

# Quantum Computing A Gentle Introduction Scientific And Engineering Computation

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### Quantum Computing A Gentle Introduction

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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] He invoked quantum mechan-

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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

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Quantum Computing A Gentle Introduction Eleanor Rieffel and Wolfgang Polak MIT Press, Cambridge, MA, 2011 \$4500 (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

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Quantum computing : a gentle introduction / Eleanor Rieffel and Wolfgang Polak p cm—(Scientific and engineering computation) Includes bibliographical references and index ISBN 978-0-262-01506-6 (hardcover : alk paper) 1 Quantum computers 2 Quantum theory I Polak, Wolfgang, 1950- II Title

### **Introduction to Quantum Computing**

Eleanor Rieffel and Wolfgang Polak, Quantum Computing – A Gentle Introduction, MIT Press, 2011 (A great book!) Peter W Shor, Polynomial-time algorithms for prime factorization and discrete logarithms on a quantum computer, SIAM Journal on Computing, 26(5): 1484–1509, 1997

### **An Introduction to Quantum Computing**

computing model Quantum information processing is the result of using the physical reality that quantum theory tells us about for the purposes of performing tasks that were previously thought impossible or infeasible Devices that perform quantum information processing are known as quantum computers In this book we examine

**arXiv:1708.03684v5 [cs.DM] 21 Feb 2020**

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### **An Introduction Quantum Computing**

An Introduction to Quantum Computing Michal Charemza University of Warwick March 2005 Acknowledgments Special thanks are given to Steve Flammia and Bryan Eastin, authors of the LATEX package, Qcircuit, used to draw all the quantum circuits in this document

### **Introduction to Quantum Computing**

In this paper, a gentle introduction to Quantum Computing is presented The main purpose is to enable the non-experienced reader with the basic concepts and notations related with Quantum Computing 1 Introduction There are certain quantum mechanical effects that cannot be simulated efficiently on the basis of the classical computation [1]

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Dec 27, 2015 · a gentle introduction to post-quantum cryptography Daniel J Bernstein<sup>1;2</sup> Tanja Lange<sup>1</sup> IMark Ketchen, IBM Research, 2012, on quantum computing: \Were actually doing things that are making us think like, 'hey this isn't 50 years o , this is IPost ...

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Short introduction to Quantum Computing Joris Kattemolle QuSoft, CWI, Science Park 123, Amsterdam, The Netherlands Institute for Theoretical Physics, University of Amsterdam, Science Park 904, Amsterdam, The Netherlands E-mail: [jjkattemolle@uva.nl](mailto:jjkattemolle@uva.nl) Abstract: These notes offer physicists a brief introduction to quantum computation