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Engineers
nothing more than a

friendly chat with Dave
Miller about the nature
of the universe. This

year, as an undergrad
EE major at Stanford, I
took the quantum

mechanics course from
which this book

emerged, using the book
as a primary textbook

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mechanics for

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Quantum mechanics was once

mostly of interest to

physicists, chemists and

other basic scientists.

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in many areas of

engineering and science

such as materials

science,

nanotechnology,

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electronic devices, and
photonics.

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of solid state physics

enables us to make

transistors and

integrated circuits

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quantum mechanics,
and covers the major
ways in which quantum
mechanics is written and
used in modern
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was once mostly of
interest to physicists,
chemists and other basic

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scientists. Now the

concepts and techniques
of quantum mechanics

are essential in many

areas of engineering and
science such as materials
science,

nanotechnology,

electronic devices, and

photonics. This course is
a substantial

introduction to

quantum mechanics and

how to use it.

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introductory course in

quantum mechanics at

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The Quantum mechanics

is a fundamental theory

in physics that describes

the physical properties

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of nature at small scales,
of the order of atoms
and subatomic particles.

It is the foundation of all
quantum physics
including quantum
chemistry, quantum
field theory, quantum
technology, and
quantum information
science.

Quantum mechanics -
Wikipedia

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mechanics. ... Scientists
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connected the lasers,
magnets, and other
hardware for
manipulating the atoms
to the internet, so you
can literally fiddle with
this ...

ColdQuanta's Albert Is
a Quantum Puppet on
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An especially unusual version of the observer effect occurs in quantum mechanics, as best demonstrated by the double-slit experiment. Physicists have found that even passive observation of quantum phenomena (by changing the test apparatus and passively "ruling out" all but one possibility) can actually

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change the measured
result.

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Observer effect (physics)
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Description. This course covers key topics in the use of quantum mechanics in many modern applications in science and technology, introduces core advanced concepts such as spin, identical

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particles, the quantum

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basics of quantum

information, and the

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quantum mechanics,

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ways in which quantum

mechanics is written and

used in modern

practice.

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As a matter of fact, with some knowledge of chemistry and materials scientists, physicists with a thorough familiarity of the important principles of quantum mechanics will be able to answer the questions above precisely and completely, asserts the author David Miller.

Miller, a professor of

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mechanics to scientists

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and approach are aimed

at anyone with a

reasonable scientific or

technical background

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the text with remarkable

clarity and authority. It

is highly recommended

as a textbook for courses

on quantum mechanics

in undergraduate

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engineering." Shun
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otechnology, quantum

mechanics is becoming

increasingly essential to

mechanical engineering

students. Yet, the typical

quantum mechanics

texts for physics students

are not written in a style

that mechanical

engineering students

would likely feel

comfortable with. Also,

the

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I ' m reminded of a lecture in which computer scientist Scott Aaronson calls quantum mechanics just a “ generalization of probability theory. ” Many physicists fail to appreciate this fact, Aaronson...

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This book covers the
entire span of quantum
mechanics whose
developments have
taken place during the
early part of the

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mechanics for
twentieth century up till
the present day. We
start with the

Rutherford-Bohr model
of the atom followed by
Schrodinger's wave
mechanics with its
application to the
solution of calculating
the energy spectrum of a
particle in a box, the
harmonic oscillator and
finally the hydrogen
atom. Heisenberg's

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mechanics and

its duality with

Schrodinger's wave

mechanics, quantum

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interacts with an

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theory as developed by

Feynman, Schwinger,

Tomonaga and Dyson

for describing the

interaction between

electrons, positrons, and

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integral. We also

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computers forming a
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theory of induced
representations of a
group with applications
to Wigner's theory of
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gauge theories with
application to the
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quantum field theories
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recent theory of super-

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symmetry which is a

Boson-Fermion

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contained,

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of this complex branch

of science. The book

demystifies difficult

concepts and views the

subject through non-

physics fields such as

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explains key concepts

and phenomena in the

language of non-physics

majors and with simple

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the Schrodinger

equation, the

fundamental equation of

quantum physics, by

applying it to atoms

Shows how quantum

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and problems with solutions are presented throughout to make

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applications. The main

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quantum systems, using
dimensional analysis

and order-of-magnitude
estimates to develop

intuition

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Albert Einstein. A

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tricks that avoid long

calculations, makes

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simple, and bypasses the
worthless anguish of
famous scientists who

died in angst. The

author's approach is

light-hearted, and the

book is written to be

read without equations,

however all relevant

equations still appear

with explanations as to

what they mean. The

book entertainingly

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rejects quantum For

disinformation, the

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(obsolete), pompous non-

explanations, pompous

people, the hoax of the

'uncertainty principle' (it

is just a math relation),

and the accumulated

junk-DNA that got into

the quantum operating

system by misreporting

it. The order of

presentation is new and

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also unique by warning about traps to be avoided, while separating topics such as quantum probability to let the Schroedinger equation be appreciated in the simplest way on its own terms. This is also the first book on quantum theory that is not based on arbitrary and confusing axioms or foundation principles.

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The author is so

unprincipled he shows
where obsolete

principles duplicated

basic math facts,

became redundant, and

sometimes were just

pawns in academic turf

wars. The book has

many original topics not

found elsewhere, and

completely researched

references to original

historical sources and

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anecdotes concerting

the unrecognized

scientists who actually

did discover things, did

not all get Nobel prizes,

and yet had interesting

productive lives.

Nature appears to be

composed of two

completely different

kinds of things: rocklike

things and idealike

things. The first is

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epitomized by an

enduring rock, the

second by a fleeting

thought. A rock can be

experienced by many of

us together, while a

thought seems to belong

to one of us alone.

Thoughts and rocks are

intertwined in the

unfolding of nature, as

Michelangelo's David so

eloquently attests. Yet is

it possible to under

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stand rationally how two completely different kinds of things can interact with each other? Logic says no, and history confirms that verdict. To form a rational comprehension of the interplay between the matterlike and mind like parts of nature these two components ought to be understood as aspects of some single

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mechanics. But what is the nature of a primal stuff that can have mind and matter as two of its aspects? An answer to this age-old question has now been forced upon us. Physicists, probing ever deeper into the nature of matter, found that they were forced to bring into their theory the human observers and their thoughts.

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Moreover, the mathematical structure of the theory combines in a marvelous way the features of nature that go with the concepts of mind and matter.

Although it is possible, in the face of this linkage, to try to maintain the traditional logical nonrelatedness of these two aspects of nature,

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that endeavor leads to
great puzzles and
mysteries.

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