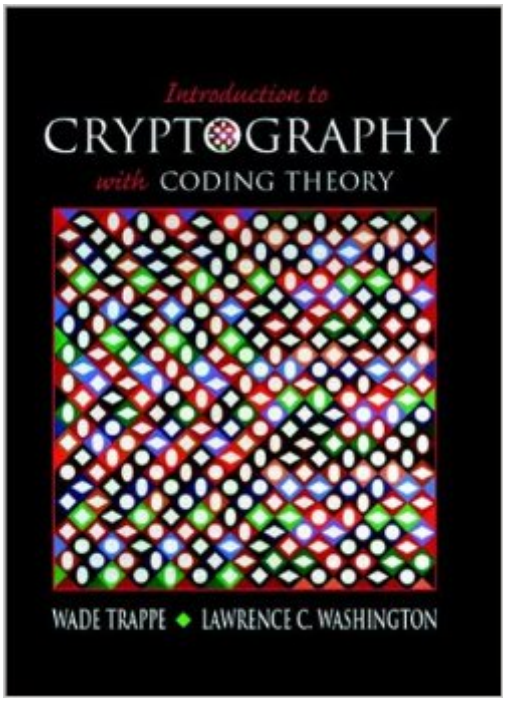
The book was found

Introduction To Cryptography With Coding Theory



PDF
Adobe
DOWNLOAD EBOOK

Synopsis

This book assumes a minimal background in programming and a level of math sophistication equivalent to a course in linear algebra. It provides a flexible organization, as each chapter is modular and can be covered in any order. Using Mathematica, Maple, and MATLAB, computer examples included in an Appendix explain how to do computation and demonstrate important concepts. A full chapter on error correcting codes introduces the basic elements of coding theory. Other topics covered: Classical cryptosystems, basic number theory, the data encryption standard, AES: Rijndael, the RSA algorithm, discrete logarithms, digital signatures, e-commerce and digital cash, secret sharing schemes, games, zero knowledge techniques, key establishment protocols, information theory, elliptic curves, error correcting codes, quantum cryptography. For professionals in cryptography and network security.

Book Information

Hardcover: 504 pages
Publisher: Prentice Hall; 1st edition (January 15, 2002)
Language: English
ISBN-10: 0130618144
ISBN-13: 978-0130618146
Product Dimensions: 7.2 x 0.9 x 9.6 inches
Shipping Weight: 2 pounds
Average Customer Review: 3.9 out of 5 starsÂ Â See all reviewsÂ (18 customer reviews)
Best Sellers Rank: #1,126,131 in Books (See Top 100 in Books) #15 inÂ Books > Computers & Technology > Programming > Software Design, Testing & Engineering > Coding Theory #239 inÂ Books > Computers & Technology > Security & Encryption > Cryptography #546 inÂ Books > Computers & Technology > Computer Science > Systems Analysis & Design

Customer Reviews

The book presents modern cryptography in a way that anyone can understand and makes even the most difficult of subjects easy to learn. It does present in depth math analysis of various ciphers, so read it thoroughly is a must!

This an excellant reference text-book for cryptography students and teachers, and could be by far the most comprehensive introductory level cryptography text-book. A welcome addition for every math/computer-science major’s personal library.Nema

This book may be a good reference--maybe--, but there tends to be a lot of glossing over, with core concepts of complex things being left unexplained. They’re probably obvious to someone more versed in the field, but for an "Introduction" book I’d hope for a bit more.On the other hand, certain parts of this book were quite solid. Just don’t expect to use it as your only reference.

Hi. This is a very good book for university studies or also for personal use too. Easy to read and understand. There are few mathematical details (this is a negative feature) but it explains very well all arguments. The only really negative thing is the cost, a little much ...Otherwise, i suggest you this book.

