

Foundations of Quantum Programming

Second Edition



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MORGAN KAUFMANN

Mingsheng Ying

Foundations Of Quantum Programming

Kazunori Ueda



Foundations Of Quantum Programming:

Foundations of Quantum Programming Mingsheng Ying, 2016-03-28 Foundations of Quantum Programming discusses how new programming methodologies and technologies developed for current computers can be extended to exploit the unique power of quantum computers which promise dramatic advantages in processing speed over currently available computer systems Governments and industries around the globe are now investing vast amounts of money with the expectation of building practical quantum computers Drawing upon years of experience and research in quantum computing research and using numerous examples and illustrations Mingsheng Ying has created a very useful reference on quantum programming languages and important tools and techniques required for quantum programming making the book a valuable resource for academics researchers and developers Demystifies the theory of quantum programming using a step by step approach Covers the interdisciplinary nature of quantum programming by providing examples from many different fields including engineering computer science medicine and life sciences Includes techniques and tools to solve complex control flow patterns and synchronize computations Presents a coherent and self contained treatment that will be valuable for academics and industrial researchers and developers

FOUNDATIONS OF QUANTUM PROGRAMMING.

MINGSHENG. YING, 2024 Programming Quantum Computers Eric R. Johnston, Nic Harrigan, Mercedes Gimeno-Segovia, 2019-07-03 Quantum computers are poised to kick start a new computing revolution and you can join in right away If you re in software engineering computer graphics data science or just an intrigued computerphile this book provides a hands on programmer s guide to understanding quantum computing Rather than labor through math and theory you ll work directly with examples that demonstrate this technology s unique capabilities Quantum computing specialists Eric Johnston Nic Harrigan and Mercedes Gimeno Segovia show you how to build the skills tools and intuition required to write quantum programs at the center of applications You ll understand what quantum computers can do and learn how to identify the types of problems they can solve This book includes three multichapter sections Programming for a QPU Explore core concepts for programming quantum processing units including how to describe and manipulate qubits and how to perform quantum teleportation QPU Primitives Learn algorithmic primitives and techniques including amplitude amplification the Quantum Fourier Transform and phase estimation QPU Applications Investigate how QPU primitives are used to build existing applications including quantum search techniques and Shor s factoring algorithm

Theoretical Foundations of Quantum Computing Daowen Qiu, 2025-07-25 Theoretical Foundations of Quantum Computing is an essential textbook for introductory courses in the quantum computing discipline Quantum computing represents a paradigm shift in understanding computation This textbook delves into the principles of quantum mechanics that underpin this revolutionary technology making it invaluable for undergraduate and graduate students in computer science and related fields Structured into eight meticulously crafted chapters it covers everything from the historical context of quantum computing to advanced theories

and applications The book includes core topics such as basic models quantum algorithms cryptography communication protocols complexity and error correction codes Each chapter builds upon the last ensuring a robust understanding of foundational concepts and cutting edge research It serves as both a foundational resource for students and a comprehensive guide for researchers interested in quantum computing Its clarity makes it an excellent reference for deepening understanding or engaging in advanced research Provides a simple unified and systematic introductory approach to quantum computing Contains newly refined and up to date topic knowledge Introduces more computer related knowledge to assist in subsequent learning Requires only a small amount of mathematical knowledge for students to grasp the concepts

Programming Languages and Systems Kazunori Ueda, 2010-11-19 The 23 papers presented together with 4 invited papers 2 system and tool presentations and 1 tutorial lecture were carefully reviewed and selected from 95 initial submissions The papers are devoted to both foundational and practical issues in programming languages and systems and feature current research in the following areas semantics logics foundational theory design of languages and foundational calculi type systems compilers interpreters abstract machines program derivation analysis transformation software security safety verification concurrency constraints domain specific languages as well as tools for programming verification and implementation

