

QUANTUM LOGIC GATES

INPUT		OUTPUT	
A	B	A	B
0	0	0	0
0	1	0	1
1	0	1	1
1	1	1	0

WHICH LOGIC GATE DOES THIS TRUTH TABLE CORESPOND TO?

0 ——— \oplus ———

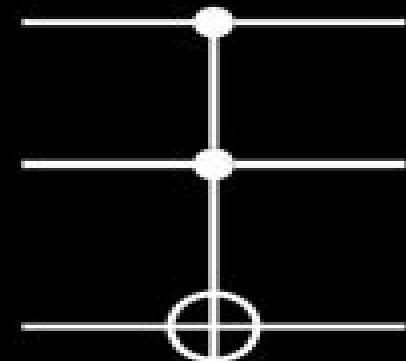
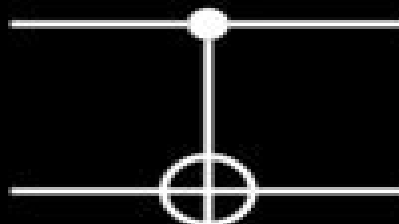
1

1 ——— \oplus ———

0

1). NOT

2). C-NOT



3). CCNOT

Quantum Gate

Vera M. Schäfer



Quantum Gate:

Foundations of Software Technology and Theoretical Computer Science V. Arvind, R. Ramanujam, 2004-01-24 This book constitutes the refereed proceedings of the 18th Conference on Foundations of Software Technology and Theoretical Computer Science FSTTCS 98 held in Chennai India in December 1998 The 28 revised full papers presented were carefully selected from a total of 93 submissions also included are six invited contributions The papers deal with theoretical topics ranging from discrete mathematics and algorithmic aspects to software engineering program semantics and mathematical logic

Architecture and Design of Molecule Logic Gates and Atom Circuits Nicolas Lorente, Christian Joachim, 2013-02-01 Have you ever puzzled over how to perform Boolean logic at the atomic scale Or wondered how you can carry out more general calculations in one single molecule or using a surface dangling bond atomic scale circuit This volume gives you an update on the design of single molecule devices such as rectifiers switches and transistors more advanced semi classical and quantum boolean gates integrated in a single molecule or constructed atom by atom on a passivated semi conductor surface and describes their interconnections with adapted nano scale wiring The main contributors to the field of single molecule logic gates and surface dangling bond atomic scale circuits theory and design were brought together for the first time to contribute on topics such as molecule circuits surface dangling bond circuits quantum controlled logic gates and molecular qubits Contributions in this volume originate from the Barcelona workshop of the AtMol conference series held from January 12 13 2012

Quantum Biocomputing in Quantum Biology Volume II Hafiz Md. Hasan Babu, 2025-07-02 The book starts with the basics of Quantum Computing Biocomputing Quantum Biology Quantum DNA Computing and DNA Quantum Computing It also discusses the fundamental operations in quantum computing and Biocomputing Different types of quantum arithmetic circuits quantum DNA arithmetic circuits and DNA quantum arithmetic circuits such as basic and universal gate operations half adder full adder half subtractor full subtractor N qubit adders multipliers dividers etc are explained clearly Nuclear Magnetic Resonance NMR NMR relaxation quantum cache memory heat conduction circuit and trap ion are also discussed The readers can get a clear idea about different types of quantum quantum DNA and DNA quantum circuits such as arithmetic combinational sequential memory devices programmable logic devices nano processors and will be able to design their own circuits Then it discusses Heat Measurement Speed Calculation Heat Transfer Data Conversion and Data Management in Quantum Computing and Quantum Biocomputing Quantum DNA Computing and DNA Quantum Computing As a whole this book is a great resource for quantum quantum DNA and DNA Quantum Computing it is the book where computing in quantum biology is introduced for the quantum biology researchers students and academicians This is a novel approach to writing a book in this field This book quenches the thirst of beginners to advanced level readers

Proceedings of the Future Technologies Conference (FTC) 2021, Volume 3 Kohei Arai, 2021-10-24 This book provides the state of the art intelligent methods and techniques for solving real world problems along with a vision of the

future research The sixth Future Technologies Conference 2021 was organized virtually and received a total of 531 submissions from academic pioneering researchers scientists industrial engineers and students from all over the world The submitted papers covered a wide range of important topics including but not limited to technology trends computing artificial intelligence machine vision communication security e learning and ambient intelligence and their applications to the real world After a double blind peer reviewed process 191 submissions have been selected to be included in these proceedings One of the meaningful and valuable dimensions of this conference is the way it brings together a large group of technology geniuses in one venue to not only present breakthrough research in future technologies but also to promote discussions and debate of relevant issues challenges opportunities and research findings We hope that readers find the volume interesting exciting and inspiring

