Quantum Information Science

Olimpia Lombardi,Sebastian Fortin,Federico Holik,Cristian López

Quantum Information Science:

 Quantum Information Science Riccardo Manenti,Mario Motta,2023-08-02 This book provides an introduction to quantum information science the science at the basis of the new quantum revolution of this century It teaches the reader to build and program a quantum computer and leverage its potential Aimed at quantum physicists and computer scientists the book covers several topics including quantum algorithms quantum chemistry and quantum engineering of superconducting qubits Written by two professionals in the experimental and theoretical fields of quantum information science and containing over 200 figures and 100 exercises with solutions and summaries at the end of each chapter this book is set to become a new standard in the field Introduction to Quantum Information Science Vlatko Vedral,2006-09-28 In addition to treating quantum communication entanglement and algorithms this book also addresses a number of miscellaneous topics such as Maxwell s demon Landauer s erasure the Bekenstein bound and Caratheodory s treatment of the Second law of thermodyanmics **Fundamentals of Quantum Information** Dieter Heiss,2002-09-18 Quantum information science is a rapidly developing field that not only promises a revolution in computer sciences but also touches deeply the very foundations of quantum physics This book consists of a set of lectures by leading experts in the field that bridges the gap between standard textbook material and the research literature thus providing the ne cessary background for postgraduate students and non specialist researchers wishing to familiarize themselves with the subject thoroughly and at a high level This volume is ideally suited as a course book for postgraduate students and lecturers will find in it a large choice of material for bringing their courses up to date *Fundamentals of Quantum Information* Dieter Heiss,2008-01-11 Quantum information science is a rapidly developing field that not only promises a revolution in computer sciences but also touches deeply the very foundations of quantum physics This book consists of a set of lectures by leading experts in the field that bridges the gap between standard textbook material and the research literature thus providing the ne cessary background for postgraduate students and non specialist researchers wishing to familiarize themselves with the subject thoroughly and at a high level This volume is ideally suited as a course book for postgraduate students and lecturers will find in it a large choice of material for bringing their courses up to date **The Theory of Quantum Information** John Watrous,2018-04-26 Formal development of the mathematical theory of quantum information with clear proofs and exercises For graduate students and researchers

 Quantum Computation and Quantum Information Michael A. Nielsen,Isaac L. Chuang,2000-10-23 First ever comprehensive introduction to the major new subject of quantum computing and quantum information **Introduction to Quantum Information Science** Masahito Hayashi,Satoshi Ishizaka,Akinori Kawachi,Gen Kimura,Tomohiro Ogawa,2014-08-22 This book presents the basics of quantum information e g foundation of quantum theory quantum algorithms quantum entanglement quantum entropies quantum coding quantum error correction and quantum cryptography The required knowledge is only elementary calculus and linear algebra This way the book can be understood by

undergraduate students In order to study quantum information one usually has to study the foundation of quantum theory This book describes it from more an operational viewpoint which is suitable for quantum information while traditional textbooks of quantum theory lack this viewpoint The current book bases on Shor s algorithm Grover s algorithm Deutsch Jozsa s algorithm as basic algorithms To treat several topics in quantum information this book covers several kinds of information quantities in quantum systems including von Neumann entropy The limits of several kinds of quantum information processing are given As important quantum protocols this book contains quantum teleportation quantum dense coding quantum data compression In particular conversion theory of entanglement via local operation and classical communication are treated too This theory provides the quantification of entanglement which coincides with von Neumann entropy The next part treats the quantum hypothesis testing The decision problem of two candidates of the unknown state are given The asymptotic performance of this problem is characterized by information quantities Using this result the optimal performance of classical information transmission via noisy quantum channel is derived Quantum information transmission via noisy quantum channel by quantum error correction are discussed too Based on this topic the secure quantum communication is explained In particular the quantification of quantum security which has not been treated in existing book is explained This book treats quantum cryptography from a more practical viewpoint *Quantum Information* Gregg Jaeger,2006-11-15 This book gives an overview for practitioners and students of quantum physics and information science It provides ready access to essential information on quantum information processing and communication such as definitions protocols and algorithms Quantum information science is rarely found in clear and concise form This book brings together this information from its various sources It allows researchers and students in a range of areas including physics photonics solid state electronics nuclear magnetic resonance and information technology in their applied and theoretical branches to have this vital material directly at hand *Quantum Information and Quantum Computing* Mikio Nakahara,Yoshitaka Sasaki,2012-09-17 The open research center project Interdisciplinary fundamental research toward realization of a quantum computer has been supported by the Ministry of Education Japan for five years This is a collection of the research outcomes by the members engaged in the project To make the presentation self contained it starts with an overview by Mikio Nakahara which serves as a concise introduction to quantum information and quantum computing Subsequent contributions include subjects from physics chemistry mathematics and information science reflecting upon the wide variety of scientists working under this project These contributions introduce NMR quantum computing and related techniques number theory and coding theory quantum error correction photosynthesis non classical correlations and entanglement neutral atom quantum computer among others Each of contributions will serve as a short introduction to these cutting edge research fields

