

classical and quantum computing pdf

Quantum computing is computing using quantum-mechanical phenomena, such as superposition and entanglement. A quantum computer is a device that performs quantum computing. Such a computer is completely different from binary digital electronic computers based on transistors and capacitors. Whereas common digital computing requires that the data be encoded into binary digits (0 and 1), each of which is ...

Quantum computing - Wikipedia

November 13, 2012 1:19 WSPC - Proceedings Trim Size: 9.75in x 6.5in solvay-preskill-2011-arXiv-v3 3 very complex, so that recording a complete classical description of the quantum

arXiv:1203.5813v3 [quant-ph] 10 Nov 2012

A quantum Turing machine (QTM), also a universal quantum computer, is an abstract machine used to model the effect of a quantum computer. It provides a very simple model which captures all of the power of quantum computation. Any quantum algorithm can be expressed formally as a particular quantum Turing machine. Such Turing machines were first proposed in a 1985 article written by Oxford ...

Quantum Turing machine - Wikipedia

This article, which builds on a basic knowledge of the mathematics of vectors, gives an introduction to quantum computing.

Introduction to Quantum Computing - IBM

Quantum computers should soon be able to beat classical computers at certain basic tasks. But before they're truly powerful, researchers have to overcome a number of fundamental roadblocks. There is now talk of impending "quantum supremacy": the moment when a quantum computer can carry out a ...

The Era of Quantum Computing Is Here. Outlook: Cloudy

Quantum computing, a technology that's still in its early phases, uses the quirks of quantum physics to perform calculations at far higher speeds than current computers.

Volkswagen, Google cooperate on quantum computing research

S217 Open University course module, Physics from classical to quantum

S217 | Physics: from Classical to Quantum | Open University

In this interview with founding member and lead developer of ProjectQ Damian Steiger, learn about using Python to understand quantum computing.

Using Python to Understand Quantum Computing [Interview]

Engineers at Australia's University of New South Wales have invented a radical new architecture for quantum computing, based on novel 'flip-flop qubits', that promises to make the large-scale ...

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