

## An Introduction To Quantum Computing Pdf Free

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Quantum Circuit Model, Which Works As Follows: 1.The Quantum Computer Has A State That Is Contained In A Quantum Register And Is Initialized In A Predefined Way. 2.The State Evolves By Applying Operations Specified In Advance In The Form Of An Algorithm. 3.At The End Of The Computation, Some Information On The State Of The Quantum May 13th, 2024

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### **Introduction To Quantum Computing**

KLMA 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 Introduction To Quantum Informa May 1th, 2024

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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 ... Mar 9th, 2024

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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 'entangle May 6th, 2024

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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.

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