

## Chapter 4: Quantum Gates and Circuits

This section is already in the book plan, but it has not been written fully yet. The book owner can press Generate section to write this part with the language model connected to TheoryTrace.

Section plan:

Teaches unitary evolution through one-qubit and multi-qubit gates, including Pauli gates, Hadamard, phase gates, controlled operations, and Toffoli-like reversible logic. The chapter shows how quantum circuits transform amplitudes and how to read circuit diagrams.

### References

References will be added when this section is generated.

# Document information

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<b>Project</b>	Shor's Algorithm from First Principles
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