Reversible Computation Michael Kirkedal Thomsen, Mathias Soeken, 2019-06-17 This book constitutes the refereed proceedings of the 11th International Conference on Reversible Computation RC 2019 held in Lausanne Switzerland in June 2019 The 12 full papers and two short papers included in this volume were carefully reviewed and selected from 22 submissions One invited talk is also included The papers are organized in the following topical sections theory and foundation programming languages circuit synthesis evaluation of circuit synthesis and applications and implementations

Adaptive Computing in Design and Manufacture VI I.C. Parmee, 2011-06-27 The Adaptive Computing in Design and Manufacture conference series has become a well established largely application oriented meeting recognised by several UK Engineering Institutions and the International Society of Genetic and Evolutionary Computing The main theme of the series relates to the integration of evolutionary and adaptive computing technologies with design and manufacturing processes whilst also taking into account complementary advanced computing technologies Evolutionary and adaptive computing techniques continue to increase their penetration of industrial and commercial practice as awareness of their powerful search exploration and optimisation capabilities becomes ever more prevalent and increasing desk top computational capability renders stochastic population based search a far more viable proposition There has been a significant increase in the development and integration of commercial software tools utilising adaptive computing technologies and the emergence of related commercial research and consultancy organisations supporting the introduction of best practice in terms of industrial utilisation The book is comprised of selected papers that cover a diverse set of industrial application areas including engineering design and design environments and manufacturing process design scheduling and control Various aspects of search exploration and optimisation are investigated in the context of integration with industrial processes including multi objective and constraint satisfaction development and utilization of meta models algorithm and strategy development and human centric evolutionary approaches The role of agent based and neural net technologies in terms of supporting search processes and providing an alternative simulation environment is also explored This collection of papers will be of particular interest to both industrial researchers and practitioners in addition to the

academic research communities across engineering operational research and computer science **VLSI Design and Test**
S. Rajaram,N.B. Balamurugan,D. Gracia Nirmala Rani,Virendra Singh,2019-01-24 This book constitutes the refereed
proceedings of the 22st International Symposium on VLSI Design and Test VDAT 2018 held in Madurai India in June 2018
The 39 full papers and 11 short papers presented together with 8 poster papers were carefully reviewed and selected from
231 submissions The papers are organized in topical sections named digital design analog and mixed signal design hardware
security micro bio fluidics VLSI testing analog circuits and devices network on chip memory quantum computing and NoC
sensors and interfaces **Reversible and DNA Computing** Hafiz M. H. Babu,2020-08-12 Master the subjects of reversible
computing and DNA computing with this expert volume Reversible and DNA Computing offers readers new ideas and
technologies in the rapidly developing field of reversible computing World renowned researcher and author Hafiz Md Hasan
Babu shows readers the fundamental concepts and ideas necessary to understand reversible computing including reversible
circuits reversible fault tolerant circuits and reversible DNA circuits Reversible and DNA Computing contains a practical
approach to understanding energy efficient DNA computing In addition to explaining the foundations of reversible circuits
the book covers topics including Advanced logic design An introduction to the fundamentals of reversible computing
Advanced reversible logic synthesis Reversible fault tolerance Fundamentals of DNA computing Reversible DNA logic
synthesis DNA logic design This book is perfect for undergraduate and graduate students in the physical sciences and
engineering as well as those working in the field of quantum computing It belongs on the bookshelves of anyone with even a
passing interest in nanotechnology energy efficient computing and DNA computing *Complexity from Microscopic to
Macroscopic Scales: Coherence and Large Deviations* A.T. Skjeltorp,Tamas Vicsek,2012-12-06 Many mesoscopic systems
display adaptive behaviour changes in some physical property that results from a small change in an internal or external
driving force There is a kind of progression in adaptive phenomena from quantum mesoscopics to complex evolved
cooperative systems and large scale events like turbulence The field of mesoscopic magnetism especially quantum coherence
and quantum tunnelling in spin systems and the coupling between mesoscopic magnetism and mesoscopic transport is
currently a very active area of solid state physics Dephasing is an important concept in mesoscopic systems like these A basic
question is the limit at which quantum mechanics breaks down and what it can be replaced with Another interesting
crossover is that between complexity and large excursions or events with turbulence as a prototype example The book also
contains a discussion of finance Qualitatively speaking turbulence and financial markets are apparently similar so our
understanding of turbulence may be relevant to understanding price fluctuations Wireless Artificial Intelligent
Computing Systems and Applications Zhipeng Cai,Yongxin Zhu,Yonghao Wang,Meikang Qiu,2025-06-22 The 3 volume set
LNCS 15686 15688 constitutes the proceedings of the 19th International Conference on Wireless Artificial Intelligent
Computing Systems and Applications WASA 2025 which took place in Tokyo Japan during June 24 26 2025 The 70 full papers

and 34 short papers included in the proceedings were carefully reviewed and selected from 282 submissions The proceedings also contain 10 papers from the ACom2 symposium WASA is a prestigious annual gathering that serves as a global platform for researchers academics and industry professionals to explore and exchange cuttingedge ideas research findings and innovative solutions at the dynamic intersection of wireless technologies and artificial intelligence AI computing systems

