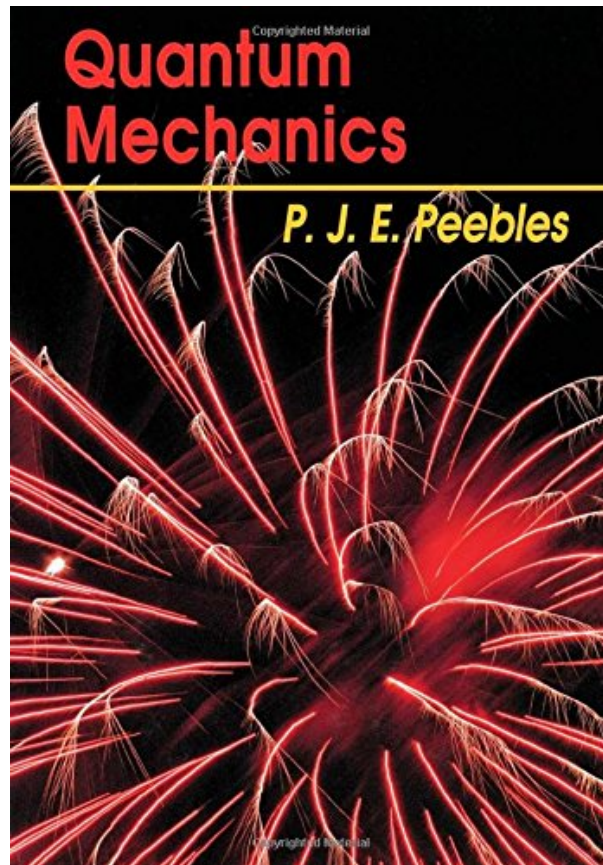
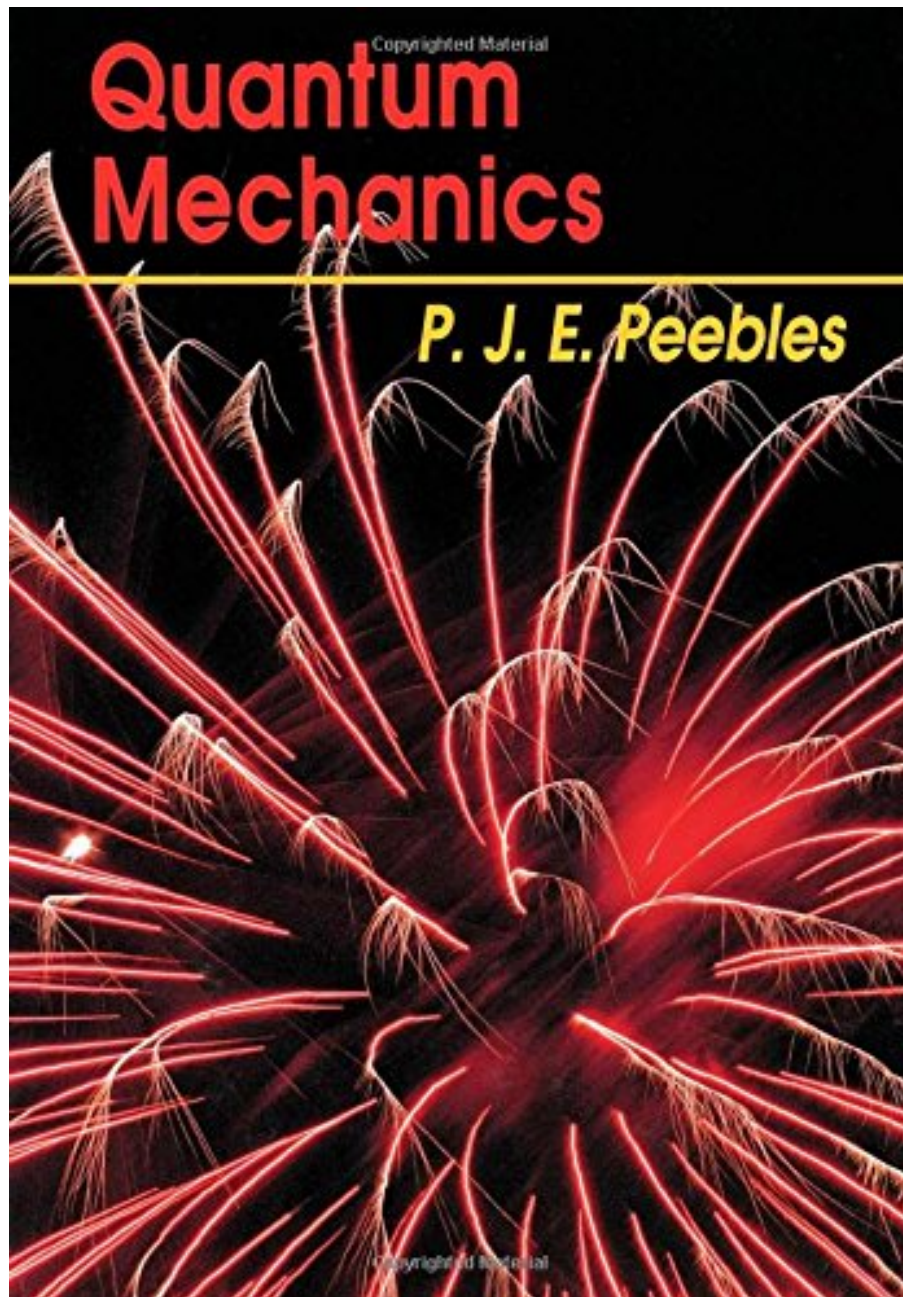


