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in this text we present a technical overview of the emerging field of quantum computation along with new research results by the authors what distinguishes our presentation from that of others is our focus on the relationship between quantum computation and computer science specifically our emphasis is on the computational model of quantum computing rather than on the engineering issues associated with its physical implementation we adopt this approach for the same reason that a book on computer programming doesn't cover the theory and physical realization of semiconductors another distinguishing feature of this text

is our detailed discussion of the circuit complexity of quantum algorithms to the extent possible we have presented the material in a form that is accessible to the computer scientist but in many cases we retain the conventional physics notation so that the reader will also be able to consult the relevant quantum computing literature although we expect the reader to have a solid understanding of linear algebra we do not assume a background in physics this text is based on lectures given as short courses and invited presentations around the world and it has been used as the primary text for a graduate course at George Mason University in all these cases our challenge has been the same how to present to a general audience a concise introduction to the algorithmic structure and applications of quantum computing on an extremely short period of time the feedback from these courses and presentations has greatly aided in making our exposition of challenging concepts more accessible to a general audience table of contents introduction the algorithmic structure of quantum computing advantages and limitations of quantum computing amplitude amplification case study computational geometry the quantum fourier transform case study the hidden subgroup circuit complexity analysis of quantum algorithms conclusions bibliography

this book constitutes revised selected papers from the thoroughly refereed conference proceedings of the 14th international conference on innovative security solutions for information technology and communications secitc 2021 which was held virtually in november 2021 the 22 full papers included in this book were carefully reviewed and selected from 40 submissions they deal with emergent topics in security and privacy from different communities

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'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

the three volume set lncs 12105 12106 and 12107 constitute the thoroughly refereed proceedings of the 39th annual international conference on the theory and

applications of cryptographic techniques eurocrypt 2020 which was due to be held in zagreb croatia in may 2020 the conference was held virtually due to the covid 19 pandemic the 81 full papers presented were carefully reviewed and selected from 375 submissions the papers are organized into the following topical sections invited talk best paper awards obfuscation and functional encryption symmetric cryptanalysis randomness extraction symmetric cryptography i secret sharing fault attack security succinct proofs generic models secure computation i quantum i foundations isogeny based cryptography lattice based cryptography symmetric cryptography ii secure computation ii asymmetric cryptanalysis verifiable delay functions signatures attribute based encryption side channel security non interactive zero knowledge public key encryption zero knowledge quantum ii

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