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Quantum Computation And Quantum Information Nielsen Pdf

But the real power of quantum computation derives from the exponential state spaces of multiple quantum bits: just as a single qubit can be in a superposition of 0 and 1, a register of n qubits can be in a superposition of all 2^n possible values.

An Introduction to Quantum Computing for Non-Physicists

Quantum computation is deterministic highly (exponentially) parallel unitary described by Schrodinger equation using entanglement as a computational resource quantum computation (evolution) Classical computation is working with real probabilities of computation are irreversibly lost M E A S U R E M E N T

come in.. quantum events from quantum to ...

QUANTUM WORLD CLASSICAL WORLD - stuba.sk

Quantum Computer Science An Introduction In the 1990s it was realized that quantum physics has some spectacular applications in computer science. This book is a concise introduction to quantum computation, developing the basic elements of this new branch of computational theory without assuming any background in physics.

Quantum Computer Science - DPHU

Quantum Computing for beginners: Building Qubits Phase across junction Energy maximum 0 Energy minimum Energy diagram of a junction Electrons Weak link Superconductor What are the basic principles? The Josephson Junction is the basic building block of a superconducting qubit, and thus a quantum computer.

Quantum Computing for Beginners: Building Qubits

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quantum physical systems to impact a wide variety of elds, including information theory, cryptography, language theory, and mathematics. Probably the most widely known development in quantum computation was Peter Shor's 1997 publication of a quantum algorithm for performing prime factorization of integers in essentially polynomial time [2].

An Introduction to Quantum Algorithms

1.1.1 History of quantum computation and quantum information 2 1.1.2 Future directions 12 1.2 Quantum bits 13 1.2.1 Multiple qubits 16 1.3 Quantum computation 17 1.3.1 Single qubit gates 17 1.3.2 Multiple qubit gates 20 1.3.3 Measurements in bases other than the computational basis 22

Quantum Computation and Quantum Information

It contains four main parts, beginning with topics in quantum computing that include quantum algorithms and hidden subgroups, quantum search, algorithmic complexity, and quantum simulation. The next section covers quantum technology, such as mathematical tools, quantum wave functions, superconducting quantum computing interference devices (SQUIDs), and optical quantum computing.

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