

IntroQuantum, 2000, 138 pages, Arthur O. Pittenger, 0817641270, 9780817641276,
Birkhuser, 2000

The purpose of this monograph is to provide the mathematically literate reader with an accessible introduction to the theory of quantum computing algorithms, one component of a fascinating and rapidly developing area which involves topics from physics, mathematics, and computer science. The author briefly describes the historical context of quantum computing and provides the motivation, notation, and assumptions appropriate for quantum statics, a non-dynamical, finite dimensional model of quantum mechanics. This model is then used to define and illustrate quantum logic gates and representative subroutines required for quantum algorithms. A discussion of the basic algorithms of Simon and of Deutsch and Jozsa sets the stage for the presentation of Grover's search algorithm and Shor's factoring algorithm, key algorithms which crystallized interest in the practicality of quantum computers. A group theoretic abstraction of Shor's algorithms completes the discussion of algorithms. The last third of the book briefly elaborates the need for error-correction capabilities and then traces the theory of quantum error-correcting codes from the earliest examples to an abstract formulation in Hilbert space. This text is a good self-contained introductory resource for newcomers to the field of quantum computing algorithms, as well as a useful self-study guide for the more specialized scientist, mathematician, graduate student, or engineer. Readers interested in following the ongoing developments of quantum algorithms will benefit particularly from this presentation of the notation and basic theory. Series: Progress in Computer Science and Applied Logic, Volume 19 Contents Preface Acknowledgements 1. Quantum Statics 1.1 Context 1.2 Experimental motivation for quantum mechanics 1.3 The basic model 1.4 The basic example: spin-1/2 particles 1.5 Dirac notation 1.6 Unitary transformations 2. Basics of Quantum Computation 2.1 Qubits and tensor products 2.2 The basic strategy of quantum algorithms 2.3 Quantum gates 2.4 Quantum subroutines: addition on a quantum computer 2.5 Quantum subroutines: a teleportation circuit 3. Quantum Algorithms 3.1 Deutsch-Jozsa algorithm 3.2 Simon's algorithm 3.3 Grover's algorithm 3.4 Shor's algorithm: factoring $N=15$ 3.5 Shor's algorithm: factoring $N=pq$ 3.6 The finite Fourier transform 3.7 Eigenvalues in quantum algorithms 3.8 Group theory and quantum algorithms 4. Quantum Error-Correcting Codes 4.1 Quantum dynamics and decoherence 4.2 Error correction 4.3 Shor's nine qubit error-correcting code 4.4 A seven qubit error-correcting code 4.5 A five qubit error-correction code 4.6 Stabilizers and the five qubit code 4.7 Theoretical aspects of stabilizer codes 4.8 CSS codes 4.9 Abstract quantum error correction 4.10 Further aspects of quantum error-correcting codes Afterword References Index

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Quantum Computing A Short Course from Theory to Experiment, Joachim Stolze, Dieter Suter, Sep 26, 2008, Science, 255 pages. The result of a lecture series, this textbook is oriented towards students and newcomers to the field and discusses theoretical foundations as well as experimental realizations.

Quantum Computing and Communications , Michael Brooks, Jan 1, 1999, Computers, 152 pages. The first handbook to provide a comprehensive inter-disciplinary overview of QCC. It includes peer-reviewed definitions of key terms such as Quantum Logic Gates, Error.

Computational and Experimental Group Theory AMS-ASL Joint Special Session, Interactions Between Logic, Group Theory, and Computer Science, January 15-16, 2003, Baltimore, Maryland, Alexandre Borovik, Alexei G. Myasnikov, 2004, Mathematics, 224 pages. Since its origin in the early 20th century, combinatorial group theory has been primarily concerned with algorithms for solving particular problems on groups given by.

Mathematics of Quantum Computation , Ranee K. Brylinski, Goong Chen, Feb 14, 2002, Mathematics, 448 pages. Among the most exciting developments in science today is the design and construction of the quantum computer. Its realization will be the result of multidisciplinary efforts.

Cyclic networks of quantum gates , Peter Cabauy, 2002, , . .

Classical and Quantum Computation , Alexei Yu. Kitaev, Alexander Shen, Mikhail N. Vyalyi, 2002, Mathematics, 257 pages. This book presents a concise introduction to an emerging and increasingly important topic, the theory of quantum computing. The development of quantum computing exploded in.

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Quantum Approach to Informatics , Stig Stenholm, Kalle-Antti Suominen, Sep 2, 2005, Computers, 280 pages. An essential overview of quantum information, whether inscribed as a mark on a stone tablet or encoded as a magnetic domain on a hard drive, must be stored in a.

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Entanglement, Information, and the Interpretation of Quantum Mechanics , Gregg Jaeger, Jun 12, 2009, Computers, 321 pages. This book explores the nature of quantum entanglement and quantum information and their role in the quantum world. Their relations to a number of key experiments and thought.

Quantum Computing , Mika Hirvensalo, Feb 12, 2004, Computers, 214 pages. After the first edition of this book was published, I received much positive feedback from the readers. It was very helpful to have all those comments suggesting improvements.

Introduction to the Theory of Quantum Information Processing , Jγnos A. Bergou, Mark Hillery, May 18, 2013, Electronic books, 161 pages. Introduction to the Theory of Quantum Information Processing provides the material for a one-semester graduate level course on quantum information theory and quantum computing.

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The Midwife's Tale An Oral History from Handywoman to Professional Midwife, Nicky Leap, 1993, Medical, 215 pages
Knowing Right, and Walking Left , Kathleen Hall, 2004, Biography & Autobiography, 134 pages. I sat in the floor of our home indian style. My hand over my face sobbing. I could hear my children as they played around me but their voices sounded distant. I sat waiting

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