

cryptography theory and practice pdf

Cryptography or cryptology (from Ancient Greek: κρυπτός, translit. kryptōs "hidden, secret"; and γραφειν, "to write", or -λογία, "study", respectively) is the practice and study of techniques for secure communication in the presence of third parties called adversaries. More generally, cryptography is about constructing and analyzing protocols that prevent ...

Cryptography - Wikipedia

Public-key cryptography, or asymmetric cryptography, is any cryptographic system that uses pairs of keys: public keys which may be disseminated widely, and private keys which are known only to the owner. This accomplishes two functions: authentication, where the public key verifies that a holder of the paired private key sent the message, and encryption, where only the paired private key ...

Public-key cryptography - Wikipedia

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with $|0\rangle$ and $|1\rangle$ two reference qubits, corresponding to two orthogonal states in a quantum system. The qubits $|0\rangle$ ($\hat{I}_x = 1, \hat{I}_z = 0$) and $|1\rangle$ ($\hat{I}_x = 0, \hat{I}_z = 1$) may be thought of as the quantum equivalent of the bits 0 and 1, respectively. For other values of \hat{I}_x and \hat{I}_z , we say that the qubit contains a superposition of $|0\rangle$ and $|1\rangle$. For instance, the qubits $2^{-1/2}(|0\rangle + |1\rangle)$...

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