

## Chapter 17: Quantum Simulation

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:

Introduces one of the most natural applications of quantum computers: simulating quantum systems. Students learn Hamiltonians, time evolution, Trotterization, and why chemistry and materials science are major targets for quantum computing.

### References

References will be added when this section is generated.

# Document information

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<b>Project</b>	Quantum Computing from First Principles
<b>Document</b>	Document 1.21
<b>Author</b>	mujirin
<b>Verifier</b>	Not verified
<b>Downloaded</b>	July 05, 2026 19:22 KST
<b>Status</b>	Working
<b>Document link</b>	<a href="https://www.theorytrace.com/projects/quantum-computing-from-first-principles/documents/chapter-17-quantum-simulation/">https://www.theorytrace.com/projects/quantum-computing-from-first-principles/documents/chapter-17-quantum-simulation/</a>