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Autore	Barbisan, Umberto <1956- >
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## Note generali

Includes index.

## Nota di contenuto

Front Cover; Cryptography for Developers; Copyright Page; Contents; Preface; Chapter 1. Introduction; Introduction; Threat Models; What Is Cryptography?; Asset Management; Common Wisdom; Developer Tools; Summary; Organization; Frequently Asked Questions; Chapter 2. ASN.1 Encoding; Overview of ASN.1; ASN.1 Syntax; ASN.1 Data Types; ASN.1 Length Encodings; ASN.1 Boolean Type; ASN.1 Integer Type; ASN.1 BIT STRING Type; ASN.1 OCTET STRING Type; ASN.1 NULL Type; ASN.1 OBJECT IDENTIFIER Type; ASN.1 SEQUENCE and SET Types; ASN.1 PrintableString and IA5STRING Types; ASN.1 UTCTIME Type Implementation ASN.1 Length Routines; ASN.1 Primitive Encoders; Putting It All Together; Frequently Asked Questions; Chapter 3. Random Number Generation; Introduction; Measuring Entropy; How Bad Can It Be?; RNG Design; PRNG Algorithms; Putting It All Together; Frequently Asked Questions; Chapter 4. Advanced Encryption Standard; Introduction; Implementation; Practical Attacks; Chaining Modes; Putting It All Together; Frequently Asked Questions; Chapter 5. Hash Functions; Introduction; Designs of SHS and Implementation; PKCS # 5 Key Derivation; Putting It All Together Frequently Asked Questions Chapter 6. Message-Authentication Code Algorithms; Introduction; Security Guidelines; Standards; Cipher Message Authentication Code; Hash Message Authentication Code; Putting It All Together; Frequently Asked Questions; Chapter 7. Encrypt and Authenticate Modes; Introduction; Design and Implementation; Putting It All Together; Frequently Asked Questions; Chapter 8. Large Integer Arithmetic; Introduction; What Are BigNums?; The Algorithms; Putting It All Together; Frequently Asked Questions; Chapter 9. Public Key Algorithms; Introduction Goals of Public Key Cryptography RSA Public Key Cryptography; Elliptic Curve Cryptography; Putting It All Together; Frequently Asked Questions; Index

## Sommario/riassunto

The only guide for software developers who must learn and implement cryptography safely and cost effectively. The book begins with a chapter that introduces the subject of cryptography to the reader. The second chapter discusses how to implement large integer arithmetic as required by RSA and ECC public key algorithms. The subsequent chapters discuss the implementation of symmetric ciphers, one-way hashes, message authentication codes, combined authentication and encryption modes, public key cryptography and finally portable coding practices. Each chapter includes in-depth discussion on