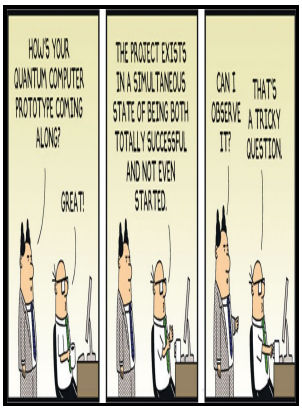
Quantum computing - from linear algebra to physical realizations

Taylor & Francis - Quantum Computation and Information Theory Course



Description: -
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Notes: Includes bibliographical references and index.
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Quantum Computing : Mikio Nakahara : 9780750309837

In addition the book Consistent Quantum Theory by R.

Quantum computing

It turns out that the cross-entropy score verifies that the two distributions are close, provided a simple condition is met—namely, that the entropy of the distribution sampled from the device is at least as large as the entropy of the true output distribution of the chosen quantum circuit.

[PDF] Quantum Computing

If this is still too high to be able to implement an algorithm of interest, then the procedure can be recursed, achieving 35 35 p 3 3, and so on for r rounds resulting in 35 rp 3 r. Thus, while this equivalency does not provide any help in solving the problem on a classical computer since it would need to generate this sequence of 2 n numbers for an n-bit number to factor, which would take an exponential amount of time , it is a perfect problem for a quantum computer.

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Many examples of provable quantum speedups for query problems are related to Grover's algorithm, including for finding collisions in two-to-one functions, which uses Grover's algorithm, and Farhi, Goldstone, and Gutmann's algorithm for evaluating NAND trees, which is a variant of the search problem.

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To be able to use the power of the QFT, Shor first converted the problem of finding the factors of a number to a problem that involves finding a repeating pattern—exactly what the FT detects. These algorithms depend on the primitive of the.

Quantum Computing (豆瓣)

Popescu, Introduction to Quantum Computation and Information World Scientific, 1998. It is also recommended to advanced undergraduate students, postgraduate students and researchers in physics, mathematics and computer science.

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The process is repeated until a heuristic stopping criteria is reached, usually corresponding to the achievement of an energy threshold. Tapp, 2002, Quantum amplitude amplification and estimation, Contemporary Mathematics 305:53-74. The most widely used model is the.

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