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## Review

"Peebles applies quantum theory, often in simple, approximate ways, to a variety of interesting problems . . . [It] could prove quite a rewarding book for the more able and motivated student."--New Scientist

## From the Back Cover

P.J.E. Peebles teaches the often counterintuitive physics of quantum mechanics by working through detailed applications of general ideas. A principal example used in the book is the hyperfine structure of atomic hydrogen (the 21 cm line): the computation of the energy splitting and the induced and spontaneous transition rates. Peebles makes room for such calculations by omitting unneeded elements that can be readily found in the standard treatises after one fully understands the principles of quantum mechanics. To give a flavor of the discovery of the remarkable world picture of quantum mechanics, the author presents a set of examples of physics that are well worth knowing even aside from their historical interest. Then the general principles of quantum mechanics are stated first in terms of wave mechanics and then in the standard abstract linear space formalism. Measurement theory, an essential part of quantum mechanics, is discussed in some detail. The book also emphasizes the art of numerical estimates. And, lastly, a large number of problems are presented, some easy, some challenging, but all selected because they are physically interesting. The book is designed for advanced undergraduates or beginning graduate students in physics.

## About the Author

Peebles is Professor of Physics at Princeton University.

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Truly advanced methods not prerequisite for assimilation; for instance, the slick derivation (page 141) of Hamiltonian in Polar Coordinates is easily absorbed, as is the Dirac Equation derivation ( page 406).

Algebraic methods utilized for Simple Harmonic Oscillator and Spin Angular Momentum.

Mathematical derivations are quite clean, somewhat exceptional. ( Bras, Kets, Operators, Eigenvalues, culminating in an axiomatic summary of Quantum Mechanics presented on page 188.

Amusingly, the term Hilbert Space is avoided, also, no Path Integrals.)

I quote from our esteemed author : " What does the State Vector really mean? (page 257)," The state of a physical system is

represented by a wave function, and each measurable attribute of the system is represented by a linear self-adjoint operator in

the space of functions." (Page 114), " One can not really imagine that a point spins." (Page 198).

A few outstanding features include:

(1) Interweaving the historical discussion with modern formalism (especially the first chapter),

(2) Excellent problem sets ( see chapter two, problems 22,23,24 carrying through Simple Harmonic Oscillators, Coherent States and Squeezed States, chapter six, problem 5 , on bound states of the Bottomonium Quark System) Do not ignore the Problem Sets.

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