



Notes in Quantum Mechanics and Quantum Computing Second Edition

Odel A. Cross

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The goal throughout this book is to present a series of topics in quantum mechanics and quantum computing. Topics include angular momentum, the hydrogen atom, quantum entanglement, Deutsch's algorithm, Grover's algorithm, Shor's algorithm, and quantum teleportation. There are nine chapters. Chapter one is a review of complex numbers, vectors, and matrices. Chapter two is a review of vector rotations and reflections. Chapter three introduces the postulates of quantum mechanics, state vectors and the density operator. Chapters four and five introduce angular momentum. Chapter six discusses the hydrogen atom. Chapters seven and eight introduce the fundamental unit of quantum information, the qubit, and present a series of quantum computing topics. Chapter nine discusses polarization states and optical elements, including polarizers and beam splitters. Five appendices are provided, which include a quick review of Fourier transforms and Boolean algebra. Extensive use is made of examples and diagrams. The answers to all of the end-of-chapter problems are available in the solutions manual.

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