# 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")

## 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 setonishing that Stal 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 learning no doubt that she was consciously thinking each number. In fact, she did mental anthinetic, 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**

**Ivan Ristic** 

#### **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

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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 SSCP Systems Security Certified Practitioner All-in-One Exam Guide, Third Edition Darril Gibson, 2018-10-26 This fully updated study guide offers complete coverage of every topic on the latest version of the SSCP examTake the 2018

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