Classical and Quantum Information Dan C. Marinescu,2011-01-07 A new discipline Quantum Information Science has emerged in the last two decades of the twentieth century at the intersection of Physics Mathematics and Computer Science

Quantum Information Processing is an application of Quantum Information Science which covers the transformation storage and transmission of quantum information it represents a revolutionary approach to information processing Classical and Quantum Information covers topics in quantum computing quantum information theory and quantum error correction three important areas of quantum information processing Quantum information theory and quantum error correction build on the scope concepts methodology and techniques developed in the context of their close relatives classical information theory and classical error correcting codes Presents recent results in quantum computing quantum information theory and quantum error correcting codes Covers both classical and quantum information theory and error correcting codes The last chapter of the book covers physical implementation of quantum information processing devices Covers the mathematical formalism and the concepts in Quantum Mechanics critical for understanding the properties and the transformations of quantum information   **Quantum Information with Continuous Variables of Atoms and Light** N. J. Cerf,Gerd Leuchs,E. S. Polzik,2007 Quantum information describes the new field which bridges quantum physics and information science The quantum world allows for completely new architectures and protocols While originally formulated in continuous quantum variables the field worked almost exclusively with discrete variables such as single photons and photon pairs The renaissance of continuous variables came with European research consortia such as ACQUIRE Advanced Coherent Quantum Information Research in the late 1990s and QUICOV Quantum Information with Continuous Variables from 2000OCo2003 The encouraging research results of QUICOV and the new conference series CVQIP Continuous Variable Quantum Information Processing triggered the idea for this book This book presents the state of the art of quantum information with continuous quantum variables The individual chapters discuss results achieved in QUICOV and presented at the first five CVQIP conferences from 2002OCo2006 Many world leading scientists working on continuous variables outside Europe also contribute to the book   *What is Quantum Information?* Olimpia Lombardi,Sebastian Fortin,Federico Holik,Cristian López,2017-04-24 Combining physics and philosophy this is a uniquely interdisciplinary examination of quantum information science Suitable as both a discussion of the conceptual and philosophical problems of this field and a comprehensive stand alone introduction this book will benefit both experienced and new researchers in quantum information and the philosophy of physics   **Quantum Information Processing and Quantum Error Correction** Ivan B. Djordjevic,2012-05-23 Quantum Information Processing and Quantum Error Correction is a self contained tutorial based introduction to quantum information quantum computation and quantum error correction Assuming no knowledge of quantum mechanics and written at an intuitive level suitable for the engineer the book gives all the essential principles needed to design and implement quantum electronic and photonic circuits Numerous examples from a wide area of application are given to show how the principles can be implemented in practice This book is ideal for the electronics photonics and computer engineer who requires an easy to understand foundation on the principles of quantum information processing and quantum error correction together with

