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An Introduction To Quantum Computing, Oxford University Press (2007). KSV

Classical And Quantum Computation (Graduate Studies In Mathematics), AMS, 2002. Wat

The Theory Of Quantum Information, Cambridge University Press, 2018. Aar

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Quantum Gates: Summary The First 4 Gates Above Are Similar To The Classical Gates. The Last Two Are Non-classical Gate. There Are Many Other Classical/non-Classical Quantum Gates, E.g., Rotate, Copy, Read, Write, ... Using Such Gates One Can Design Quantum Circuits

0 1 111 0 NOT= AND= 1 0 0001 1 000 0001 OR= NAND= 0111 111 0 1 000 1 1 1 01 0 0 ...

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QUANTUM COMPUTING: AN INTRODUCTION

Discovery Has Potentially Important Implications For The Security Of Many Modern Cryptographic Systems. The Fundamentals Of Quantum Computing Are Then Introduced - Reversible Logic Gates, Qubits And Quantum Registers. The Key Quantum Property Of 'entanglement' Is Introduced.

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Tum Gates And All Quantum Computations, Must Be Reversible. Yet All Classical Algorithms Can Be Made Reversible And Can Be Computed On A Quantum Computer In Comparable Time. Some Common Quantum Gates Are Defined In Section 4. Two Applications Combining Quantum Gates And Entangled States

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Continuum Analytics And Robert Johansson August 17, 2015

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