Trappe and Washington give us a very up to date education in cryptography, circa 2005. The discourse is for a sophisticated maths student who, however, need never have encountered cryptography before. The level of mathematical treatment is good and rigourous. With theorems stated and proved at a level that should satisfy even a picky mathematician.The recent nature of the book is reflected in several places. Notably where it explains the Advanced Encryption Standard, or Rijndael. This is significant because it is endorsed by the US National Institute of Standards and Technology as the replacement for DES, in such contexts as electronic commerce. (DES is also covered by the book.)Interestingly, the authors offer a short chapter on digital cash. A fascinating look at a possible future direction of a (physically) cashless society. Other texts on cryptography rarely cover the topic, so it’s good to see it here. Yes, the first implementations of digital cash largely died in the dot com crash. But the idea lives on, and may yet take fruit. It has solid intellectual foundations, as shown by the book.Then there is an even more speculative chapter on quantum cryptography. Radically different from the symmetric and public key cryptosystems described in the rest of the book. Who knows how quantum cryptography will turn out? Some very hard physical problems need to be solved.

I’ve read (or skimmed, as the case may be) some other writings on cryptography and none of them are really as clear as Trappe and Washington’s book. Applied Cryptography comes somewhat close, but doesn’t include enough math. Intro. to Cryptography with Coding Theory comes as close to the right balance between math and cryptography as possible. Right now, I’m taking one of Prof. Trappe’s classes and I always am confident that if I feel I’m not going to remember the part of the lecture, I can easily refer to the book. The book is actually good enough to discourage me from

taking notes and just pay attention instead. Not only that, but the code that's provided is offered in Maple, MATLAB, and Mathematica. Could you ask for more?

Knowing very little about cryptography when I started, I found this book taught me the fundamentals of cryptography with useful examples as it walked me through the material. In addition, it was a useful reference for applying this newfound knowledge to the actual practice in use today, especically on the internet. This book is a must-have for anyone needing an understanding of cryptography.

If more mathematics textbooks were written like this one, the number of mathematicians/scientists in the world would be much greater.The book is an absolute pleasure to read. The discoursive style makes what surely can be considered as a hard subject smooth and easily flowing.The subject is very well covered and the structure of the book is just fine, even for self-study.Algorithms, encryption methods, mathematical theorems are nicely and elegantly explained and no previous knowledge is necessary in any of the fields.At the end of many explanations or proofs I found myself stunned by the brevity and beauty of the argument.I enjoyed also the nice software support and exercise coming with the books.

Download to continue reading...

Introduction to Cryptography with Coding Theory Coding Interview Ninja: 50 coding questions with Java solutions to practice for your coding interview. Cryptography and Coding (The Institute of Mathematics and its Applications Conference Series, New Series) Handbook of Coding Theory, Volume 1: Part 1 : Algebraic Coding An Introduction to Cryptography (Discrete Mathematics and Its Applications) An Introduction to Mathematical Cryptography (Undergraduate Texts in Mathematics) Cryptography: A Very Short Introduction Introduction to Coding Theory (Graduate Texts in Mathematics) Introduction to Coding Theory and Algebraic Geometry (Oberwolfach Seminars) The Scratch Coding Cards: Creative Coding Activities for Kids Learn CSS in One Day and Learn It Well (Includes HTML5): CSS for Beginners with Hands-on Project. The only book you need to start coding in CSS ... Coding Fast with Hands-On Project) (Volume 2) Java: The Ultimate Guide to Learn Java and Python Programming (Programming, Java, Database, Java for dummies, coding books, java programming) (HTML, ... Developers, Coding, CSS, PHP) (Volume 3) Java: The Simple Guide to Learn Java Programming In No Time (Programming,Database, Java for dummies, coding books, java programming) (HTML,Javascript,Programming,Developers,Coding,CSS,PHP) (Volume 2) Coding, Bugs, and Fixes (Kids Get Coding) Coding Club Python: Building Big Apps Level 3

(Coding Club, Level 3) ICD-10 Snapshot 2017 Coding Cards Psychiatry (ICD-10-CM 2017 Snapshot Coding Cards) Medical Coding Online for Step-by-Step Medical Coding 2016 Edition (Access Code, Textbook and Workbook Package), 1e ICD-10-CM 2017 Snapshot Coding Card: Ophthalmology (ICD-10-CM 2017 Snapshot Coding Cards) Medical Coding Online for Step-by-Step Medical Coding 2016 Edition (Access Code & Textbook Package), 1e Kids coding book: Memory Loss (Coding Palz computer programming for kids)

Dmca