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### ~~#1.11 Foundations of Modern~~ Cryptography

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CMPS 485: Intro to Modern Cryptography

*Lecture 1: Introduction to Cryptography*

*by Christof Paar Applied Cryptography:*

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*(3/3) This completely changed the way I*

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Basics of Cryptology – Part 3 (Modern



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Symmetric Ciphers – Stream Ciphers

(Block Ciphers) *Basics of*

*Cryptology – Part 16 (Modern*

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~~Game Theory: The Science of Decision-~~

~~Making~~ **Introduction To Modern**

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Step 1 Produce a frequency table of the

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Ciphertext characters, sorted by count. Put this next to the english text... Step 2 Build a probable key by sorting the table from step 1 by english plaintext letter, and then by selecting columns... Step 3: Ciphertext Decrypt 1 Decrypt the ciphertext with ...

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### **Exercise 1.1** Cryptography Exercises

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Crypto I - Cryptology And Data Security

Group University Of Warsaw. Lecture:

Wednesdays 14:15 - 15:45 (room 4420)

Exercises: Wednesdays 16:15 - 17:45

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(room 5870) Assessment methods and assessment criteria: there will be a final written exam consisting of two parts: the "theory" part, and the "exercises".

28.10.15 Symmetric Encryption III [ pptx , pdf ]  
04.11.15 Message Authentication and Introduction to Hash Functions [ pptx , pdf ]  
18.11.15 Hash Functions - continued [

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Exercises; 2.1: Prove that, by redefining the key space, we may assume that the key generation algorithm  $\text{Gen}$  choose a key uniformly at random from the key space,

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without changing  $\Pr[C = c | M = m]$  for any  $(m, c)$ . solution.

The encryption scheme can be described using the following diagram:

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Exercise #7 University of Amsterdam,  
Master of Logic Lecturer: Christian Scha  
ner TA: Joachim Schipper 18 October  
2011, updated: 20 October 2011 (to be  
handed in by Tuesday, 1 November 2011,  
9:00) Complementary Property of DES  
In this exercise, we show that DES has the  
complementarity property, i.e., that ...



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## **Introduction to Modern Cryptography, Exercise # 7**

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Exercises . 14. \*Post-Quantum

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Cryptography . Post-Quantum Symmetric-Key Cryptography . Grover's Algorithm and Symmetric-Key Lengths . Collision-Finding Algorithms and Hash Functions . Shor's Algorithm and its Impact on Cryptography . Post-Quantum Public-Key Encryption . Post-Quantum Signatures . Lamport's Signature Scheme . Chain-

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Let  $p$  be a prime. The set  $Z_p$

$Z_p = \{ 1, \dots, p-1 \}$  turns out to be a group under multiplication modulo  $p$ . We can find an element  $g \in Z_p$  which generates the group (that

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is,  $\{g_0, g_1, g_2, \dots, g_{p-2}\}$  is all of  $\mathbb{Z}_p^*$  and consider the function  $f: \mathbb{Z}_p^* \rightarrow \mathbb{Z}_p^*$  defined by  $f(x) = gx \pmod{p}$ .

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yet accessible treatment of this fascinating subject. The authors introduce the core principles of modern cryptography, with an emphasis on formal definitions, clear assumptions, and rigorous proofs of security.

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More generally, cryptography is about constructing and analyzing protocols that prevent third parties or the public from reading private messages; various aspects in information security such as data confidentiality, data integrity, authentication, and non-repudiation are



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central to modern cryptography. Modern cryptography exists at the ...

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Jonathan Katz, Yehuda Lindell.

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Signature Scheme Chain-Based Signatures

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