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The first half is about simple math. Understanding that $QP - PQ = i\hbar/2\pi$ is the matrix form of an equation and the $QP - PQ$ is not zero because the matrices do not commute is critical. This is basic stuff that a lot of books just skip. The second half uses the math to explain some of the features of Quantum Mechanics.

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$\hbar\omega = \frac{1}{2} p^2 + \frac{1}{2} x^2$, where $p_0 = \hbar m \omega$ and $x_0 = \sqrt{\frac{\hbar}{m\omega}}$, are the basic momentum and length scales. From now on, we will give the energy in units of $\hbar\omega$, x in units of x_0 , and p in units of p_0 , so the reduced Hamiltonian is $H_0 = \frac{1}{2} p^2 + \frac{1}{2} x^2$. In these units the commutation relation is $[x, p] = i$.

~~Quantum Mechanics using Matrix Methods~~

Matrix mechanics is a formulation of quantum mechanics created by Werner Heisenberg, Max Born, and Pascual Jordan in 1925. It was the first conceptually autonomous and logically consistent formulation of quantum mechanics. Its account of quantum jumps supplanted the Bohr model's electron orbits.

~~Matrix mechanics—Wikipedia~~

This book is about the matrix formulation of quantum mechanics that Heisenberg developed. The first half of the book is all about understanding one of most important equations of quantum mechanics: $QP - PQ = i\hbar/2$; to do so the author introduces complex numbers, matrices, vectors and probability.

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~~Quantum Mechanics in Simple Matrix Form: Jordan, Thomas F ...~~

In physics, the S-matrix or scattering matrix relates the initial state and the final state of a

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physical system undergoing a scattering process. It is used in quantum mechanics, scattering theory and quantum field theory (QFT). More formally, in the context of QFT, the S-matrix is defined as the unitary matrix connecting sets of asymptotically free particle states (the in-states and the out-states) in the Hilbert space of physical states. A multi-particle state is said to be free (non-interacti

~~S-matrix—Wikipedia~~

The first half is about simple math. Understanding that $QP - PQ = i\hbar/2\pi$ is the matrix form of an equation and the $QP - PQ$ is not zero because the matrices do not commute is critical. This is basic stuff that a lot of books just skip. The second half uses the math to explain some of the features of Quantum Mechanics.

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The quantum harmonic oscillator is the quantum-mechanical analog of the classical harmonic oscillator. Because an arbitrary smooth potential can usually be approximated as a harmonic potential at the vicinity of a stable equilibrium point, it is one of the most important model systems in quantum mechanics. Furthermore, it is one of the few quantum-mechanical systems for which an exact ...

~~Quantum harmonic oscillator—Wikipedia~~

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