#### 图书基本信息

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#### 内容概要

This book constitutes the thoroughly refereed post-proceedings of the Third International Workshop on Cryptoanalysis Hardware and Embedded Systems, CHES 2001, held in Paris, France in Mai 2001. The 31 revised full papers presented were carefully reviewed and selected from 66 submissions. The papers are organized in topical sections on side channel attacks, Rijndael hardware implementation, random number generators, elliptic curve algorithms, arithmetic architectures, cryptanalysis, embedded implementations of ciphers, and side channel attacks on elliptic curve cryptosystems.

### 书籍目录

Invited Talk Protecting Embedded Systems - The Next Ten YearsSide Channel Attacks I A Sound Method for Switching between Boolean and Arithmetic Masking Fast Primitives for Internal Data Scrambling in Tamper Resistant Hardware Random Register Renaming to Foil DPA Randomized Addition-Subtraction Chains as a Countermeasure against Power AttacksRijndael Hardware Implementations Architectural Optimization for a 1.82Gbits/sec VLSI Implementation of the AES Rijndael Algorithm High Performance Single-Chip FPGA Rijndael Algorithm Two Methods of Rijndael Implementation in Reconfigurable HardwareRandom Number Generators Pseudo-random Number Generation on the IBM 4758 Secure Crypto Coprocessor Efficient Online Tests for True Random Number GeneratorsElliptic Curve Algorithms The Hessian Form of an Elliptic Curve Efficient Elliptic Curve Cryptosystems from a Scalar Multiplication Algorithm with Recovery of the y-Coordinate on a Montgomery-Form Elliptic Curve Generating Elliptic Curves of Prime OrderInvited Talk New Directions in CroptographyArithmetic Architectures A New Low Complexity Parallel Multiplier for a Class of Finite Fields . Efficient Rijndael Encryption Implementation with Composite Field Arithmetic High-Radix Design of a Scalable Modular Multiplier A Bit-Serial Unified Multiplier Architecture for Finite Fields GF(p) and GF(2m)Cryptanalysis Attacks on Cryptoprocessor Transaction Sets Bandwidth-Optimal Kleptographic Attacks Electromagnetic Analysis: Concrete ResultsEmbedded Implementations and New CiphersHardware Implementations of **CiphersAuthor Index** 

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