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Quantum Computing: Lecture Notes Ronald de Wolf. Preface from 2011 These lecture notes were formed in small chunks during my "Quantum computing" course at the University of Amsterdam, Feb-May 2011, and compiled into one text thereafter. ... Quantum computation is the field that investigates the computational power and other prop-

Quantum Computing: Lecture Notes

COMPUTING Jozef Gruska quantum measurement has the effect of "magnifying" ... computers is still making enormous progress and no end of that seems to be in sight More over the design of quantum computers seems to be very questionable and almost surely enormously expensive

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quantum computing and Deutsch proposed the "first Quantum Algorithm [Deu85]. The reason that these concepts are becoming of interest to computer engineering community is mainly due to the Moore's law [Moo65]; that is: the number of transis-

Chapter 1 Quantum Computing Basics and Concepts

What use is quantum computing? Overview of Quantum Systems Dirac notation & wave functions Two level systems Classical Computation Turing machine model. Outline (cont.) Circuit model Quantum Computation Qubits Circuit model of quantum computation Deutsch's algorithm, Shor's algorithm Physical implementation

Quantum Computing - University of North Carolina Wilmington

quantum computing. Quantum mechanics is a mathematical language, much like calculus. Just as classical physics uses calculus to explain nature, quantum physics uses quantum mechanics to explain nature. Just as classical computers can be thought of in boolean algebra terms, quantum computers are reasoned about with quantum mechanics.

Quantum Computing - Lecture Notes

Introduction to Quantum Computing 3 can freely explore the theoretical realm of quantum computing. Section 3 defines the quantum bit, or qubit. Unlike classical bits, a quantum bit can be put in a superposition state that encodes both 0 and 1. There is no good classical

An Introduction to Quantum Computing for Non-Physicists

(Submitted on 12 Aug 1997 , last revised 24 Sep 1997 (this version, v2)) Abstract: The subject of quantum computing brings together ideas from classical information theory, computer science, and quantum physics. This review aims to summarise not just quantum computing, but the whole subject of quantum information theory.

[quant-ph/9708022] Quantum Computing - arXiv

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Stern-Gerlach experiment 50 2.2 Young's double-slit experiment 53 2.3 Linear vector spaces 57 2.4 The postulates of quantum mechanics 76

Principles of Quantum Computation and Information - ENSEA

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Quantum Computing Since Democritus

Quantum Computer Science An Introduction In the 1990s it was realized that quantum physics has some spectacular applications in computer science.

Quantum Computer Science - DPHU

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NATIONAL SECURITY AGENCY CENTRAL SECURITY SERVICE (U

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.

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