

Quantum Algorithms via Linear Algebra

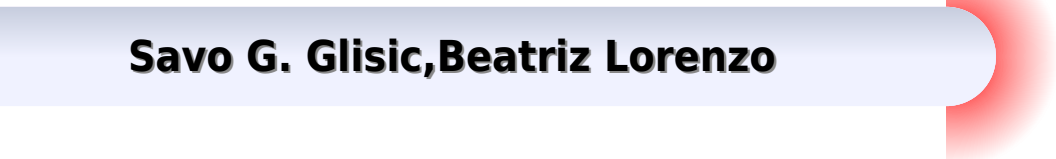
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RICHARD J. LIPTON AND KENNETH W. REGAN



Quantum Algorithms Via Linear Algebra A Primer

Savo G. Glisic, Beatriz Lorenzo



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

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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Quantum Information Science Riccardo Manenti, Mario Motta, 2023 This book explains quantum information the 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

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

Artificial Intelligence and Quantum Computing for Advanced Wireless Networks Savo G. Glisic, Beatriz Lorenzo, 2022-04-11 ARTIFICIAL INTELLIGENCE AND QUANTUM COMPUTING FOR ADVANCED WIRELESS NETWORKS A comprehensive presentation of the implementation of artificial intelligence and quantum computing technology in large scale communication networks Increasingly dense and flexible wireless networks require the use of artificial intelligence AI for planning network deployment optimization and dynamic control Machine learning algorithms are now often used to predict traffic and network state in order to reserve resources for smooth communication with high reliability and low latency In Artificial Intelligence and Quantum Computing for Advanced Wireless Networks the authors deliver a practical and timely review of AI based learning algorithms with several case studies in both Python and R The book discusses the game theory based learning algorithms used in decision making along with various specific applications in wireless networks like channel network state and traffic prediction Additional chapters include Fundamentals of ML Artificial Neural Networks NN Explainable and Graph NN Learning Equilibria and Games AI Algorithms in Networks Fundamentals of Quantum Communications Quantum Channel Information Theory and Error Correction Quantum Optimization Theory and Quantum Internet to name a few The authors offer readers an intuitive and accessible path from basic topics on machine learning through advanced concepts and techniques in quantum networks Readers will benefit from A thorough introduction to the fundamentals of machine learning algorithms including linear and logistic regression decision trees random forests bagging boosting and support vector machines An exploration of artificial neural networks including multilayer neural networks training and backpropagation FIR architecture spatial temporal representations quantum ML quantum information theory fundamentals of quantum internet and more Discussions of explainable neural networks and XAI Examinations of graph neural networks including learning algorithms and linear and nonlinear GNNs in both classical and quantum computing technology Perfect for network engineers researchers and graduate and masters students in computer science and electrical engineering Artificial Intelligence and Quantum Computing for Advanced Wireless Networks is also an indispensable resource for IT support staff along with policymakers and regulators who work in technology

Quantum Computing Strategy Elena Yndurain, 2025-03-17 Quantum computing is not merely an incremental advancement in computing technology it represents a fundamentally new paradigm

distinct from classical computing Rooted in quantum mechanics it introduces an entirely novel information theory As a result translating existing models solution designs and approaches to quantum computing is a complex non trivial task This comprehensive book demystifies quantum concepts through accessible explanations practical case studies and real world examples from industries such as aerospace agriculture automotive chemicals energy finance government healthcare manufacturing supply chain and telecommunications Blending a business perspective with a scientific rigor this book is divided into two parts The first part covers foundational technical concepts including quantum mechanics principles that enable quantum technologies key quantum algorithms mathematical frameworks quantum computing technologies post quantum cryptography the types of problems quantum computers solve and the technology s outlook The second part focuses on practical applicability presenting industry use cases guidance on approaching quantum computing problems mapping use cases to quantum computing responsible quantum computing practices and a roadmap for businesses preparing for quantum adoption This structured approach equips readers with the knowledge and tools to effectively integrate quantum computing into their strategic planning Quantum Computing Strategy Foundations and Applicability serves as an essential reference for technology enthusiasts business leaders policymakers and educators seeking to understand the benefits quantum computing offers enterprises Designed as a self contained learning resource it empowers readers to navigate the emerging quantum landscape confidently *Handbook of Research on Quantum Computing for Smart Environments* Tyagi, Amit

Kumar,2023-03-03 Today computation is an essential component of every technology However there has not been much research on quantum computing even though it has the capability to solve complex problems in an efficient way Further study is required to fully understand the uses and benefits of this technology The Handbook of Research on Quantum Computing for Smart Environments presents investigating physical realizations of quantum computers encoders and decoders including photonic quantum realization cavity quantum electrodynamics and many more topics on Bits to Qubits Covering key topics such as machine learning software quantum algorithms and neural networks this major reference work is ideal for engineers computer scientists physicists mathematicians researchers academicians scholars practitioners instructors and students 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 using 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 solutions in the independent set problem in a graph with two vertices and one edge

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

Whispering the Strategies of Language: An Mental Journey through **Quantum Algorithms Via Linear Algebra A Primer**

In a digitally-driven world wherever screens reign great and quick transmission drowns out the subtleties of language, the profound secrets and mental subtleties concealed within words often go unheard. However, situated within the pages of **Quantum Algorithms Via Linear Algebra A Primer** a interesting fictional prize pulsating with natural emotions, lies an exceptional journey waiting to be undertaken. Composed by a talented wordsmith, this wonderful opus invites readers on an introspective trip, gently unraveling the veiled truths and profound impact resonating within the fabric of every word. Within the psychological depths with this poignant evaluation, we can embark upon a sincere exploration of the book is key themes, dissect its charming writing style, and fail to the powerful resonance it evokes serious within the recesses of readers hearts.

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