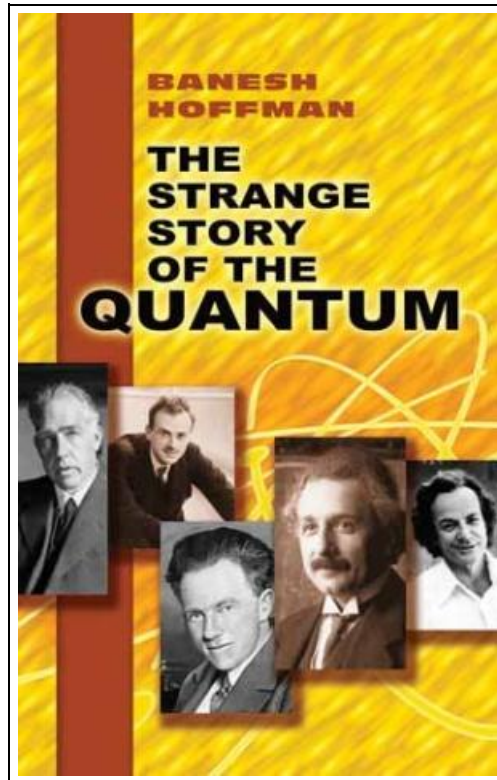


The Strange Story of the Quantum



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Reviews

This is the finest publication we have read through right up until now. Better then never, though i am quite late in start reading this one. Its been written in an remarkably easy way in fact it is only after i finished reading through this book by which basically altered me, affect the way i think.

(Dr. Gabriella Hayes)

THE STRANGE STORY OF THE QUANTUM



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Dover Publications Inc., United States, 2011. Paperback. Book Condition: New. New edition. 201 x 140 mm. Language: English . Brand New Book. Completely non-mathematical, yet wholly faithful to the basic concepts of quantum mechanics, this book tells the fascinating story of the most thoroughgoing revolution in physics since Newton. In the first year of the twentieth century, a professor of theoretical physics in Berlin, Max Planck, suggested that light was not absorbed smoothly, but rather in small bundles or quanta. Five years later, a Swiss patent clerk, Albert Einstein, proposed that the radiation itself must exist as quanta. Thus was born a new age in physics -- the age of the quantum -- in which some of the most basic assumptions of classical physics were swept away, and a magnificent new theoretical structure created. This new physics was steeped in higher mathematics. Its concepts were often in contradiction with common sense. It rapidly became increasingly abstract and complex, to such an extent that even those well versed in classical physics were often unable to follow its labyrinthine turns and twists. How then could the layman understand it? This book answers that question. By means of analogies, examples, and imaginative insights, it acquaints the layman with the historical development and basic meaning of such momentous theories and discoveries as Bohr s energy levels of the atom, Pauli s exclusion principle, de Broglie s wave theory, Bohr s correspondence principle. Schroedinger s wave equation, Heisenberg s uncertainty principle, Dirac s fundamental laws of quantum mechanics, Sommerfeld s fine structure theory, Feynman s world lines, electron spin, invariance, the quantum number, and numerous other concepts that so drastically changed our notion of the universe. A long postscript, written especially for this edition, brings the reader abreast of events to 1958. Of the books...



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