

Applied Quantum Cryptography

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Quantum computers will break today's most popular public-key cryptographic systems, including RSA, DSA, and ECDSA. This book introduces the reader to the next generation of cryptographic algorithms, the systems that resist quantum-computer attacks: in particular, post-quantum public-key encryption systems and post-quantum public-key signature systems.

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quantum cryptography, the real-world implementation of this technology along with its limitations, and finally the future direction in which the quantum cryptography is headed towards. We describe results from an apparatus and protocol that is designed to implement the quantum key distribution by which two users who share no secret information

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(without having any private

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Quantum cryptography, or quantum key distribution (QKD), uses a series of photons (light particles) to transmit data from one location to another over a fiber optic cable. By comparing measurements of the properties of a fraction of these photons, the two endpoints can determine what the key is and if it is safe to use.

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Only a few years ago quantum cryptography - or better: quantum key distribution - was the domain of basic research laboratories at universities. But during the last few years things changed. QKD left the laboratories and was picked up by more practical oriented teams that worked hard to develop a practically applicable technology out of the astonishing results of basic research.

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Quantum computers will fundamentally change how organizations secure their most sensitive data. Shor's algorithm published in 1994 uses a quantum computer to factor an integer N into its prime number factors. It proves that what once took eons to compute will only take seconds. Large prime numbers that form the underpinnings of today's public-private key encryption protocols, Secure Socket Layer (SSL) and Transport Layer Security (TLS) will be easily and quickly factored by quantum ...

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Essentially, quantum cryptography is based on the usage of individual particles/waves of light (photon) and their intrinsic quantum properties to develop an unbreakable cryptosystem - essentially because it is impossible to measure the quantum state of any system without disturbing that system.

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Applied quantum cryptography. [Christian Kollmitzer; M Pivk;] -- Using the quantum properties of single photons to exchange binary keys between two partners for subsequent encryption of secret data is an absolutely novel technology.

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Quantum cryptography is a new method for secret communications offering the ultimate security assurance of the inviolability of a Law of Nature. In this paper we shall describe the theory of quantum cryptography, its potential relevance and the development of a prototype system at Los Alamos, which

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The goal of post-quantum cryptography (also known as quantum-resistant cryptography) is to develop cryptographic systems that are secure against both quantum and conventional computers and can interoperate with existing communication protocols and networks. Many post-quantum public key candidates are actively investigated the last years.

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