insight into how to develop quantum electronic and photonic circuits Readers of this book will be ready for further study in this area and will be prepared to perform independent research The reader completed the book will be able design the information processing circuits stabilizer codes Calderbank Shor Steane CSS codes subsystem codes topological codes and entanglement assisted quantum error correction codes and propose corresponding physical implementation The reader completed the book will be proficient in quantum fault tolerant design as well Unique Features Unique in covering both quantum information processing and quantum error correction everything in one book that an engineer needs to understand and implement quantum level circuits Gives an intuitive understanding by not assuming knowledge of quantum mechanics thereby avoiding heavy mathematics In depth coverage of the design and implementation of quantum information processing and quantum error correction circuits Provides the right balance among the quantum mechanics quantum error correction quantum computing and quantum communication Dr Djordjevic is an Assistant Professor in the Department of Electrical and Computer Engineering of College of Engineering University of Arizona with a joint appointment in the College of Optical Sciences Prior to this appointment in August 2006 he was with University of Arizona Tucson USA as a Research Assistant Professor University of the West of England Bristol UK University of Bristol Bristol UK Tyco Telecommunications Eatontown USA and National Technical University of Athens Athens Greece His current research interests include optical networks error control coding constrained coding coded modulation turbo equalization OFDM applications and quantum error correction He presently directs the Optical Communications Systems Laboratory OCSL within the ECE Department at the University of Arizona Provides everything an engineer needs in one tutorial based introduction to understand and implement quantum level circuits Avoids the heavy use of mathematics by not assuming the previous knowledge of quantum mechanics Provides in depth coverage of the design and implementation of quantum information processing and quantum error correction circuits   *A Short Introduction to Quantum Information and Quantum Computation* Michel Le Bellac,2006-06-15 Quantum information and computation is a rapidly expanding and cross disciplinary subject This book first published in 2006 gives a self contained introduction to the field for physicists mathematicians and computer scientists who want to know more about this exciting subject After a step by step introduction to the quantum bit qubit and its main properties the author presents the necessary background in quantum mechanics The core of the subject quantum computation is illustrated by a detailed treatment of three quantum algorithms Deutsch Grover and Shor The final chapters are devoted to the physical implementation of quantum computers including the most recent aspects such as superconducting qubits and quantum dots and to a short account of quantum information Written at a level suitable for undergraduates in physical sciences no previous knowledge of quantum mechanics is assumed and only elementary notions of physics are required The book includes many short exercises with solutions available to instructors through solutions cambridge org   **Quantum Information and Computation for Chemistry, Volume 154** Sabre Kais,2014-03-24 Examines the intersection of quantum information and

chemical physics The Advances in Chemical Physics series is dedicated to reviewing new and emerging topics as well as the latest developments in traditional areas of study in the field of chemical physics Each volume features detailed comprehensive analyses coupled with individual points of view that integrate the many disciplines of science that are needed for a full understanding of chemical physics This volume of the series explores the latest research findings applications and new research paths from the quantum information science community It examines topics in quantum computation and quantum information that are related to or intersect with key topics in chemical physics The reviews address both what chemistry can contribute to quantum information and what quantum information can contribute to the study of chemical systems surveying both theoretical and experimental quantum information research within the field of chemical physics With contributions from an international team of leading experts Volume 154 offers seventeen detailed reviews including Introduction to quantum information and computation for chemistry Quantum computing approach to non relativistic and relativistic molecular energy calculations Quantum algorithms for continuous problems and their applications Photonic toolbox for quantum simulation Vibrational energy and information transfer through molecular chains Tensor networks for entanglement evolution Reviews published in Advances in Chemical Physics are typically longer than those published in journals providing the space needed for readers to fully grasp the topic the fundamentals as well as the latest discoveries applications and emerging avenues of research Extensive cross referencing enables readers to explore the primary research studies underlying each topic   **Quantum Computation and Quantum Information** Michael A. Nielsen,Isaac L. Chuang,2010-12-09 One of the most cited books in physics of all time Quantum Computation and Quantum Information remains the best textbook in this exciting field of science This 10th anniversary edition includes an introduction from the authors setting the work in context This comprehensive textbook describes such remarkable effects as fast quantum algorithms quantum teleportation quantum cryptography and quantum error correction Quantum mechanics and computer science are introduced before moving on to describe what a quantum computer is how it can be used to solve problems faster than classical computers and its real world implementation It concludes with an in depth treatment of quantum information Containing a wealth of figures and exercises this well known textbook is ideal for courses on the subject and will interest beginning graduate students and researchers in physics computer science mathematics and electrical engineering

Quantum Information Science Klaus Petritsch,2018-12 The prospect to perform certain computational tasks such as search optimization and simulations much faster than what conventional computers can ever achieve has fueled the development of Quantum Information Science and related fields for about three decades Quantum entanglement which makes it possible that more than one particle can be described by the same wavefunction as well as the superposition of states are unique phenomena in quantum mechanics They enable exciting new ways to process transmit and obtain information See the chart below for the main branches that make up the exciting new field of Quantum Information Science