Mathematical Foundations of Quantum Computing: A Scaffolding Approach Peter Y. Lee, James M. Yu, Ran Cheng, 2025-03-14 Quantum Computing and Information QCI requires a shift in mathematical thinking going beyond the traditional applications of linear algebra and probability This book focuses on building the specialized mathematical foundation needed for QCI explaining the unique roles of matrices outer products tensor products and the Dirac notation Special matrices crucial to quantum operations are explored and the connection between quantum mechanics and probability theory is made clear Recognizing that diving straight into advanced concepts can be overwhelming this book starts with a focused review of essential preliminaries like complex numbers trigonometry and summation rules It serves as a bridge between traditional math education and the specific requirements of quantum computing empowering learners to confidently navigate this fascinating and rapidly evolving field

Mathematical Foundations of Information Flow

Samson Abramsky, Michael W. Mislove, 2012 This volume is based on the 2008 Clifford Lectures on Information Flow in Physics Geometry and Logic and Computation held March 12 15 2008 at Tulane University in New Orleans Louisiana The varying perspectives of the researchers are evident in the topics represented in the volume including mathematics computer science quantum physics and classical and quantum information A number of the articles address fundamental questions in quantum information and related topics in quantum physics using abstract categorical and domain theoretic models for quantum physics to reason about such systems and to model spacetime Readers can expect to gain added insight into the notion of information flow and how it can be understood in many settings They also can learn about new approaches to modeling quantum mechanics that provide simpler and more accessible explanations of quantum phenomena which don't

require the arcane aspects of Hilbert spaces and the cumbersome notation of bras and kets High Level Structures for Quantum Computing Jaroslaw Miszczak, 2022-05-31 This book is concerned with the models of quantum computation Information processing based on the rules of quantum mechanics provides us with new opportunities for developing more efficient algorithms and protocols However to harness the power offered by quantum information processing it is essential to control the behavior of quantum mechanical objects in a precise manner As this seems to be conceptually difficult at the level of quantum states and unitary gates high level quantum programming languages have been proposed for this purpose The aim of this book is to provide an introduction to abstract models of computation used in quantum information theory Starting from the abstract models of Turing machine and finite automata we introduce the models of Boolean circuits and Random Access Machine and use them to present quantum programming techniques and quantum programming languages Table of Contents Introduction Turing machines Quantum Finite State Automata Computational Circuits Random Access Machines Quantum Programming Environment Quantum Programming Languages Imperative quantum programming Functional Quantum Programming Outlook Logic and Algebraic Structures in Quantum Computing Jennifer Chubb, Ali Eskandarian, Valentina Harizanov, 2016-02-26 Arising from a special session held at the 2010 North American Annual Meeting of the Association for Symbolic Logic this volume is an international cross disciplinary collaboration with contributions from leading experts exploring connections across their respective fields Themes range from philosophical examination of the foundations of physics and quantum logic to exploitations of the methods and structures of operator theory category theory and knot theory in an effort to gain insight into the fundamental questions in quantum theory and logic The book will appeal to researchers and students working in related fields including logicians mathematicians computer scientists and physicists A brief introduction provides essential background on quantum mechanics and category theory which together with a thematic selection of articles may also serve as the basic material for a graduate course or seminar Foundations of Probability and Physics - 5 Luigi Accardi, 2009-04-03 This conference was devoted to fundamental questions raised by quantum mechanics especially in quantum information theory As has become customary in our series of conference in V xj we were glad to welcome a fruitful assembly of theoretical physicists experimentalists mathematicians and even philosophers interested in the foundations of probability and physics This conference belongs to the series of V xj conferences in foundations of quantum mechanics especially probabilistic foundations combined of two subseries Foundations of Probability and Physics 2000 02 04 06 08 and Quantum Theory Reconsideration of Foundations 2001 03 05 07 We also mention the first V xj conference Bohmian mechanics 2000 This is definitely the longest series of conferences on foundations in the history of quantum mechanics **Model Checking Quantum Systems** Mingsheng Ying, Yuan Feng, 2021-02-04 The first book introducing computer aided verification techniques for quantum systems with quantum computing and communication hardware **Foundations of Parallel Programming** Theodore Gyle Lewis, 1993 Mathematics of Computing Parallelism

