Cryptography and Network Security Chapter 4

Fifth Edition

by William Stallings

Lecture slides by Lawrie Brown

(with edits by RHB)

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

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(2ⁿ)

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

Tobias Bleicker

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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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 *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 edition of the challenging Systems Security Certified Practitioner SSCP exam with confidence using the detailed information contained in this highly effective self study guide The book provides 100% coverage of the revised SSCP Common Body of Knowledge CBK as developed by the International Information Systems Security Certification Consortium ISC 2 Written by bestselling IT security certification author and trainer Darril Gibson SSCP Systems Security Certified Practitioner All in One Exam Guide Third Edition clearly explains all exam domains You will get lists of topics covered at the beginning of each chapter exam tips practice exam questions and in depth answer explanations Designed to help you pass the exam with ease SSCP Systems Security Certified Practitioner All in One Exam Guide Third Edition also serves as an essential on the job reference Features 100% coverage of every objective on the SSCP exam Electronic content includes 250 practice questions and a secured book PDF Written by an industry recognized expert and experienced trainer **Digital Forensics, Investigation, and Response 5e** Chuck Easttom,2026-02-18 Digital Forensics Invesstigation 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 *Becoming a Salesforce Certified Technical Architect* Tameem Bahri,2023-06-30 Gain practical experience designing and building high performance secure and scalable Salesforce solutions using real world scenarios Purchase of the book unlocks access to web based exam prep resources like flashcards and a free eBook PDF Key Features Master each knowledge domain by applying key concepts to a real world scenario Put all the skills covered in the book into action with two full mock scenarios Gain access to additional online assets including flashcards and exam tips Book DescriptionThis book is a complete guide to learning essential architectural concepts that ll enable you to deliver secure high performant Salesforce solutions and pass the Salesforce CTA review board exam with confidence This second edition comes with updated content additional supporting material such as cheat sheets and detailed practical examples and helps you learn key soft skills to craft a winning presentation You ll begin by reviewing vital architectural concepts needed to create a scalable end to end Salesforce solution Next you ll find out how to identify requirements and break down a problem into smaller more solvable parts As you advance you ll gain practical experience in managing design decisions and defending them using real world scenarios The book also helps familiarize you with the correct methodology to structure your solution presentation and the necessary supporting artifacts Finally you ll practice providing solutions for two full hypothetical scenarios and structuring your playback step by step By the end of this Salesforce book you ll be able to design a highly scalable Salesforce solution and create suitable material to comfortably explain the end to end solution to the CTA review board and potentially your customer and have a higher chance of passing What you will learn Explore core architectural concepts essential for any Salesforce architect Understand Salesforce knowledge domains using practical examples Practice creating solutions using scenarios focusing on particular knowledge domains Discover key artifacts needed to document and explain an end to end solution Apply data life cycle management effectively in the Salesforce ecosystem Design appropriate enterprise integration interfaces to build your connected solution Know what to expect on the day of the review board along with valuable tips and tricks Who this book is for This book is for Salesforce architects who want to design secure performant and scalable technical solutions for their organizations and ultimately become Salesforce Certified Technical Architects A solid understanding of the Salesforce platform is required ideally combined with three to five years of practical experience as an application architect system architect enterprise architect or solution architect *Cybersecurity- A Complete Overciew* Code Xtracts,2023-06-11 Cybersecurity A Complete Overciew 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

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