Computing and Combinatorics Hung Q. Ngo,2009-07-11 The papers in this volume were selected for presentation at the 15th Annual InternationalComputing and CombinatoricsConference COCOON 2009 held during July 13 15 2009 in Niagara Falls New York USA Previous meetings of this conference were held in Xian 1995 Hong Kong 1996 Shanghai 1997 Taipei 1998 Tokyo 1999 Sydney 2000 Guilin 2001 Singapore 2002 Big Sky 2003 Jeju Island 2004 Kunming 2005 Taipei 2006 Alberta 2007 and Dalian 2008 In response to the Call for Papers 125 extended abstracts not counting withdrawn papers were submitted from 28 countries and regions of which 51 were accepted Authors of the submitted papers were from Cyprus 1 The Netherlands 1 Bulgaria 1 Israel 1 Vietnam 2 Finland 1 Puerto Rico 2 Australia 4 Norway 4 Portugal 1 Spain 2 France 16 Republic of Korea 3 Singapore 2 Italy 6 Iran 4 Greece 7 Poland 4 Switzerland 8 Hong Kong 10 UK 12 India 7 Taiwan 18 Canada 23 China 19 Japan 39 Germany 44 and the USA 77 The submitted papers were evaluated by an international Technical Program Committee TPC consisting of Srinivas Aravamudan Iowa State University USA Lars Arge University of Aarhus Denmark Vikraman Arvind Institute of Mathematical Sciences India James Aspnes Yale University USA Mikhail Atallah Purdue University USA Gill Barequet Technion Israel Institute of Technology Israel Michael Brudno University of Toronto Canada Jianer Chen Texas A M USA Bhaskar DasGupta University of Illinois at Chicago USA Anupam Gupta Carnegie Mellon University USA Lane A *Rewriting Logic and Its Applications* Kazuhiro Ogata,Narciso Martí-Oliet,2024-08-01 This book constitutes revised selected papers from the refereed proceedings of the 15th International Workshop on Rewriting Logic and Its Applications WRLA 2024 held in Luxembourg City Luxembourg during April 6 7 2024 The 11 full papers included in this book were carefully reviewed and selected from 16 submissions They focus on several topics e g foundations rewriting as a logical and semantic framework rewriting languages verification techniques applications and education **Future Trends of HPC in a Disruptive Scenario** L. Grandinetti,G.R. Joubert,K. Michielsen,2019-09-27 The realization that the use of components off the shelf COTS could reduce costs sparked the evolution of the massive parallel computing systems available today The main problem with such systems is the development of suitable operating systems algorithms and application software that can utilise the potential processing power of large numbers of processors As a result systems comprising millions of processors are still limited in the applications they can efficiently solve Two alternative paradigms that may offer a solution to this problem are Quantum Computers QC and Brain Inspired Computers BIC This book presents papers from the 14th edition of the biennial international conference on High Performance Computing From Clouds and Big Data to Exascale and Beyond held in Cetraro Italy from 2 6 July 2018 It is divided into 4 sections covering data science quantum computing

high performance computing and applications The papers presented during the workshop covered a wide spectrum of topics on new developments in the rapidly evolving supercomputing field including QC and BIC and a selection of contributions presented at the workshop are included in this volume In addition two papers presented at a workshop on Brain Inspired Computing in 2017 and an overview of work related to data science executed by a number of universities in the USA parts of which were presented at the 2018 and previous workshops are also included The book will be of interest to all those whose work involves high performance computing

Reversible Computation Gerhard W. Dueck, D. Michael Miller, 2013-06-29 This book constitutes the refereed proceedings of the 5th International Conference on Reversible Computation RC 2013 held in Victoria BC Canada in July 2013 The 19 contributions presented together with one invited paper were carefully reviewed and selected from 37 submissions The papers are organized in topical sections on physical implementation arithmetic programming and data structures modelling synthesis and optimization and alternative technologies

Fast Gates and Mixed-Species Entanglement with Trapped Ions Vera M. Schäfer, 2020-03-04 Quantum logic gates are the crucial information processing operation of quantum computers Two crucial performance metrics for logic gates are their precision and speed Quantum processors based on trapped ions have always been the touchstone for gate precision but have suffered from slow speed relative to other quantum logic platforms such as solid state systems This thesis shows that it is possible to accelerate the logic clock speed from kHz to MHz speeds whilst maintaining a precision of 99.8% This is almost as high as the world record for conventional trapped ion gates but more than 20 times faster It also demonstrates entanglement generation in a time 480 ns shorter than the natural timescale of the ions motion in the trap which starts to probe an interesting new regime of ion trap physics In separate experiments some of the first mixed species quantum logic gates are performed both between two different elements and between different isotopes The mixed isotope gate is used to make the first test of the quantum mechanical Bell inequality between two different species of isolated atoms

