

SUGGESTED BIBLIOGRAPHY

By Spyros Tserkis
November 30, 2025

QUANTUM MECHANICS (PHYSICS)

- Green - “Matrix Mechanics”
- Ballentine - “Quantum Mechanics: A Modern Development”
- Peres - “Quantum Theory: Concepts and Methods”

QUANTUM MECHANICS (MATHEMATICS)

- Heinosaari, Ziman - “The Mathematical Language of Quantum Theory”
- Prugovecki - “Quantum Mechanics in Hilbert Space”
- Holevo - “Probabilistic and Statistical Aspects of Quantum Theory”

HISTORY & INTERPRETATION OF QUANTUM MECHANICS

- Jammer - “The Philosophy of Quantum Mechanics”
- Plotnitsky - “Reading Bohr: Physics and Philosophy”

QUANTUM OPTICS

- Walls, Milburn - “Quantum Optics”

QUANTUM COMPUTING & COMMUNICATION

- Ekert, Hosgood, Kay, Macchiavello - “Introduction to Quantum Information Science”
- Watrous - “Understanding Quantum Information and Computation”
- Riccardo, Motta - “Quantum Information Science”

CLASSICAL & QUANTUM INFORMATION THEORY

- Cover, Thomas - “Elements of Information Theory”
- Holevo - “Quantum Systems, Channels, Information”

LINEAR ALGEBRA

- Axler - “Linear Algebra Done Right”
- Halmos - “Finite-Dimensional Vector Spaces”

MATRIX ANALYSIS

- Gantmacher - “The Theory of Matrices” (Volumes I and II)
- Horn, Johnson - “Matrix Analysis”

REAL & FUNCTIONAL ANALYSIS

- Axler - “Measure, Integration & Real Analysis”
- Halmos - “Introduction to Hilbert Space and the Theory of Spectral Multiplicity”

PROBABILITY THEORY & STATISTICS

- Bertsekas, Tsitsiklis - “Introduction to Probability”
- Rényi - “Probability Theory”
- Rényi - “Foundations of Probability”