Quantum Programming in Action Clare Milan, 2025-09-28 Quantum Programming in Action A Complete Guide to Qubits Circuits and Algorithms with Python and Qiskit Unlock the future of computing with this practical hands on guide to quantum programming Whether you are new to the subject or an experienced developer eager to explore this cutting edge field this book walks you step by step through the principles tools and applications that are shaping the next generation of technology Quantum computing is no longer a distant concept it is here and programmers researchers and industry experts are already experimenting with real quantum hardware This book is designed to help you bridge the gap between theory and practice by using Python and Qiskit IBM s powerful open source framework Inside you will learn The foundations of quantum computing qubits superposition entanglement and measurement explained with clarity and practical examples How to program with Qiskit from installing your environment to building and running circuits on simulators and real IBM Quantum devices Core quantum algorithms Deutsch Jozsa Grover s search and Shor s factoring implemented step by step with annotated code Variational and hybrid algorithms like QAOA and VQE that bring together classical and quantum computing for near term applications Real world applications in finance chemistry logistics and machine learning that demonstrate the transformative potential of quantum technology Noise and error mitigation techniques to prepare you for the challenges of real quantum hardware Career insights to help you understand how to position yourself in this growing industry This book doesn t just explain concepts it shows you how to put them into practice Every chapter includes clear definitions worked out examples authentic Qiskit code and practical exercises that let you experiment with circuits and algorithms on your own You ll move from learning the basics to writing real quantum programs with confidence Whether your goal is to build a career in quantum computing strengthen your research or simply explore one of the most exciting areas of modern technology this book gives you the knowledge and skills you need Why You Need This Book If you re a developer you ll gain a concrete pathway from classical programming into the quantum programming space If you re a researcher or student you ll learn how to connect mathematical theory with hands on coding If you re an industry professional you ll see how quantum computing applies directly to real world problems in optimization simulation and data science

Foundations of Software Technology and Theoretical Computer Science ,1999 Classical and Quantum Computing Yorick Hardy, Willi H. Steeb, 2012-12-06

Classical and Quantum computing provides a self contained systematic and comprehensive introduction to all the subjects and techniques important in scientific computing The style and presentation are readily accessible to undergraduates and graduates A large number of examples accompanied by complete C and Java code wherever possible cover every topic Features and benefits Comprehensive coverage of the theory with many examples Topics in classical computing include boolean algebra gates circuits latches error detection and correction neural networks Turing machines cryptography genetic algorithms For the first time genetic expression programming is presented in a textbook Topics in quantum computing include mathematical foundations quantum algorithms quantum information theory hardware used in quantum computing

Description Francisco Rios, 2021 This thesis contains contributions to the mathematical foundations of quantum programming languages The likely arrival of scalable quantum computers in the not so distant future has resulted in a flurry of activity in the development of quantum programming languages As in classical computing the transition from a description of a quantum algorithm found in the literature to a hardware specific set of instructions run on a quantum device is a complex process prone to errors This issue is exacerbated in the quantum setting not only by the complexity of quantum algorithms but also by the fragility of quantum information which renders ineffective some of the classical techniques used to debug programs In this thesis we contribute to the solution of some of these issues We introduce Proto Quipper M a new quantum programming language designed to serve as a testbed for the research and development of sound mathematical semantics and reasoning techniques for quantum programs We first present Proto Quipper M as a formalization of a fragment of Quipper a high level functional programming language for describing families of quantum circuits In particular we define Proto Quipper M as a simply typed lambda calculus with a special type for quantum circuits and a strong type system designed to enforce linearity on quantum data and thus prevent violations of the no cloning property of quantum information We endow Proto Quipper M with computational meaning via a big step operational semantics and prove that the language is type safe by showing that it enjoys the type preservation and error freeness properties We also give Proto Quipper M a denotational semantics in a suitable class of monoidal categories and show that these categories give rise to linear non linear models in the sense of Benton and thus models of intuitionistic linear logic Finally we crystallize the connection between the syntax and the semantics of the language by proving the soundness theorem for Proto Quipper M

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