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Plaintext and Adaptive Chosen Ciphertext Attacks -- Invited Talk -- Cryptography without (Hardly Any) Secrets ? -- Security, Proofs and Models (2) -- Salvaging Merkle-Damgård for Practical Applications -- On the Security of Padding-Based Encryption Schemes – or – Why We Cannot Prove OAEP Secure in the Standard Model -- Simulation without the Artificial Abort: Simplified Proof and Improved Concrete Security for Waters' IBE Scheme -- On the Portability of Generalized Schnorr Proofs -- Side Channels -- A Unified Framework for the Analysis of Side-Channel Key Recovery Attacks -- A Leakage-Resilient Mode of Operation -- Curves -- ECM on Graphics Cards -- Double-Base Number System for Multi-scalar Multiplications -- Endomorphisms for Faster Elliptic Curve Cryptography on a Large Class of Curves -- Generating Genus Two Hyperelliptic Curves over Large Characteristic Finite Fields -- Randomness -- Verifiable Random Functions from Identity-Based Key Encapsulation -- Optimal Randomness Extraction from a Diffie-Hellman Element -- A New Randomness Extraction Paradigm for Hybrid Encryption.

Sommario/riassunto	This book constitutes the refereed proceedings of the 28th Annual International Conference on the Theory and Applications of Cryptographic Techniques, EUROCRYPT 2009, held in Cologne, Germany, in April 2009. The 33 revised full papers presented together with 1 invited lecture were carefully reviewed and selected from 148 submissions. The papers address all current foundational, theoretical and research aspects of cryptology, cryptography, and cryptanalysis as well as advanced applications. The papers are organized in topical sections on security, proofs, and models, hash cryptanalysis, group and broadcast encryption, cryptosystems, cryptanalysis, side channels, curves, and randomness.