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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

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just skip. The second half uses the math to explain some of the features of Quantum Mechanics.

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text makes basic  
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accessible with a  
minimum of  
mathematics. The  
focus is on the  
matrices  
representing  
physical quantities.  
States are  
described simply by

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mechanics of  
physical quantities  
or by probabilities  
for possible values.

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$\tilde{N} w = \begin{pmatrix} 1 & 2 \\ 1 & 2 \end{pmatrix} \begin{pmatrix} p_0 \\ x_0 \end{pmatrix} + \begin{pmatrix} 2 \\ 2 \end{pmatrix}$  where  
 $p_0 = \tilde{N} m w$  and  $x_0 = \tilde{N} ' H m w L$ , are the  
basic momentum

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## Quantum

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  $H_0 = \frac{p^2}{2} + \frac{x^2}{2}$ . In these units the commutation relation is  $[x, p] = i$ .

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using Matrix  
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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



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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

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mechanics that Heisenberg developed. The first half of the book is all about

understanding one of most important equations of quantum mechanics:  $QP-PQ=ih/2$  ; to do so the author introduces complex numbers, matrices, vectors and probability.

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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

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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

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~~Wikipedia~~

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about simple math.

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## Quantum

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



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is the quantum-  
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of the classical  
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oscillator. Because  
an arbitrary smooth

potential can

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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

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