

quantum computing and quantum pdf

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. Each chapter was covered in a lecture of 2 - 45 minutes, with an additional 45-minute lecture for exercises and homework.

Quantum Computing: Lecture Notes - CWI

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.

QUANTUM WORLD CLASSICAL WORLD - stuba.sk

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

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Quantum Computation and Quantum Information

a quantum computer can compute the values for all input states. This process is known as quantum parallelism. However, measuring the output states will randomly yield only one of the values in the superposition, and at the same time destroy all of the other results.

An Introduction to Quantum Computing for Non-Physicists

Quantum Computing Basics and Concepts 1.1 Introduction This book is for researchers and students of computational intelligence as well as for engineers interested in designing quantum algorithms in the circuit representation. The content of this book is presented as a set of design methods of quantum circuits.

Chapter 1 Quantum Computing Basics and Concepts

n-Qubit Quantum Register A quantum computer may be thought of as a collection of n-qubits called a quantum register. A n-qubit quantum register has a basis of 2^n allowed states, and any state of the quantum computer is in a superposition of these states.

Quantum Computing - University of North Carolina Wilmington

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

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