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Quantum cryptography is the researchers' answer to this problem, and more specifically a certain kind of qubit—consisting of single photons: particles of light. Single photons or qubits of light ...

New invention keeps qubits of light stable at room temperature
A team of security researchers and academics has broken a core piece of internet technology. They made their work public at the 25th Chaos Communication Congress in Berlin today. The team was able ...

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Zimperium, the global leader in mobile security, has broadened its portfolio of mobile application protection solutions by acquiring whiteCryption, a leading provider of advanced application shielding ...

Zimperium Acquires Mobile Application Security Pioneer whiteCryption
Richard Feynmann noted more than once that complementarity is the central mystery that lies at the heart of quantum theory. Complementarity rules the world of the very small… the quantum world ...

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Quantum computers promise great advances in many fields—from cryptography to the simulation of protein folding. Yet, which physical system works best to build the underlying quantum bits is ...

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cryptography, neuroscience, artificial intelligence, cosmology, linguistics, and genetics. Two documentary films — Chasing Ice and For All Mankind — and a live concert marked the Fall 2017 and tenth ...

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The ultimate guide to cryptography, updated from an author team of the world's top cryptography experts. Cryptography is vital to keeping information safe, in an era when the formula to do so becomes more and more challenging. Written by a team of world-renowned cryptography experts, this essential guide is the definitive introduction to all major areas of cryptography: message security, key negotiation, and key management. You'll learn how to think like a cryptographer. You'll discover techniques for building cryptography into products from the start and you'll examine the many technical changes in the field. After a basic overview of cryptography and what it means today, this indispensable resource covers such topics as block ciphers, block modes, hash functions, encryption modes, message authentication codes, implementation issues, negotiation protocols, and more. Helpful examples and hands-on exercises enhance your understanding of the multi-faceted field of cryptography. An author team of internationally recognized cryptography experts updates you on vital topics in the field of cryptography Shows you how to build cryptography into products from the start Examines updates and changes to cryptography Includes coverage on key servers, message security, authentication codes, new standards, block ciphers, message authentication codes, and more Cryptography Engineering gets you up to speed in the ever-evolving field of cryptography.

The ultimate guide to cryptography, updated from an author team of the world's top cryptography experts. Cryptography is vital to keeping information safe, in an era when the formula to do so becomes more and more challenging. Written by a team of world-renowned cryptography experts, this essential guide is the definitive introduction to all major areas of cryptography: message security, key negotiation, and key management. You'll learn how to think like a cryptographer. You'll discover techniques for building cryptography into products from the start and you'll examine the many technical changes in the field. After a basic overview of cryptography and what it means today, this indispensable resource covers such topics as block ciphers, block modes, hash functions, encryption modes, message authentication codes, implementation issues, negotiation protocols, and more. Helpful examples and hands-on exercises enhance your understanding of the multi-faceted field of cryptography. An author team of internationally recognized cryptography experts updates you on vital topics in the field of cryptography Shows you how to build cryptography into products from the start Examines updates and changes to cryptography Includes coverage on key servers, message security, authentication codes, new standards, block ciphers, message authentication codes, and more Cryptography Engineering gets you up to speed in the ever-evolving field of cryptography.

Cryptography is vital to keeping information safe, in an era when the formula to do so becomes more and more challenging. This book shows you how to build cryptography into products from the start.

Discusses how to choose and use cryptographic primitives, how to implement cryptographic algorithms and systems, how to protect each part of the system and why, and how to reduce system complexity and increase security.

Cryptography is now ubiquitous – moving beyond the traditional environments, such as government communications and banking systems, we see cryptographic techniques realized in Web browsers, e-mail programs, cell phones, manufacturing systems, embedded software, smart buildings, cars, and even medical implants. Today's designers need a comprehensive understanding of applied cryptography. After an introduction to cryptography and data security, the authors explain the main techniques in modern cryptography, with chapters addressing stream ciphers, the Data Encryption Standard (DES) and 3DES, the Advanced Encryption Standard (AES), block ciphers, the RSA cryptosystem, public-key cryptosystems based on the discrete logarithm problem, elliptic-curve cryptography (ECC), digital signatures, hash functions, Message Authentication Codes (MACs), and methods for key establishment, including certificates and public-key infrastructure (PKI). Throughout the book, the authors focus on communicating the essentials and keeping the mathematics to a minimum, and they move quickly from explaining the foundations to describing practical implementations, including recent topics such as lightweight ciphers for RFIDs and mobile devices, and current key-length recommendations. The authors have considerable experience teaching applied cryptography to engineering and computer science students and to professionals, and they make extensive use of examples, problems, and chapter reviews, while the book's website offers slides, projects and links to further resources. This is a suitable textbook for graduate and advanced undergraduate courses and also for self-study by engineers.

