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Quantum Computing: A Gentle Introduction is a textbook on quantum computing. It was written by Eleanor Rieffel and Wolfgang Polak, and published in 2011 by the MIT Press.

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computing model. Quantum information processing is the result of using the physical reality that quantum theory tells us about for the purposes of performing tasks that were previously thought impossible or infeasible. Devices that perform quantum information processing are known as quantum computers. In this book we examine

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For an introduction onto the maths and principals of quantum computing, as well as potential applications, this is an amazing text. What it lacks is the technological and engineering applications such as the physical realisation of qubits; much of it occurs in hypothetical situations rather than through real world applications.

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