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(PDF) An Introduction to Quantum Computing
Exercises are from QUANTUM COMPUTING: A GENTLE INTRODUCTION, by Eleanor Rieffel and Wolfgang Polak, published by The MIT Press. These pages are a work in progress. You are invited to contribute to a discussion of solutions to the exercises in the book. If you believe you have a better solution than a previous post,...

A Gentle Introduction to Quantum Computing - PhysLab
Their book, An Introduction to Quantum Computing (Oxford University Press, 2007), is a good reference for those already working in the field, but it seems to me a bit too rushed for beginners. In contrast to those authors, Rieffel and Polak are trained in classical computer science and have not been active researchers in quantum computing.

Quantum computing : a gentle introduction (Book, 2011 ...
The fundamental unit of computation is no longer the bit but the quantum bit or qubit. This comprehensive introduction to the field offers a thorough exposition of quantum computing and the underlying concepts of quantum physics, explaining all the relevant mathematics and offering numerous examples.

Quantum Computing A Gentle Introduction
The authors have given us an introduction to the new field of quantum information, accessible to anyone familiar with college-level mathematics. It will be the easiest way for anyone to go from knowing no quantum mechanics to understanding cutting-edge problems in quantum computing.

[0708.0261] An Introduction to Quantum Computing
Abstract: This paper is a gentle but rigorous introduction to quantum computing intended for discrete mathematicians. Starting from a small set of assumptions on the behavior of quantum computing devices, we analyze their main characteristics, stressing the differences with classical computers, and finally describe two well-known algorithms (Simon's algorithm and Grover's algorithm) using the formalism developed in previous sections.

Quantum Computing: A Gentle Introduction (Scientific and ...
1 Introduction to Quantum Computing. The eld of quantum computing was pioneered in 1985 by Daved Deutsch [2]. Building upon a suggestion by Feynman [1] and the work of other scientists, he generalized the concept of the Turing Machine as postulated by Turing [3].

Exercises for Chapter 2 - Twoqubits
More quantum computing learning resources. 12/11/2017; 4 minutes to read; In this article. We have reviewed, in this brief introduction, how a quantum computer can be viewed as a device that stores information as a unit vector in an exponentially large vector space, and seen how quantum gates can be used to rotate the information in a way so as to perform a calculation.

Quantum Computing: A Gentle Introduction: Physics Today ...
Since evangelisation on the possibilities of Quantum Computing is a large part of our mission statement, we decided it was due time for our first public quantum presentation. That's why last week we gave our "gentle introduction to quantum computing" talk to an amazing audience at Cronos Leuven's Openba[a]r event.

An Introduction to Quantum Computing

Quantum Computing. A Gentle Introduction. A thorough exposition of quantum computing and the underlying concepts of quantum physics, with explanations of the relevant mathematics and numerous examples.

A gentle introduction to Quantum Computing | Raccoons

gentle introduction to both using this computer and to some of the basic ideas that underlie quantum computing. It is designed for the complete novice. No previous knowledge of anything to do with computing or quantum mechanics is required. Being short, this introduction is far from being comprehensive. In fact, we will only

Quantum computing learning resources - Microsoft Quantum ...

Quantum Computing A Gentle Introduction Eleanor Rieffel and Wolfgang Polak MIT Press, Cambridge, MA, 2011. $45.00 (372 pp.). ISBN 978-0-262-01506-6 How do you describe a masterpiece in a page or less? This is the pleasant problem I am facing in writing a review of Quantum Computing: A Gentle Introduction by Eleanor Rieffel and Wolfgang Polak.

Quantum Computing: A Gentle Introduction (Scientific and ...

Quantum computing : a gentle introduction. [Eleanor Rieffel; Wolfgang Polak] -- "The text covers the basic building blocks of quantum information processing, quantum bits and quantum gates, showing their relationship to the key quantum concepts of quantum measurement, quantum ...

An Introduction to Quantum Computing, Without the Physics

Make sure your parametrization is in one-to-one correspondence with points on the sphere, and therefore single-qubit quantum states, in the range $\theta\in [0, \pi]$ and $\phi\in [0, 2\pi]$ except for the points corresponding to $\ket 0$ and $\ket 1$. b) What are θ and ϕ for each of the states $\ket +$, $\ket -$, $\ket{\i}$, and $\ket{-\i}$?

Quantum Computing A Gentle Introduction | Request PDF

Quantum Computing is a new and exciting field at the intersection of mathematics, computer science and physics. It concerns a utilization of quantum mechanics to improve the efficiency of computation. Here we present a gentle introduction to some of the ideas in quantum computing.

Amazon.com: Quantum Computing: A Gentle Introduction ...

The fundamental unit of computation is no longer the bit but the quantum bit or qubit. This comprehensive introduction to the field offers a thorough exposition of quantum computing and the underlying concepts of quantum physics, explaining all the relevant mathematics and offering numerous examples.

Exercises - Quantum Computing: A Gentle Introduction

The theory of quantum computing is related to a theory of reversible computing. A computation is reversible if it is always possible to uniquely recover the input, given the output. For example, the not operation is reversible, because if the output bit is 0, you know the input bit must have been 1, and vice versa.

Quantum Computing | The MIT Press

Quantum Computing: A Gentle Introduction is a good beginner level book that covers quantum computing a bit more in depth from a computer science and information technology mentality (Rieffel ...

Quantum Computing: A Gentle Introduction (Scientific and ...

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A taste of quantum computing: a gentle introduction using ...

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