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# Principles of Quantum Computation and Information

Volume I: Basic Concepts

World Scientific

# Principles Of Quantum Computation And Information

## Basic Concepts

**Nikhil Ranjan Roy, Kuntal Mukherjee**



## **Principles Of Quantum Computation And Information Basic Concepts:**

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Principles of Quantum Computation and Information, V.1: Basic Concepts ,2004

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**Quantum Information Processing, Quantum Computing, and Quantum Error Correction** Ivan B. Djordjevic, 2021-02-20 The Second Edition of Quantum Information Processing Quantum Computing and Quantum Error Correction An Engineering Approach presents a self contained introduction to all aspects of the area teaching the essentials such as state vectors operators density operators measurements and dynamics of a quantum system In addition to the fundamental principles of quantum computation basic quantum gates basic quantum algorithms and quantum information processing this edition has been brought fully up to date outlining the latest research trends These include Key topics include Quantum error correction codes QECCs including stabilizer codes Calderbank Shor Steane CSS codes quantum low density parity check LDPC codes entanglement assisted QECCs topological codes and surface codes Quantum information theory and quantum key distribution QKD Fault tolerant information processing and fault tolerant quantum error correction together with a chapter on quantum machine learning Both quantum circuits and measurement based quantum computational models are described The next part of the book is spent investigating physical realizations of quantum computers encoders and decoders including photonic quantum realization cavity quantum electrodynamics and ion traps In depth analysis of the design and realization of a quantum information processing and quantum error correction circuits This fully up to date new edition will be of use to engineers computer scientists optical engineers physicists and mathematicians A self contained introduction to quantum information processing and quantum error correction Integrates quantum information processing quantum computing and quantum error correction Describes the latest trends in the quantum information processing

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*Quantum Computing Models for Cybersecurity and Wireless Communications* Budati Anil Kumar,Singamaneni Kranthi Kumar,Li Xingwang,2025-02-07 The book explores the latest quantum computing research focusing on problems and challenges in the areas of data transmission technology computer algorithms artificial intelligence based devices computer technology and their solutions Future quantum machines will exponentially boost computing power creating new opportunities for improving cybersecurity Both classical and quantum based cyberattacks can be proactively identified and stopped by quantum based cybersecurity before they harm Complex math based problems that support several encryption standards could be quickly solved by using quantum machine learning This comprehensive book examines how quantum machine learning and quantum computing are reshaping cybersecurity addressing emerging challenges It includes in depth illustrations of real world scenarios and actionable strategies for integrating quantum based solutions into existing cybersecurity frameworks A range of topics are examined including quantum secure encryption techniques quantum key distribution and the impact of quantum computing algorithms Additionally it talks about machine learning models and how to



use machine learning to solve problems Through its in depth analysis and innovative ideas each chapter provides a compilation of research on cutting edge quantum computer techniques like blockchain quantum machine learning and cybersecurity Audience This book serves as a ready reference for researchers and professionals working in the area of quantum computing models in communications machine learning techniques IoT enabled technologies and various application industries such as finance healthcare transportation and utilities      *Quantum Information & Computation* ,2005

Introduction to Isotopic Materials Science Vladimir G. Plekhanov,2018-12-05 This book describes new trends in the nanoscience of isotopic materials science Assuming a background in graduate condensed matter physics and covering the fundamental aspects of isotopic materials science from the very beginning it equips readers to engage in high level professional research in this area The book s main objective is to provide insight into the question of why solids are the way they are either because of how their atoms are bonded with one another because of defects in their structure or because of how they are produced or processed Accordingly it explores the science of how atoms interact connects the results to real materials properties and demonstrates the engineering concepts that can be used to produce or improve semiconductors by design In addition it shows how the concepts discussed are applied in the laboratory The book addresses the needs of researchers graduate students and senior undergraduate students alike Although primarily written for materials science audience it will be equally useful to those teaching in electrical engineering materials science or even chemical engineering or physics curricula In order to maintain the focus on materials concepts however the book does not burden the reader with details of many of the derivations and equations nor does it delve into the details of electrical engineering topics

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