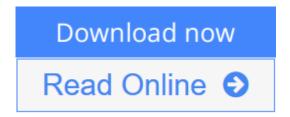


Quantum Computation and Quantum Information: 10th Anniversary Edition

By Michael A. Nielsen, Isaac L. Chuang



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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.



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Review

"In conclusion, "Mike and Ike" is still the authoritative reference point for anybody studying or researching in the field of quantum computing."

Alessandro Berni, Computing Reviews

About the Author

Michael Nielsen was educated at the University of Queensland, and as a Fulbright Scholar at the University of New Mexico. He worked as the Richard Chace Tolman Fellow at Caltech at Los Alamos National Laboratory, was Foundation Professor of Quantum Information Science and a Federation Fellow at the University of Queensland, and a Senior Faculty Member at the Perimeter Institute for Theoretical Physics.

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