and Response is a textbook and lab package that offers an accessible introduction to forensic procedures and principles a survey of digital forensic disciplines and an opportunity to apply these lessons in hands on virtual labs Provided by publisher

**The Mathematical Gazette**, 2006 *Discrete Mathematics with Combinatorics* James A. Anderson, 2001 This carefully organized very readable book covers every essential topic in discrete mathematics in a logical fashion Placing each topic in context it covers concepts associated with discrete mathematical systems that have applications in computer science engineering and mathematics The author introduces more basic concepts at the freshman level than are found in other books in a simple accessible form Introductory material is balanced with extensive coverage of graphs trees recursion algebra theory of computing and combinatorics Extensive examples throughout the text reinforce concepts More combinatorics algebraic structures than in most books Detailed discussion of and strong emphasis on proofs Extensive in depth presentation of topics Large selection of applied and computational problems ranging from the elementary to the more advanced More topics in probability and more statistical interpretations than other texts Comprehensive discussion of topics such as finite state machines automata and languages Earlier introduction of matrices

and relations Boolean algebras and circuits than most texts Includes algorithms for many constructive tasks that occur in discrete systems

**Reviews in Number Theory, 1984-96**, 1997 These six volumes include approximately 20 000 reviews of items in number theory that appeared in Mathematical Reviews between 1984 and 1996 This is the third such set of volumes in number theory The first was edited by W J LeVeque and included reviews from 1940 1972 the second was edited by R K Guy and appeared in 1984

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*Cybersecurity- A Complete Overview* Code Xtracts, 2023-06-11 Cybersecurity A Complete Overview for Engineering BCA abd BSC Computer Courses BCA Semester Engineering Semester BSC Computer Semester

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

Principles of Computer Security, Fourth Edition Wm. Arthur Conklin, Greg White, Chuck Cothren, Roger L. Davis, Dwayne Williams, 2016-01-01 Written by leading information security educators this fully revised full color computer security textbook covers CompTIA's fastest growing credential CompTIA Security Principles of Computer Security Fourth Edition is a student tested introductory computer security textbook that provides comprehensive coverage of computer and network security fundamentals in an engaging and dynamic full color design In addition to teaching key computer security concepts the textbook also fully prepares you for CompTIA Security exam SY0 401 with 100% coverage of all exam objectives Each chapter begins with a list of topics to be covered and features sidebar exam and tech tips a chapter summary and an end of chapter assessment section that includes key term multiple choice and essay quizzes as well as lab projects Electronic content includes CompTIA Security practice exam questions and a PDF copy of the book Key features CompTIA Approved Quality Content CAQC Electronic content features two simulated practice exams in the Total Tester exam engine and a PDF eBook Supplemented by Principles of Computer Security Lab Manual Fourth Edition available separately White and Conklin are two of the most well respected computer security educators in higher education Instructor resource materials for adopting instructors include Instructor Manual PowerPoint slides featuring artwork from the book and a test bank of questions for use as quizzes or exams Answers to the end of chapter sections are not included in the book and are only available to adopting instructors Learn how to Ensure operational organizational and physical security Use cryptography and public key infrastructures PKIs Secure remote access wireless networks and virtual private networks VPNs Authenticate users and lock down mobile devices Harden network devices operating systems and applications Prevent network attacks such as denial of service spoofing hijacking and password guessing Combat viruses worms Trojan horses and rootkits Manage e mail instant messaging and web security Explore secure software development requirements Implement disaster recovery and business continuity measures Handle computer forensics and incident response Understand legal ethical and

privacy issues      *Firewalls* Marcus Goncalves,2000 The CD ROM alone will save you both time and expense in tracking and downloading all the software available on the Web You ll find countless product demos and evaluations from major vendors

BOOK JACKET      **Firewalls Complete** Marcus Goncalves,1998 Introduction TCP IP and the need for security firewalls basic connectivity putting it together firewall resource guide      **Invitation to Cryptology** Thomas H. Barr,2002 For a one semester undergraduate level course in Cryptology Mathematics or Computer Science Designed for either the intelligent freshman good at math or for a low level junior year first course Cryptology introduces a wide range of up to date cryptological concepts along with the mathematical ideas that are behind them The new and old are organized around a historical 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      Computer Security and the Internet Paul C. van Oorschot,2020-04-04 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

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