



Simulation of a Quantum Computer: Shor's factorization algorithm

A. V. Brailas

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This book describes a software simulation of a quantum computer, which are at present a theoretical possibility. If such devices can be built, they offer massive parallelism by exploiting the very fact that quantum systems can be in several states at once. The possibility of quantum computation has much aroused interest since Shor gave an efficient quantum algorithm for factoring large numbers. No efficient classical algorithm for this problem is known, and as a result many cryptosystems are based on its difficulty. In this book an implementation of Shor's algorithm in visual Basic is presented followed by a simulation of a quantum NOT gate also in the same programming language. Successful operation of the factorization algorithm is presented as well as correct operation of the NOT gate. From the sieve of Eratosthenes, the famous Greek mathematician who introduce a systematic algorithm for finding prime numbers in a given range, to Shor's algorithm and quantum computation, backward in 1999 and at the present time. This is a wonderful journey.

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