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**CHRISTOF PAAR UNDERSTANDING CRYPTOGRAPHY PDF**

*Prof. Dr.-Ing. Christof Paar has the Chair for Embedded Security at the University of Bochum, Germany, and is Adjunct Professor at the University of Massachusetts at Amherst, USA. Prof. Paar has taught cryptography for 15 years to engineering and computer science students in the US and in Europe, and he has taught many industrial practitioners at organizations such as Motorola, Philips and NASA.*

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*Understanding Cryptography by Christof Paar and Jan Pelzl ...*

*Christof's research interests include highly efficient software and hardware realizations of cryptography, physical security, penetration or real-world systems, hardware security and cryptanalytical machines; he also works on real-world applications of embedded security for the Internet of Things, e.g. in cars, consumer devices and RFIDS.*

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11/29 Chapter 3 of Understanding Cryptography by Christof Paar and Jan Pelzl • Bitwise initial permutation, then 16 rounds 1. Plaintext is split into 32-bit halves  $L_i$  and  $R_i$  2.  $R_i$  is fed into the function  $f$ , the output of which is then XORed with  $L_i$  3. Left and right half are swapped • Rounds can be expressed as: The DES Feistel Network (1) • DES structure is a Feistel network

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Christof Paar has the Chair for Embedded Security at the University of Bochum, Germany, and is Adjunct Professor at the University of Massachusetts at Amherst, USA. Prof. Paar has taught cryptography for 15 years to engineering and computer science students in the US and in Europe, and he has taught many industrial practitioners at organizations such as Motorola, Philips and NASA.

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Chapter 1 of Understanding Cryptography by Christof Paar and Jan Pelzl Symmetric Cryptography • Encryption equation • Decryption equation  $y = e K(x)$   $x = d K(y)$  • Important: The key must be transmitted via a secure channel between Alice and Bob. • The secure channel can be realized, e.g., by manually installing the key for the Wi-Fi Protected Access (WPA) protocol or a human courier.

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