

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

Peipei Pang



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