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A Modern Approach to Quantum Mechanics by John S. Townsend

Using an innovative approach that students find both accessible and exciting, this text lays out the foundations of quantum mechanics through the physics of intrinsic spin. This edition has been revised throughout to include more worked examples and end-of-chapter problems, further enabling students to gain a complete mastery of the subject.

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Yakir Aharonov, Ph.D., is professor of theoretical physics at Chapman University, where he holds the James J. Farley Professorship in Natural Philosophy. Considered one of the most highly regarded scientists in the world, Dr. Aharonov received the prestigious Wolf Prize in 1998 for his co-discovery of the Aharonov-Bohm Effect, one of the cornerstones of modern physics. He is also recipient of ...

A new approach to quantum mechanics | Yakir Aharonov ...

A Modern Approach to Quantum Mechanics, John S. Townsend, University Science Books, 2000. Introduction to Quantum Mechanics, David J. Griffiths, Prentice-Hall, 1995. The book Linearity, Symmetry and Prediction in the Hydrogen Atom, Stephanie Singer, Springer, 2005. covers some of the material we will cover, especially the hydrogen atom spectrum ...

Introduction to Quantum Mechanics

In physics and the philosophy of physics, quantum Bayesianism (abbreviated QBism, pronounced "cubism") is an interpretation of quantum mechanics that takes an agent's actions and experiences as the central concerns of the theory. QBism deals with common questions in the interpretation of quantum theory about the nature of wavefunction superposition, quantum measurement, and entanglement.

Quantum Bayesianism - Wikipedia

Details Subject(s) Quantum theory — Textbooks Notes Includes index. Contents Stern-Gerlach experiments -- Rotation of basis states and matrix mechanics -- Angular momentum -- Time evolution -- A system of two spin-1/2 particles -- Wave mechanics in one dimension -- The one-dimensional harmonic oscillator -- Path integrals -- Translational and rotational symmetry in the two-body problem ...

A modern approach to quantum mechanics / John S. Townsend ...

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 particles, the quantum mechanics of light, the basics of quantum information, and the interpretation of quantum mechanics, and covers the major ways in which quantum mechanics is written and used in modern practice.

Quantum Mechanics for Scientists and Engineers 2 | edX

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Using an innovative approach that students find both accessible and exciting, A Modern Approach to Quantum Mechanics, Second Edition lays out the foundations of quantum mechanics through the physics of intrinsic spin. Written to serve as the primary textbook for an upper-division course in quantum mechanics, Townsend's text gives professors and students a refreshing alternative to the old style of teaching, by allowing the basic physics of spin systems to drive the introduction of concepts ...

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Department of Physics at Harvey Mudd College

Inspired by Richard Feynman and J.J. Sakurai, A Modern Approach to Quantum Mechanics lets professors expose their undergraduates to the excitement and insight of Feynman's approach to quantum mechanics while simultaneously giving them a textbook that is well-ordered, logical, and pedagogically sound.

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Quantum Mechanics A Paradigms Approach by David McIntyre ...

One of the advantages of this approach is that students can see right away how quantum mechanics can explain everyday phenomena such as the the law of reflection, Snell's Law, and a diffraction grating (in, say, the reflection of light from a CD) as straightforward extensions of the sum-over-paths approach from a few paths to many paths (leading naturally to Fermat's principle of least time).

A Modern Approach to Quantum Mechanics, John S. Townsend

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