# Quantum Computing from the Ground Up

*Riley Tipton Perry*

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Quantum computing — the application of quantum mechanics to information — represents a fundamental break from classical information and promises to dramatically increase a computer's power. Many difficult problems, such as the factorization of large numbers, have so far resisted attack by classical computers yet are easily solved with quantum computers. If they become feasible, quantum computers will end standard practices such as RSA encryption.

Most of the books or papers on quantum computing require (or assume) prior knowledge of certain areas such as linear algebra or quantum mechanics. The majority of the currently-available literature is hard to understand for the average computer enthusiast or interested layman. This text attempts to teach quantum computing from the ground up in an easily readable way, providing a comprehensive tutorial that includes all the necessary mathematics, computer science and physics.

**Errata(s)**
Errata

**Contents:**

- Introduction
- Computer Science
- Mathematics for Quantum Computing
- Quantum Mechanics
- Quantum Computing
- Information Theory
- Quantum Algorithms
- Using Quantum Mechanical Devices and Recent Developments

**Readership:** Advanced undergraduate students interested in quantum information.

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