

This is a rare and much-needed book: a concise but comprehensive account of quantum mechanics for popular science readers written by a respected physicist. Sam Treiman--internationally renowned for his work in particle physics--makes quantum mechanics accessible to nonspecialists. Combining mastery of the material with clear, elegant prose and infectious enthusiasm, he conveys the substance, methods, and profound oddities of the field. Treiman begins with an overview of quantum mechanics. He sketches the early development of the field by Einstein, Bohr, Heisenberg, Schrodinger, and others, and he makes clear how the quantum outlook flies in the face of common sense. As he explains, the quantum world is intrinsically probabilistic. For example, a particle is not in general in some particular place at a given instant, nor does it have a definite momentum. According to the Heisenberg uncertainty principle, there is a limit to how well both location and momentum can be specified simultaneously. In addition, particles can move through barriers and otherwise move in regions of space that are forbidden by classical mechanics. If a particle has a choice of different paths, it pursues all of them at once. Particles display wave-like characteristics and waves show particle-like characteristics. Treiman pays special attention to the more fundamental wave outlook and its expression in quantum field theory. He deals here with the remarkable fact that all the particles of a given species are strictly identical, and with the unnerving fact that particles can be created and destroyed. As Treiman introduces us to these and other wonders, he also touches--without resolution--on some of the deep philosophical problems of quantum mechanics, notably how probabilities become facts. Weaving together impeccable and up-to-date science, engaging writing, and a talent for clear explanation honed over Treiman's distinguished career as a physicist and teacher, *The Odd Quantum* is a remarkable survey of a field that changed the course of modern scientific and philosophical thought.

Pictures of Innocence: The History and Crisis of Ideal Childhood (Interplay), The Big Yin: Life and Times of Billy Connolly, Confessions of a Reluctant Ghost Hunter: A Cautionary Tale of Encounters with Malevolent Entities and Other Disembodied Spirits, The Mind Is Willing: Mind Mastery the Natural Way, Croisade - tome 4 - Becs de feu (Les) (French Edition), OUTPUT, INFLATION AND GROWTH: INTRODUCTION TO MACROECONOMICS, Lines (Stone Age Geometry), Eltern, die auf Schaukeln starren: Von Bio-Mamas, iPhone-Papas und anderen Spielplatz-Profis (German Edition), Kiss of Satan: A Glimpse into the World of Fortunetellers, Witches, and Demons,

Buy *The Odd Quantum* on thepepesplace.com ? FREE SHIPPING on qualified orders. The first five chapters are an excellent introduction to quantum mechanics from the viewpoint of a particle physicist. (A solid state physicist might include some. This is a rare and much-needed book: a concise but comprehensive account of quantum mechanics for popular science readers written by a respected physicist. *The Odd Quantum* is aiming to be odd. Falling between being a quantum mechanics textbook and a 'popular' science book, it aims to convey something of the. Home >; Physics Today >; Volume 53, Issue 4 >; / 01 April 2011 page *The Odd Quantum*. Sam Treiman · Robert H. March, Reviewer.

ing general relativity, relativistic quantum mechanics, particle physics, and basic . In the book *The Odd Quantum*, completed just before his untimely death last.

Read the full-text online edition of *The Odd Quantum* (). A great explanation of quantum theory. A little math intensive but very insightful. I recommend this book to anyone interested in quantum physics or the definition. Treiman begins with an overview of quantum mechanics.

The Odd Quantum is a remarkable survey of a field that changed the course of modern scientific and.

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