

Quantum Algorithms via Linear Algebra

A PRIMER

RICHARD J. LIPTON AND KENNETH W. REGAN



Quantum Algorithms Via Linear Algebra A Primer

Tsuyoshi Takagi, Thomas Peyrin



Quantum Algorithms Via Linear Algebra A Primer:

Quantum Algorithms via Linear Algebra Richard J. Lipton, Kenneth W. Regan, 2014-12-05 Quantum computing explained in terms of elementary linear algebra emphasizing computation and algorithms and requiring no background in physics This introduction to quantum algorithms is concise but comprehensive covering many key algorithms It is mathematically rigorous but requires minimal background and assumes no knowledge of quantum theory or quantum mechanics The book explains quantum computation in terms of elementary linear algebra it assumes the reader will have some familiarity with vectors matrices and their basic properties but offers a review of all the relevant material from linear algebra By emphasizing computation and algorithms rather than physics this primer makes quantum algorithms accessible to students and researchers in computer science without the complications of quantum mechanical notation physical concepts and philosophical issues After explaining the development of quantum operations and computations based on linear algebra the book presents the major quantum algorithms from seminal algorithms by Deutsch Jozsa and Simon through Shor's and Grover's algorithms to recent quantum walks It covers quantum gates computational complexity and some graph theory Mathematical proofs are generally short and straightforward quantum circuits and gates are used to illuminate linear algebra and the discussion of complexity is anchored in computational problems rather than machine models *Quantum Algorithms via Linear Algebra* is suitable for classroom use or as a reference for computer scientists and mathematicians **Introduction**

to Quantum Algorithms via Linear Algebra, second edition Richard J. Lipton, Kenneth W. Regan, 2021-04-06 Quantum computing explained in terms of elementary linear algebra emphasizing computation and algorithms and requiring no background in physics This introduction to quantum algorithms is concise but comprehensive covering many key algorithms It is mathematically rigorous but requires minimal background and assumes no knowledge of quantum theory or quantum mechanics The book explains quantum computation in terms of elementary linear algebra it assumes the reader will have some familiarity with vectors matrices and their basic properties but offers a review of the relevant material from linear algebra By emphasizing computation and algorithms rather than physics it makes quantum algorithms accessible to students and researchers in computer science who have not taken courses in quantum physics or delved into fine details of quantum effects apparatus circuits or theory **Quantum Walks and Search Algorithms**

Renato Portugal, 2018-08-20 The revised edition of this book offers an extended overview of quantum walks and explains their role in building quantum algorithms in particular search algorithms Updated throughout the book focuses on core topics including Grover's algorithm and the most important quantum walk models such as the coined continuous time and Szegedy's quantum walk models There is a new chapter describing the staggered quantum walk model The chapter on spatial search algorithms has been rewritten to offer a more comprehensive approach and a new chapter describing the element distinctness algorithm has been added There is a new appendix on graph theory highlighting the importance of graph theory to quantum walks As before the reader will

benefit from the pedagogical elements of the book which include exercises and references to deepen the reader's understanding and guidelines for the use of computer programs to simulate the evolution of quantum walks. Review of the first edition: The book is nicely written; the concepts are introduced naturally and many meaningful connections between them are highlighted. The author proposes a series of exercises that help the reader get some working experience with the presented concepts, facilitating a better understanding. Each chapter ends with a discussion of further references pointing the reader to major results on the topics presented in the respective chapter.

Florin Manea **zbMATH** **Quantum Information Science** Riccardo Manenti, Mario Motta, 2023. This book explains quantum information science at the basis of the new quantum revolution of this century. Aimed at students who are about to begin a master's program or their graduate studies, it teaches the reader to build and program a quantum computer and leverage its potential.

Intelligent Quantum Information Processing Siddhartha Bhattacharyya, Ivan Cruz-Aceves, Arpan Deyasi, Pampa Debnath, Rajarshi Mahapatra, 2024-05-09. The book discusses the foundations of intelligent quantum information processing applied to several real-life engineering problems, including intelligent quantum systems, intelligent quantum communication, intelligent process optimization, and intelligent quantum distributed networks. This book showcases a detailed overview of different quantum machine learning algorithmic frameworks, presents real-life case studies and applications, and provides an in-depth analysis of quantum mechanical principles. It provides a step-by-step guide in the build-up of quantum-inspired quantum intelligent information processing systems and provides a video demonstration on each chapter for better understanding. It will serve as an ideal reference text for graduate students and academic researchers in fields such as electrical engineering, electronics, and communication engineering, computer engineering, and information technology.

Computing and Combinatorics Lusheng Wang, Daming Zhu, 2018-06-29. This book constitutes the proceedings of the 24th International Conference on Computing and Combinatorics (COCOON 2018) held in Qing Dao, China, in July 2018. The 62 papers presented in this volume were carefully reviewed and selected from 120 submissions. They deal with the areas of algorithms, theory of computation, computational complexity, and combinatorics related to computing.

