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Quantum Information And Computation For Dummies

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Chapter 1 Introduction To Quantum Computation

CHAPTER 1. INTRODUCTION TO QUANTUM COMPUTATION 9 XOR $A \oplus B$ 00 0 01 1 10 1 11 0 (1.34) NAND $A \downarrow B$ 00 1 01 1 10 1 11 0 (1.35) NOR $A \downarrow B$ 00 1 01 0 10 0 11 0 (1.36) XNOR $A \oplus B$ 00 1 01 0 10 0 11 1 (1.37) It Can Be Shown By Direct Construction That NAND And NOR Gates Are Universal (i.e. Arbitrary Gate Can Be Constructed Out Of Only NAND Gates ... Jan 10th, 2024

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Thus Quantum Geometrical Phases Can Form The Basis Of Any Quantum Computation. Moreover, As The Induced Conditional Phase Depends Only On The Geometry Of The Paths Executed By The Spins It Is Resilient To Certain Types Of Errors And Offers The Potential Of A Naturally Fault-tolerant Way Of Performing Apr 11th, 2024

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Appendix A Linear Algebra For Quantum Computation

Linear Algebra For Quantum Computation The Purpose Of This Appendix Is To Compile The Definitions, Notations, And Facts Of Linear Algebra That Are Important For This Book. This Appendix Also Serves As A Quick Reference For The Main Operations in Vector Spaces, For Instance, The inner And Feb 11th, 2024

Topological Quantum Computation Zhenghan Wang

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Quantum Computation Of Fluid Dynamics

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