



Applied Quantum Cryptography

RJ Shavelson



Applied Quantum Cryptography:

Applied Quantum Cryptography Christian Kollmitzer, Mario Pivk, 2010-02-28 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 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 Quantum Key Distribution or 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 One major milestone toward a QKD technology was a large research and development project funded by the European Commission that aimed at combining quantum physics with complementary technologies that are necessary to create a technical solution electronics software and network components were added within the project SECOQC Development of a Global Network for Secure Communication based on Quantum Cryptography that teamed up all expertise on European level to get a technology for future cryptography

Applied Quantum Computing and Cryptography Marius Iulian Mihailescu, Stefania Loredana Nita, Valentina Marascu, Valentin Barna, 2025-01-14 *Applied Quantum Computing and Cryptography* Marius Mihailescu, Stefania Loredana Nita, Valentina Marascu, Valentin Barna, 2025 This book explores the dynamically developing areas of quantum computing and quantum cryptography The book offers an in depth examination of the possibilities and difficulties presented by these revolutionary technologies with the goal of connecting abstract ideas with real world applications The book is an extremely helpful resource in the context of the upcoming quantum age This highlights the importance of creating cryptographic techniques that can withstand the power of quantum computers to protect digital communications and vital infrastructures This work makes a substantial contribution to the topic of cybersecurity by doing a comprehensive analysis of classical and quantum cryptography approaches as well as actual implementations and performance evaluations The book plays a vital role in providing valuable guidance to researchers practitioners and policymakers It offers valuable insights that are necessary for effectively managing the shift towards quantum secure technology and safeguarding the future security of digital information

Applied Quantum Cryptography Douglas Romero, 2017-08-29 Quantum Key Distribution or 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 One major milestone toward a QKD technology was a large research and development project funded by the European Commission that aimed at combining quantum physics with complementary technologies that are necessary to create a technical solution electronics software and network components were added within the project SECOQC that teamed up all expertise on European level to get a technology for future cryptography

Applied Quantum Cryptanalysis Alexei Petrenko, 2023-04-13 Today we witness an explosive growth in attention to quantum computing quantum computing technologies along with artificial intelligence AI and machine learning ML technologies cloud and foggy computing as well as

technologies for collecting and streaming processing of Big Data and ETL are constantly leading the lists of end to end information technologies for the digital economy of technologically developed countries of the world One of the main reasons for this is the potential ability of quantum computers to solve some computational problems more efficiently than any of the most modern classical computers of the von Neumann architecture supercomputers The most expressive and interesting from an applied point of view examples of such problems are integer factorization effectively performed by Shor's quantum algorithm as well as record search in an unordered database effectively solved by Grover's algorithm This monograph contains the best practice for solving problems of quantum cryptanalysis to improve cyber security and resilience of the digital economy The book discusses well known and author's software implementations of promising quantum Shor algorithms Grover Simon et al Shor's algorithm provides exponential acceleration of solving factorization problems discrete logarithm problems DLPs and elliptic curve discrete logarithm problems ECDLPs The mentioned tasks are widely used in TLS SSH or IPsec cryptographic applications of Internet Intranet and IIoT IoT networks communication protocols based on Diffie Hellman key agreements dependent on the strength of the DLP or ECDLP digital signature algorithms DSA ECDSA RSA PSS public key encryption algorithms El Gamal RSA OAEP etc In other words Shor's quantum algorithm is potentially capable of violating these algorithms and with them all the mechanisms of public key cryptography deployed in cyberspace

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