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Nota di contenuto	Front Cover; Dedication; Contents; Preface; Author; Chapter 1: Introduction and overview; Chapter 2: Basic ideas of classical and quantum computational models and complexity classes; Chapter 3: Mathematical tools and simple quantum mechanics required for quantum computing; Chapter 4: Quantum gates and quantum circuits; Chapter 5: Quantum algorithms; Chapter 6: Quantum error correction; Chapter 7: Quantum teleportation and superdense coding; Chapter 8: Quantum cryptography; Bibliography; Back Cover
Sommario/riassunto	While there are many available textbooks on quantum information theory, most are either too technical for beginners or not complete enough. Filling this gap, Elements of Quantum Computation and Quantum Communication gives a clear, self-contained introduction to quantum computation and communication. Written primarily for undergraduate students in physics, mathematics, computer science, and related disciplines, this introductory text is also suitable for researchers interested in quantum computation and communication.