



Quantum Error Correction and Fault Tolerant Quantum Computing

Frank Gaitan

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It was once widely believed that quantum computation would never become a reality. However, the discovery of quantum error correction and the proof of the accuracy threshold theorem nearly ten years ago gave rise to extensive development and research aimed at creating a working, scalable quantum computer. Over a decade has passed since this monumental accomplishment yet no book-length pedagogical presentation of this important theory exists.

Quantum Error Correction and Fault Tolerant Quantum Computing offers the first full-length exposition on the realization of a theory once thought impossible. It provides in-depth coverage on the most important class of codes discovered to date—quantum stabilizer codes. It brings together the central themes of quantum error correction and fault-tolerant procedures to prove the accuracy threshold theorem for a particular noise error model. The author also includes a derivation of well-known bounds on the parameters of quantum error correcting code.

Packed with over 40 real-world problems, 35 field exercises, and 17 worked-out examples, this book is the essential resource for any researcher interested in entering the quantum field as well as for those who want to understand how the unexpected realization of quantum computing is possible.

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This Quantum Error Correction and Fault Tolerant Quantum Computing book is not ordinary book, you have after that it the world is in your hands. The benefit you get by reading this book is definitely information inside this publication incredible fresh, you will get information which is getting deeper anyone read a lot of information you will get. This Quantum Error Correction and Fault Tolerant Quantum Computing without we recognize teach the one who looking at it become critical in thinking and analyzing. Don't become worry Quantum Error Correction and Fault Tolerant Quantum Computing can bring whenever you are and not make your case space or bookshelves' become full because you can have it in the lovely laptop even cellphone. This Quantum Error Correction and Fault Tolerant Quantum Computing having very good arrangement in word in addition to layout, so you will not truly feel uninterested in reading.

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