



# Introduction to Cryptography with Coding Theory

*Wade Trappe , Lawrence C. Washington*

[Download now](#)

[Read Online](#) 

# Introduction to Cryptography with Coding Theory

Wade Trappe , Lawrence C. Washington

## Introduction to Cryptography with Coding Theory Wade Trappe , Lawrence C. Washington

With its conversational tone and practical focus, this text mixes applied and theoretical aspects for a solid introduction to cryptography and security, including the latest significant advancements in the field. Assumes a minimal background. The level of math sophistication is equivalent to a course in linear algebra. Presents applications and protocols where cryptographic primitives are used in practice, such as SET and SSL. Provides a detailed explanation of AES, which has replaced Feistel-based ciphers (DES) as the standard block cipher algorithm. Includes expanded discussions of block ciphers, hash functions, and multicollisions, plus additional attacks on RSA to make readers aware of the strengths and shortcomings of this popular scheme. For engineers interested in learning more about cryptography.

## Introduction to Cryptography with Coding Theory Details

Date : Published July 1st 2005 by Pearson Prentice Hall (first published September 21st 2001)

ISBN : 9780131862395

Author : Wade Trappe , Lawrence C. Washington

Format : Hardcover 577 pages

Genre : Reference, Computer Science, Informatics, Textbooks, Science

 [Download Introduction to Cryptography with Coding Theory ...pdf](#)

 [Read Online Introduction to Cryptography with Coding Theory ...pdf](#)

**Download and Read Free Online Introduction to Cryptography with Coding Theory Wade Trappe , Lawrence C. Washington**

---

## From Reader Review Introduction to Cryptography with Coding Theory for online ebook

### Zahra says

i finished it right now but i need read it again for exam

---

### Rod Hilton says

Introduction to Cryptography with Coding Theory is a very math-heavy, but excellent and readable text on Cryptography.

As compared to the standard text, Applied Cryptography by Bruce Schneier, ItCwCT is very light on implementation details and code examples, and much heavier on the fundamental mathematical basis for various encryption schemes.

Normally a book that skews this heavy toward the theory is one I won't like, but ItCwCT avoids the mistake of many other theoretical textbooks by providing many examples of applying the theory (it just does so in terms of math, not code), and is extremely readable and well paced. Very rarely did I feel confused by the text, and overall I think the ideas are presented very well.

ItCwCT is wider in scope than Schneier's book as well. Applied Cryptography deals with the basics of cryptosystems such as DES and RSA, then gets right into implementations and source code. ItCwCT establishes the foundational basis of the text early on with a primer on essential number theory, talks about some simple cryptosystems such as substitution ciphers and block ciphers, then goes deep on topics like AES, DES, RSA, Signatures, Digital Cash, Secret Sharing, Games, Key exchanging, Information Theory, Elliptic Curve Cryptosystems (not covered at all in Applied Cryptography), Error Correction Codes, and Quantum Cryptography. Most of these topics get a brief mention, if any at all, in Schneier's book, and ItCwCT goes very deep in all of these topics.

I think Applied Cryptography works well as an introduction to cryptography, maybe for Undergrads, but ItCwCT works much better as an advanced, graduate text, while remaining readable and understandable even for undergrads.

---

### Ana Man says

Good Boooooook

---

### Andrew says

Used as a textbook for a cryptography class. Great introduction to number theory and basic cryptographic concepts.

