

River Publishers Series in Computer Engineering and Information Science and Technology

## Introduction to Quantum Computing

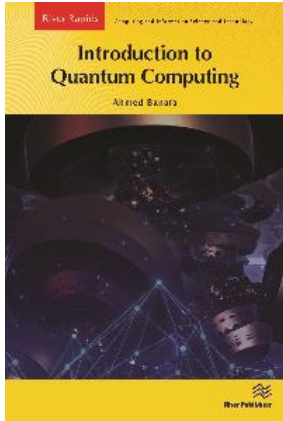
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### Description:

This book explores quantum computing as a transformative technology and its applications in cryptography, teleportation, IoT, AI, and Blockchain, and the futuristic concept of quantum internet. It explains the fundamentals of quantum computing and how it's different from classic computing, also the challenges facing quantum computing will be discussed, in addition to types of quantum computing, will be introduced and explained. The concept and types of Qubit and its implications on quantum computing applications will be explained.

**Keywords:** IoT, Artificial Intelligence, Cybersecurity, Blockchain, Entanglement, Superposition, Teleportation, Quantum Internet, Quantum Communications, Logical Qubits, Physical Qubits, Quantum Emulator/Simulator, Quantum Annealer, Noisy Intermediate-Scale, Quantum Computer, NISQ, Universal Quantum Computers, Cryptographically Relevant Quantum Computers, CRQC, Post-Quantum, Quantum-Resistant, AI, Quantum Cryptography

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