Atomic Physics 15: Proceedings Of The Fifteenth International Conference On Atomic Physics... H B Van Linden Van Den Heuvel, J T M Walraven, M W Reynolds, 1997-07-01 Atomic Physics 15 extends the series of books containing the invited papers presented at each International Conference on Atomic Physics ICAP The ICAP held every two years provides the atomic physics community with an opportunity to review problems of current interest and to consider future directions in the field This fifteenth meeting also celebrated the centenary of the discovery of the Zeeman effect

Next Generation Data Science and Blockchain Technology for Industry 5.0 Amit Kumar Tyagi, 2025-07-29 A groundbreaking view of the industrial models of the future Industry 5.0 is an increasingly widespread term for the coming business paradigm which will combine humans robotics and smart technology to create the industrial processes of the future Technological innovations like smart factories networked processes data science blockchain and more will be combined to revolutionize industry and drive innovation at an unprecedented pace Next Generation Data Science and Blockchain Technology for Industry 5.0 offers an overview of these

most important questions their early answers and the most promising paths forward Incorporating practical case studies grounded in real world data the book emphasizes a hands on approach combining numerous analytical tools With a broad view of the historical role of industrial revolutions and a cutting edge grasp of the key technologies this book is an indispensable window into the future of business Next Generation Data Science and Blockchain Technology for Industry 5 0 readers will also find Incorporation of tools including statistical analysis machine learning graph analysis and more Detailed treatment of cutting edge technologies like additive manufacture 3D printing edge computing and many others Self assessment tools to facilitate understanding Next Generation Data Science and Blockchain Technology for Industry 5 0 is ideal for academics researchers and advanced students in computer science and computer technology as well as professionals and researchers working in data science or any other area of industrial technology

Third Congress on Intelligent Systems Sandeep Kumar, Harish Sharma, K. Balachandran, Joong Hoon Kim, Jagdish Chand Bansal, 2023-05-18 This book is a collection of selected papers presented at the Third Congress on Intelligent Systems CIS 2022 organized by CHRIST Deemed to be University Bangalore India under the technical sponsorship of the Soft Computing Research Society India during September 5 6 2022 It includes novel and innovative work from experts practitioners scientists and decision makers from academia and industry It covers topics such as the Internet of Things information security embedded systems real time systems cloud computing big data analysis quantum computing automation systems bio inspired intelligence cognitive systems cyber physical systems data analytics data web mining data science intelligence for security intelligent decision making systems intelligent information processing intelligent transportation artificial intelligence for machine vision imaging sensors technology image segmentation convolutional neural network image video classification soft computing for machine vision pattern recognition human computer interaction robotic devices and systems autonomous vehicles intelligent control systems human motor control game playing evolutionary algorithms swarm optimization neural network deep learning supervised learning unsupervised learning fuzzy logic rough sets computational optimization and neuro fuzzy systems

Towards a Design Flow for Reversible Logic Robert Wille, Rolf Drechsler, 2010-07-28 The development of computing machines found great success in the last decades But the ongoing miniaturization of integrated circuits will reach its limits in the near future Shrinking transistor sizes and power dissipation are the major barriers in the development of smaller and more powerful circuits Reversible logic provides an alternative that may overcome many of these problems in the future For low power design reversible logic offers significant advantages since zero power dissipation will only be possible if computation is reversible Furthermore quantum computation profits from enhancements in this area because every quantum circuit is inherently reversible and thus requires reversible descriptions However since reversible logic is subject to certain restrictions e.g. fanout and feedback are not directly allowed the design of reversible circuits significantly differs from the design of traditional circuits Nearly all steps in the design flow like synthesis verification or debugging must be redeveloped so

that they become applicable to reversible circuits as well But research in reversible logic is still at the beginning No continuous design now exists so far In this book contributions to a design now for reversible logic are represented This includes advanced methods for synthesis optimization verification and debugging

Advances in Computation and Intelligence

Zhihua Cai, Zhenhua Li, 2009-10-05 Volumes CCIS 51 and LNCS 5812 constitute the proceedings of the Fourth International Symposium on Intelligence Computation and Applications ISICA 2009 held in Huangshi China during October 23-25 ISICA 2009 attracted over 300 submissions Through rigorous reviews 58 papers were included in LNCS 5821 and 54 papers were collected in CCIS 51 ISICA conferences are one of the first series of international conferences on computational intelligence that combine elements of learning adaptation evolution and fuzzy logic to create programs as alternative solutions to artificial intelligence

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