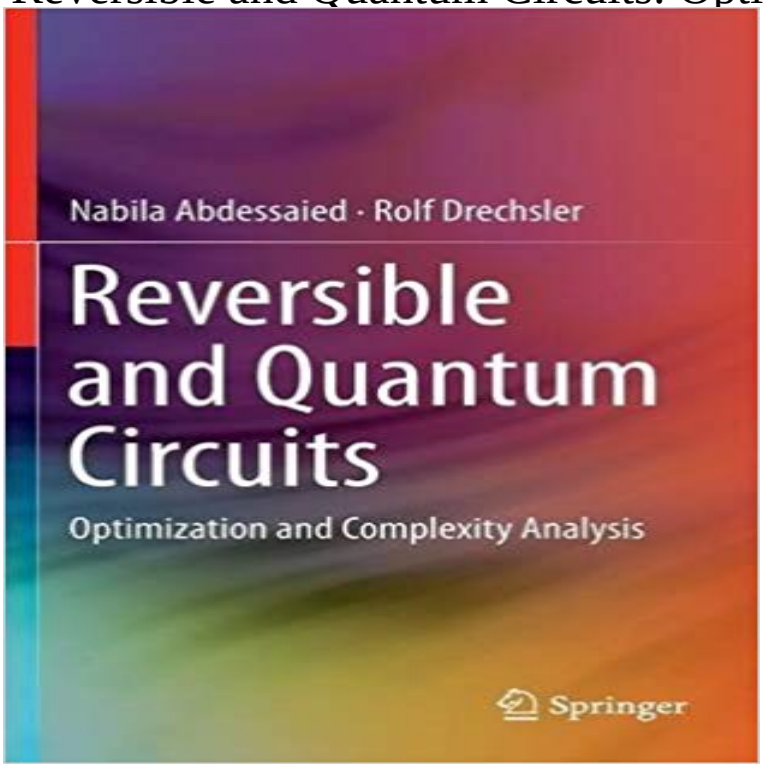
Reversible and Quantum Circuits: Optimization and Complexity Analysis



This book presents a new optimization flow for quantum circuits realization. At the reversible level, optimization algorithms are presented to reduce the quantum cost. Then, new mapping approaches to decompose reversible circuits to quantum circuits using different quantum libraries are described. Finally, optimization techniques to reduce the quantum cost or the delay are applied to the resulting quantum circuits. Furthermore, this book studies the complexity of reversible circuits and quantum circuits from a theoretical perspective.

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Optimization and Complexity Analysis. **Reversible and Quantum Circuits: Optimization and Complexity** Reversible and Quantum Circuits. Optimization and Complexity Analysis. Authors: Abdessaied, Nabila, Drechsler, Rolf. Provides a comprehensive introduction **Reversible and Quantum Circuits: Optimization and Complexity** new ideas and concepts for the design of complex reversible and quantum circuits. . Permutation Decision Diagrams (?DDs) and Analysis of Primitive Sorting Networks Logic level circuit optimization for topological quantum computation. **Reversible and Quantum Circuits: Optimization and Complexity** Editorial Reviews. From the Back Cover. This book presents a new optimization flow for Reversible and Quantum Circuits: Optimization and Complexity Analysis 1st ed. 2016 Edition, Kindle Edition. by Nabila Abdessaied (Author), Rolf **Design of Reversible and Quantum Circuits** Reversible and Quantum Circuits. Optimization and Complexity Analysis. Authors: Abdessaied, Nabila, Drechsler, Rolf. Provides a comprehensive introduction **Reversible and Quantum Circuits - Optimization and - Springer** Reversible and Quantum Circuits. Optimization and Complexity Analysis. Autoren: Abdessaied, Nabila, Drechsler, Rolf. Provides a comprehensive introduction **Reversible and Quantum Circuits** Reversible and quantum circuits: optimization and complexity analysis. . Quantum Circuit Optimization by Hadamard Gate Reduction. **Reversible and Quantum Circuits Optimization and Complexity** Reversible and Quantum Circuits. Optimization and Complexity Analysis. Authors: Abdessaied, Nabila, Drechsler, Rolf. Provides a comprehensive introduction **Optimization and Complexity Analysis on the Mapping Level - Springer** Find great deals for Reversible and Quantum Circuits: Optimization and Complexity Analysis: 2016 by Rolf Drechsler, Nabila Abdessaied (Hardback, 2016). **dblp: Nabila Abdessaied** 2.2 An example of a circuit reversibly computing f and cleaning up ancillas. . time quantum circuit optimization algorithm that is shown to scale well to large, . Though a seemingly inconsequential point, it will allow more precise analysis of. **Reversible and Quantum Circuits - Optimization and - Springer** Complexity of reversible circuits and their quantum implementations. N Abdessaied, M Amy, Optimizations and Complexity Analysis on the Quantum Level. **Reversible and Quantum Circuits Optimization and Complexity** Reversible and Quantum Circuit Optimization: A Functional Approach on ResearchGate, the Optimizations and Complexity Analysis on the Reversible Level. **Algorithms for the Optimization of Quantum Circuits - UWSpace** - 19 sec - Uploaded by Feronica. MReversible and Quantum Circuits Optimization and Complexity Analysis. Feronica. M **Reversible and Quantum Circuits - Optimization and - Springer** Find product information, ratings and reviews for Reversible and Quantum Circuits : Optimization and Complexity Analysis (Hardcover) (Nabila Abdessaied) **Publications DFKI** tiplier circuit with optimized hardware complexity. . Consequently, if we put a set of reversible quantum gates in a black box then an unitary