Fundamentals of Quantum Programming in IBM's Quantum Computers Weng-Long Chang, Athanasios V. Vasilakos, 2020-12-21. This textbook introduces major topics that include quantum bits, superposition, entanglement, logic gates, quantum search algorithm, quantum Fourier transform, inverse quantum Fourier transform, Shor's order-finding algorithm, and phase estimation. Everyone can write algorithms and programs in the cloud, making use of IBM's quantum computers that support IBM Q Experience, which contains the composer, open quantum assembly language, simulators, and real quantum devices. Furthermore, this book teaches you how to use open quantum assembly language to write quantum programs for dealing with complex problems. Through numerous examples and exercises, readers will learn how to write a quantum program with open quantum assembly language for solving any problem from start to complete. This book includes six main chapters: Quantum Bits and Quantum Gates (learn what quantum bits are, how to declare and measure

them what quantum gates are and how they work on a simulator or a real device in the cloud Boolean Algebra and its Applications learn how to decompose CCNOT gate into six CNOT gates and nine gates of one bit and how to use NOT gates CNOT gates and CCNOT gates to implement logic operations including NOT OR AND NOR NAND Exclusive OR XOR and Exclusive NOR XNOR Quantum Search Algorithm and its Applications learn core concepts of quantum search algorithm and how to write quantum programs to implement core concepts of quantum search algorithm for solving two famous NP complete problems that are the satisfiability problem in n Boolean variables and m clauses and the clique problem in a graph with n vertices and q edges Quantum Fourier Transform and its Applications learn core concepts of quantum Fourier transform and inverse quantum Fourier transform and how to write quantum programs to implement them for solving two real applications that are to compute the period and the frequency of two given oracular functions Order Finding and Factoring learn core concepts of Shor's order finding algorithm and how to write quantum programs to implement Shor's order finding algorithm for completing the prime factorization to 15 Phase Estimation and its Applications learn core concepts of phase estimation and quantum counting and how to write quantum programs to implement them to compute the number of solution s in the independent set problem in a graph with two vertices and one edge

Kickstart Quantum Computing and Communication Fundamentals Paras Nath Barwal ,Dr. Kamta Nath Mishra's,2025-02-28 TAGLINE Unlock tomorrow's tech revolution with quantum computing and communication KEY FEATURES Comprehensive coverage of quantum computing from qubits to entanglement Practical insights into real world applications and emerging trends Visual learning with diagrams and examples to simplify complex concepts Exploration of quantum algorithms cryptography and next gen technologies DESCRIPTION As quantum computing continues to reshape industries learning its nuances is crucial for staying ahead in fields like cryptography computing and communication Kickstart Quantum Computing and Communication Fundamentals is an essential guide for anyone eager to explore quantum technology Designed for readers at all levels especially academia it starts with an accessible introduction to quantum computing and communication explaining key concepts like superposition entanglement and measurement The book covers quantum algorithms including Shor's and Grover's algorithms and dives into quantum circuits gates and the technologies behind quantum hardware like superconducting qubits and trapped ions It also explores secure quantum communication protocols such as quantum key distribution and teleportation providing hands on examples with tools like Qiskit Beyond the technical aspects the book examines quantum computing's impact on cryptography addressing current vulnerabilities and quantum secure solutions Concluding with emerging trends and challenges this interdisciplinary resource blends physics computing and engineering offering valuable insights for students educators and professionals entering the quantum age WHAT WILL YOU LEARN Learn the fundamentals of quantum computing including qubits gates and quantum states Understand the workings of quantum circuits and key quantum algorithms Gain insights into quantum error detection correction techniques and quantum

complexity theory Explore quantum communication including Quantum Key Distribution QKD and secure communication protocols Delve into advanced topics like quantum entanglement teleportation and quantum cryptography Understand ethical legal challenges and practical applications in quantum communication WHO IS THIS BOOK FOR This book is ideal for students and educators in engineering and technical fields particularly those studying Computer Science Information Technology Data Science and Electronics Engineering It is a valuable resource for mastering key concepts in quantum computing and communication suitable for undergraduate to doctoral levels

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Advances in Cryptology - ASIACRYPT 2018 Thomas Peyrin, Steven Galbraith, 2018-11-22 The three volume set of LNCS 11272 11273 and 11274 constitutes the refereed proceedings of the 24th International Conference on the Theory and Application of Cryptology and Information Security ASIACRYPT 2018 held in Brisbane Australia in December 2018 The 65 revised full papers were carefully selected from 234 submissions They are organized in topical sections on Post Quantum Cryptanalysis Encrypted Storage Symmetric Key Constructions Lattice Cryptography Quantum Symmetric Cryptanalysis Zero Knowledge Public Key and Identity Based Encryption Side Channels Signatures Leakage Resilient Cryptography Functional Inner Product Predicate Encryption Multi party Computation ORQM Real World Protocols Secret Sharing Isogeny Cryptography and Foundations

Advances in Cryptology - ASIACRYPT 2017 Tsuyoshi Takagi, Thomas Peyrin, 2017-11-22 The three volume set LNCS 10624 10625 10626 constitutes the refereed proceedings of the 23rd International Conference on the Theory and Applications of Cryptology and Information Security ASIACRYPT 2017 held in Hong Kong China in December 2017 The 65 revised full papers were carefully selected from 243 submissions They are organized in topical sections on Post Quantum Cryptography Symmetric Key Cryptanalysis Lattices Homomorphic Encryptions Access Control Oblivious Protocols Side Channel Analysis Pairing based Protocols Quantum Algorithms Elliptic Curves Block Chains Multi Party Protocols Operating Modes Security Proofs Cryptographic Protocols Foundations Zero Knowledge Proofs and Symmetric Key Designs

The book delves into Quantum Algorithms Via Linear Algebra A Primer. Quantum Algorithms Via Linear Algebra A Primer is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Quantum Algorithms Via Linear Algebra A Primer, encompassing both the fundamentals and more intricate discussions.

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 6. In chapter 5, this book will draw a conclusion about Quantum Algorithms Via Linear Algebra A Primer. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Quantum Algorithms Via Linear Algebra A Primer.

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