

Quantum Algorithms via Linear Algebra

A PRIMER

RICHARD J. LIPTON AND KENNETH W. REGAN



Quantum Algorithms Via Linear Algebra A Primer

Gordon W. F. Drake



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 solution s 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

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

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 Provides an in depth analysis of quantum mechanical principles

Provides a step by step guide in the build up of quantum inspired quantum intelligent information processing systems
 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 *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 **Integration of AI, Quantum Computing, and Semiconductor Technology** Mishra, Brojo Kishore, 2024-10-29 The integration of artificial intelligence AI quantum computing and semiconductor technology offers improved innovation to redefine computational power and capabilities As AI drives advances in machine learning and data processing quantum computing revolutionizes problem solving with its ability to handle complex calculations at improved speeds Advancements in semiconductor technology push the limits of processing efficiency and miniaturization Continued exploration on this convergence may accelerate breakthroughs in various fields such as cryptography material science and healthcare Integration of AI Quantum Computing and Semiconductor Technology explores the intersection of artificial intelligence AI and semiconductor technology within the context of quantum computing It offers a comprehensive analysis of the current advancements challenges and potential applications resulting from this convergence This book covers topics such as cyber security healthcare monitoring and machine learning and is a useful resource for computer engineers energy scientists business owners healthcare administrators environmental scientists academicians and researchers Essentials of Mathematical Methods in Science and Engineering Selcuk S. Bayin, 2019-12-24 A comprehensive introduction to the multidisciplinary applications of mathematical methods revised and updated The second edition of Essentials of Mathematical Methods in Science and Engineering offers an introduction to the key mathematical concepts of advanced calculus differential equations complex analysis and introductory mathematical physics for students in engineering and physics research The book s approachable style is designed in a modular format with each chapter covering a subject thoroughly and thus can be read independently This updated second edition includes two new and extensive chapters that cover practical linear algebra and applications of linear algebra as well as a computer file that includes Matlab codes To enhance understanding of the material presented the text contains a collection of exercises at the end of each chapter The author offers a coherent treatment of the topics with a style that makes the essential

mathematical skills easily accessible to a multidisciplinary audience This important text Includes derivations with sufficient detail so that the reader can follow them without searching for results in other parts of the book Puts the emphasis on the analytic techniques Contains two new chapters that explore linear algebra and its applications Includes Matlab codes that the readers can use to practice with the methods introduced in the book Written for students in science and engineering this new edition of Essentials of Mathematical Methods in Science and Engineering maintains all the successful features of the first edition and includes new information

Quantum Technology and Optimization Problems Sebastian Feld, Claudia Linnhoff-Popien, 2019-03-13 This book constitutes the refereed proceedings of the First International Workshop on Quantum Technology and Optimization Problems QTOP 2019 held in Munich Germany in March 2019 The 18 full papers presented together with 1 keynote paper in this volume were carefully reviewed and selected from 21 submissions The papers are grouped in the following topical sections analysis of optimization problems quantum gate algorithms applications of quantum annealing and foundations and quantum technologies

Springer Handbook of Atomic, Molecular, and Optical Physics Gordon W. F. Drake, 2023-02-09 Comprises a comprehensive reference source that unifies the entire fields of atomic molecular and optical AMO physics assembling the principal ideas techniques and results of the field 92 chapters written by about 120 authors present the principal ideas techniques and results of the field together with a guide to the primary research literature carefully edited to ensure a uniform coverage and style with extensive cross references Along with a summary of key ideas techniques and results many chapters offer diagrams of apparatus graphs and tables of data From atomic spectroscopy to applications in comets one finds contributions from over 100 authors all leaders in their respective disciplines Substantially updated and expanded since the original 1996 edition it now contains several entirely new chapters covering current areas of great research interest that barely existed in 1996 such as Bose Einstein condensation quantum information and cosmological variations of the fundamental constants A fully searchable CD ROM version of the contents accompanies the handbook

Cryptography Panos Louridas, 2024-10-22 A broad introduction to cryptography what it is how it really works what its future holds and why every informed citizen should understand its basics We all keep secrets from our gym locker codes to our email passwords to our online interactions And we choose to share those secrets only with those whom we trust So too do organizations businesses governments and armies In this fascinating book Cryptography Panos Louridas provides a broad and accessible introduction to cryptography the art and science of keeping and revealing secrets Louridas explains just how cryptography works to keep our communications confidential tracing it back all the way to its ancient roots Then he follows its long and winding path to where we are today and reads the signs that point to where it may go tomorrow A few years back interest in cryptography was restricted to specialists Today as we all live our lives attuned to our digital footprint and the privacy issues it entails it becomes more and more essential to have a basic understanding of cryptography and its applications to everyday life Starting with classical cryptography Cryptography takes

the reader all the way up to the twenty first century cryptographic applications that underpin our lives in the digital realm Along the way Louridas also explains concepts such as symmetric cryptography asymmetric cryptography cryptographic protocols and applications and finally quantum and post Quantum cryptography as well as the links between cryptography and computer security

Dancing with Qubits Robert S. Sutor, 2019-11-28 Explore the principles and practicalities of quantum computing Key Features Discover how quantum computing works and delve into the math behind it with this quantum computing textbook Learn how it may become the most important new computer technology of the century Explore the inner workings of quantum computing technology to quickly process complex cloud data and solve problems Book Description Quantum computing is making us change the way we think about computers Quantum bits a.k.a. qubits can make it possible to solve problems that would otherwise be intractable with current computing technology Dancing with Qubits is a quantum computing textbook that starts with an overview of why quantum computing is so different from classical computing and describes several industry use cases where it can have a major impact From there it moves on to a fuller description of classical computing and the mathematical underpinnings necessary to understand such concepts as superposition entanglement and interference Next up is circuits and algorithms both basic and more sophisticated It then nicely moves on to provide a survey of the physics and engineering ideas behind how quantum computing hardware is built Finally the book looks to the future and gives you guidance on understanding how further developments will affect you Really understanding quantum computing requires a lot of math and this book doesn't shy away from the necessary math concepts you'll need Each topic is introduced and explained thoroughly in clear English with helpful examples What you will learn See how quantum computing works delve into the math behind it what makes it different and why it is so powerful with this quantum computing textbook Discover the complex mind bending mechanics that underpin quantum systems Understand the necessary concepts behind classical and quantum computing Refresh and extend your grasp of essential mathematics computing and quantum theory Explore the main applications of quantum computing to the fields of scientific computing AI and elsewhere Examine a detailed overview of qubits quantum circuits and quantum algorithm Who this book is for Dancing with Qubits is a quantum computing textbook for those who want to deeply explore the inner workings of quantum computing This entails some sophisticated mathematical exposition and is therefore best suited for those with a healthy interest in mathematics physics engineering and computer science

Hardware Accelerator Systems for Artificial Intelligence and Machine Learning, 2021-03-28 Hardware Accelerator Systems for Artificial Intelligence and Machine Learning Volume 122 delves into artificial Intelligence and the growth it has seen with the advent of Deep Neural Networks DNNs and Machine Learning Updates in this release include chapters on Hardware accelerator systems for artificial intelligence and machine learning Introduction to Hardware Accelerator Systems for Artificial Intelligence and Machine Learning Deep Learning with GPUs Edge Computing Optimization of Deep Learning Models for Specialized Tensor

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