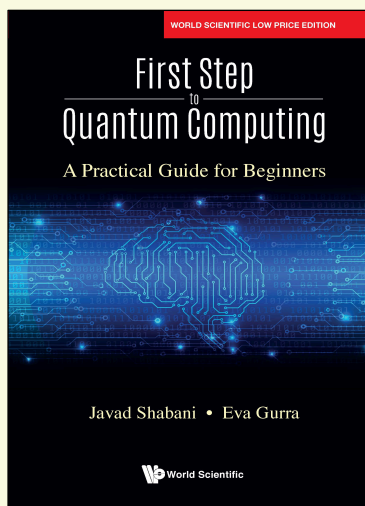


First Step to Quantum Computing

A Practical Guide for Beginners



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ABOUT THE BOOK

Quantum information is a young and evolving field. This compendium introduces quantum information in a comprehensive self-contained guide without assuming a wealth of knowledge prior to reading.

The volume highlights intuition on counterintuitive topics such as quantum mechanics, basic mathematical tools and calculations involving linear algebra, and applies these concepts to quantum information with guided problems and coding exercises.

This applied guide largely benefits mid-level undergraduates and perhaps motivated high schoolers.

READERSHIP

Researchers, professionals, academics, undergraduate and graduate students in supercomputing.

CONTENTS

- Introduction
- Preliminary Math Tools
- Basics of Linear Algebra
- Introduction to Quantum Mechanics
- Single Qubit Representation and Measurement
- Applications with Single Qubits
- Two Qubits and Entanglement
- Experimental Implementation