which while still in its infancy has the potential to change the world as we know it in the next decades Due to rapid progress during the past years the book includes selected research published mostly between 2016 and 2018 It starts with an introduction chapter that includes a short update of this new bur rapidly evolving field and two related unique phenomena like the observation of nonlocal position changes of a photon and the concept of spatio temporal steering The latter is a new way to assess nonclassical correlations in an open quantum network This is followed by a large section on quantum computing which begins with reviews of the progress of trapped ion processors focusing on laser based quantum gates and twisted photons that enable more than two states so called qudits Silicon based architectures components and semiconductor inspired design principles for quantum computers are described in the following papers before several types of quantum algorithms are reviewed including quantum genetic algorithms and a complete 3 qubit Grover search algorithm The end of the computing chapter is marked by a series of papers on quantum machine learning a field with the potential to accelerate the development of artificial intelligence considerably Machine learning related themes here include the dramatically improved performance through reinforcement learning and quantum entanglement in neuronal network states that focuses on the restricted Boltzmann machine architecture The section on quantum cryptography and sensing starts with an investigation of the fundamental limits for repeaterless quantum communication which provides precise and general benchmarks for quantum repeaters The ability to quantum process already encrypted data is then investigated which opens new avenues for secure cloud computing A secure communication alternative to quantum key distribution quantum secure direct communication was experimentally realized in the next paper The book finishes with three papers on quantum sensing i e quantum metrology These studies show how rendering the dynamics of quantum sensors chaotic can enhance the sensitivity without relying on the preparation or stabilization of highly entangled states Furthermore it is found that the Heisenberg limit can be approached by using quantum error correction and that the synchronization of distant optical docks at the femtosecond level is possible Book jacket   Advancing Chemistry and Quantum Information Science National Academies of Sciences Engineering and Medicine,Division on Earth and Life Studies,Board on Life Sciences,Board on Chemical Sciences and Technology,Committee on Identifying Opportunities at the Interface of Chemistry and Quantum Information Science,2023-11-30 The field of quantum information science QIS has witnessed a dramatic rise in scientific research activities in the 21st century as excitement has grown about its potential to revolutionize communications and computing strengthen encryption and enhance quantum sensing among other applications While historically QIS research has been dominated by the field of physics and computer engineering this report explores how chemistry in particular the use of molecular qubits could advance QIS In turn researchers are also examining how QIS could be used to solve problems in chemistry for example to facilitate new drug and material designs health and environmental monitoring tools and more sustainable energy production Recognizing that QIS could be a disruptive technology with the potential to create

groundbreaking products and new industries Advancing Chemistry and Quantum Information Science calls for U S leadership to build a robust enterprise to facilitate and support research at the intersection of chemistry and QIS This report identifies three key research areas design and synthesis of molecular qubit systems measurement and control of molecular quantum systems and experimental and computational approaches for scaling qubit design and function Advancing Chemistry and Quantum Information Science recommends that the Department of Energy National Science Foundation and other funding agencies should support multidisciplinary and collaborative research in QIS the development of new instrumentation and facilities centralized and open access databases and efforts to create a more diverse and inclusive chemical workforce **Quantum Information Processing with Diamond** Steven Prawer,Igor Aharonovich,2014-05-12 Diamond nitrogen vacancy NV color centers can transform quantum information science into practical quantum information technology including fast safe computing Quantum Information Processing with Diamond looks at the principles of quantum information science diamond materials and their applications Part one provides an introduction to quantum information processing using diamond as well as its principles and fabrication techniques Part two outlines experimental demonstrations of quantum information processing using diamond and the emerging applications of diamond for quantum information science It contains chapters on quantum key distribution quantum microscopy the hybridization of quantum systems and building quantum optical devices Part three outlines promising directions and future trends in diamond technologies for quantum information processing and sensing Quantum Information Processing with Diamond is a key reference for R D managers in industrial sectors such as conventional electronics communication engineering computer science biotechnology quantum optics quantum mechanics quantum computing quantum cryptology and nanotechnology as well as academics in physics chemistry biology and engineering Brings together the topics of diamond and quantum information processing Looks at applications such as quantum computing neural circuits and in vivo monitoring of processes at the molecular scale

Encyclopedia of Information Science and Technology, Fourth Edition Khosrow-Pour, D.B.A., Mehdi,2017-06-20 In recent years our world has experienced a profound shift and progression in available computing and knowledge sharing innovations These emerging advancements have developed at a rapid pace disseminating into and affecting numerous aspects of contemporary society This has created a pivotal need for an innovative compendium encompassing the latest trends concepts and issues surrounding this relevant discipline area During the past 15 years the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline The Encyclopedia of Information Science and Technology Fourth Edition is a 10 volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives applications and techniques contributed by thousands of experts and researchers from around the globe This authoritative encyclopedia is an all encompassing well established reference source that is ideally designed to disseminate the most forward thinking and diverse research findings

With critical perspectives on the impact of information science management and new technologies in modern settings including but not limited to computer science education healthcare government engineering business and natural and physical sciences it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library

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