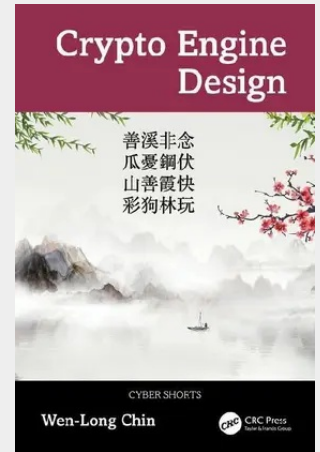


Crypto Engine Design

Crypto Engine Design is a deep dive into cryptographic hardware architectures, providing a structured approach to secure computing. This book examines the design, optimization, and implementation of crypto engines, ensuring efficiency and robustness in encryption and hashing mechanisms. Cryptography is the backbone of digital security, protecting sensitive data from unauthorized access and manipulation. With this book, the goal is to bridge theoretical foundations with practical engineering, making cryptographic systems both accessible and effective. Through a detailed exploration of key algorithms—including AES, DES, and SHA—readers will gain insight into how cryptographic standards operate and how they can be efficiently realized in hardware. The book unfolds across four chapters: - Introduction: Establishes the fundamental principles of cryptography, highlighting its significance in modern computing. - AES: A deep analysis of the Advanced Encryption Standard, known for its balance between security and performance. - DES: Explores the historical impact and legacy of the Data Encryption Standard, detailing its strengths and limitations. - SHA: Examines Secure Hash Algorithms, emphasizing their role in ensuring data integrity and authenticity. Designed for professionals, researchers, and engineers, Crypto Engine Design serves as both a reference and a practical guide for building high-performance cryptographic hardware solutions. Through clear explanations and structured methodologies, this book equips readers with the tools to implement secure architectures in real-world applications.

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166,00 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781041095262

Medium: Buch

ISBN: 978-1-041-09526-2

Verlag: CRC Press

Erscheinungstermin: 29.12.2025

Sprache(n): Englisch

Auflage: 1. Auflage 2025

Serie: Cyber Shorts

Produktform: Gebunden

Gewicht: 355 g

Seiten: 120

Format (B x H): 161 x 240 mm