From the world's most renowned security technologist, Bruce Schneier, this 20th Anniversary Edition is the most definitive reference on cryptography ever published and is the seminal work on cryptography. Cryptographic techniques have applications far beyond the obvious uses of encoding and decoding information. For developers who need to know about capabilities, such as digital signatures, that depend on cryptographic techniques, there's no better overview than Applied Cryptography, the definitive book on the subject. Bruce Schneier covers general classes of cryptographic protocols and then specific techniques, detailing the inner workings of real-world cryptographic algorithms including the Data Encryption Standard and RSA public-key cryptosystems. The book includes source-code listings and extensive advice on the practical aspects of cryptography implementation, such as the importance of generating truly random numbers and of keeping keys secure. ". . .the best introduction to cryptography I've ever seen. . . .The book the National Security Agency wanted never to be published. . . ." -Wired Magazine ". . .monumental . . . fascinating . . . comprehensive . . . the definitive work on cryptography for computer programmers . . ." -Dr. Dobb's Journal ". . .easily ranks as one of the most authoritative in its field." -PC Magazine The book details how programmers and electronic communications professionals can use cryptography-the technique of enciphering and deciphering messages-to maintain the privacy of computer data. It describes dozens of cryptography algorithms, gives practical advice on how to implement them into cryptographic software, and shows how they can be used to solve security problems. The book shows programmers who design computer applications, networks, and storage systems how they can build security into their software and systems. With a new Introduction by the author, this premium edition will be a keepsake for all those committed to computer and cyber security.

Cryptography is an area that traditionally focused on secure communication, authentication and integrity. In recent times though, there is a wealth of novel fine-tuned cryptographic techniques that sprung up as cryptographers focused on the specialised problems that arise in digital content distribution. These include fingerprinting codes, traitor tracing, broadcast encryption and others. This book is an introduction to this new generation of cryptographic mechanisms as well as an attempt to provide a cohesive presentation of these techniques. Encryption for Digital Content details the subset cover framework (currently used in the AACS encryption of Blu-Ray disks), fingerprinting codes, traitor tracing schemes as well as related security models and attacks. It provides an extensive treatment of the complexity of the revocation problem for multi-receiver (subscriber) encryption mechanisms, as well as the complexity of the traceability problem. Pirate evolution type of attacks are covered in depth. This volume also illustrates the manner that attacks affect parameter selection, and how this impacts implementations. The authors gratefully acknowledge the support of the National Science Foundation under Grant No. 0447808.

Cryptography, in particular public-key cryptography, has emerged in the last 20 years as an important discipline that is not only the subject of an enormous amount of research, but provides the foundation for information security in many applications. Standards are emerging to meet the demands for cryptographic protection in most areas of data communications. Public-key cryptographic techniques are now in widespread use, especially in the financial services industry, in the public sector, and by individuals for their personal privacy, such as in electronic mail. This Handbook will serve as a valuable reference for the novice as well as for the expert who needs a wider scope of coverage within the area of cryptography. It is a necessary and timely guide for professionals who practice the art of cryptography. The Handbook of Applied Cryptography provides a treatment that is multifunctional: It serves as an introduction to the more practical aspects of both conventional and public-key cryptography It is a valuable source of the latest techniques and algorithms for the serious practitioner It provides an integrated treatment of the field, while still presenting each major topic as a self-contained unit It provides a mathematical treatment to accompany practical discussions It contains enough abstraction to be a valuable reference for theoreticians while containing enough detail to actually allow implementation of the algorithms discussed Now in its third printing, this is the definitive cryptography reference that the novice as well as experienced developers, designers, researchers, engineers, computer scientists, and mathematicians alike will use.

Serious Cryptography is the much anticipated review of modern cryptography by cryptographer JP Aumasson. This is a book for readers who want to understand how cryptography works in today's world. The book is suitable for a wide audience, yet is filled with mathematical concepts and meaty discussions of how the various cryptographic mechanisms work. Chapters cover the notion of secure encryption, randomness, block ciphers and ciphers, hash functions and message authentication codes, public-key crypto including RSA, Diffie-Hellman, and elliptic curves, as well as TLS and post-quantum cryptography. Numerous code examples and real use cases throughout will help practitioners to understand the core concepts behind modern cryptography, as well as how to choose the best algorithm or protocol and ask the right questions of vendors. Aumasson discusses core concepts like computational security and forward secrecy, as well as strengths and limitations of cryptographic functionalities related to

The book is designed to be accessible to motivated IT professionals who want to learn more about the specific attacks covered. In particular, every effort has been made to keep the chapters independent, so if someone is interested in has function cryptanalysis or RSA timing attacks, they do not necessarily need to study all of the previous material in the text. This would be particularly valuable to working professionals who might want to use the book as a way to quickly gain some depth on one specific topic.