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QED: The Strange Theory of Light and Matter is an adaptation for the general reader of four lectures on quantum electrodynamics (QED) published in 1985 by American physicist and Nobel laureate Richard Feynman.. QED was designed to be a popular science book, written in a witty style, and containing just enough quantum-mechanical mathematics to allow the solving of very basic problems in quantum ...

~~QED: The Strange Theory of Light and Matter - Wikipedia~~

In QED: The Strange Theory of Light and Matter Richard P. Feynman explains, in his lucid and witty style, the revolutionary scientific theory that won him the Nobel Prize. Quantum electrodynamics - or QED for short - is the theory that explains how light and electrons interact, and in doing so illuminates the deepest and most complex mysteries of the world around us.

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Quantum electrodynamics - or QED for short - is the 'strange theory' that explains how light and electrons interact. Thanks to Richard Feynman, it is also one of the rare parts of physics that is known for sure. In this lucid set of lectures, Feynman provides the definitive introduction to QED.

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~~9780140125054: QED - The Strange Theory of Light and ...~~

QED is the theory that Richard Feynman got his Nobel Prize for, and he explains this eye-opening theory on his book QED: The Strange Theory of Light and Matter. The book starts by talking about the

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Author Name: Richard P. Feynman; Book Genre: Nonfiction, Physics, Popular Science, Science; ISBN # 9780691024172; Date of Publication: 1985 PDF / EPUB File Name: QED__The_Strange_Theory_of_Light_and_Matte_-_Richard_Feynman.pdf, QED__The_Strange_Theory_of_Light_and_Matte_-_Richard_Feynman.epub

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QED has been hailed as the most precise scientific theory ever constructed because its predictions have been confirmed by so many experiments throughout the last half of 20th century. It reconciles the many discrepancies between the 'classical' version of

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electromagnetism and quantum mechanics and successfully explains many other anomalies seen in nature.

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Beijing Normal University (China)

That monument of nineteenth-century physics, Maxwell's equations of electromagnetism, formulated light entirely as a wave. Then Einstein came along and explained the photoelectric effect by postulating light as the sum of little packets ("quanta") of energy. Thus were the word "photon" and the quantum theory of light born.

~~QED: The Strange Theory of Light and Matter Richard P. Feynman~~

In this theory, a photon is the light carrier with its strange features. The photon travels over all alternative paths from the source to the detector and here it is able to produce an interference pattern when

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the paths cross each other at an angle. In the graphical illustration all paths are drawn as straight lines.

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Quantum electrodynamics - or QED for short - is the theory that explains how light and electrons interact, and in doing so illuminates the deepest and most complex mysteries of the world around us.

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Qed: The Strange Theory of Light and Matter by Richard P. Feynman. In QED: The Strange Theory of Light and Matter Richard P. Feynman explains, in his lucid and witty style, the revolutionary scientific theory that won him the Nobel Prize. Quantum electrodynamics - or QED for short - is the theory that explains how light and electrons interact, and in doing so illuminates the deepest and most complex mysteries of the world around us.

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In particle physics, quantum electrodynamics (QED) is the relativistic quantum field theory of electrodynamics. In essence, it describes how light and matter interact and is the first theory where full agreement between quantum mechanics and special relativity is achieved.

~~Quantum electrodynamics - Wikipedia~~

In this quirky, fascinating book, he explains to laymen the quantum theory of light a theory to which he made decisive contributions."--The New Yorker "Feynman's lectures must have been marvellous and they have been turned into an equally entrancing book, a vivid introduction to QED which is leavened and enlivened by his wit.

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QED: The Strange Theory of Light and Matter is an outstanding book on a subject that is often overlooked or glossed-over in many popular physics books. Feynman does a deep dive on Quantum Electrodynamics: a theory that deals not only with the various interactions between light and matter, but which can be applied to every area of physics with the exception of gravitation and nuclear physics.

Celebrated for his brilliantly quirky insights into the physical world, Nobel laureate Richard Feynman also possessed an extraordinary talent for explaining difficult concepts to the general public. Here Feynman provides a classic and definitive introduction to QED (namely, quantum electrodynamics), that part of quantum field theory describing the interactions of light with charged particles. Using everyday language, spatial concepts, visualizations, and his renowned "Feynman diagrams" instead of advanced mathematics, Feynman clearly and humorously communicates both the substance and spirit of QED to the layperson. A. Zee's introduction places Feynman's book and his seminal contribution to QED in historical context and further highlights Feynman's uniquely appealing and illuminating style.

Using everyday language, spatial concepts, visualizations and his renowned "Feynman diagrams," the author clearly and humorously communicates the substance and spirit of QED (quantum electrodynamics).

This book is a straightforward, honest explanation of a rather difficult subject- the theory of quantum electrodynamics- for a non-technical audience. It is designed to give the interested reader an appreciation for the kind of thinking that physicists have resorted to

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in order to explain how Nature behaves.

What happens to light when it is trapped in a box? Cavity Quantum Electrodynamics addresses a fascinating question in physics: what happens to light, and in particular to its interaction with matter, when it is trapped inside a box? With the aid of a model-building approach, readers discover the answer to this question and come to appreciate its important applications in computing, cryptography, quantum teleportation, and opto-electronics. Instead of taking a traditional approach that requires readers to first master a series of seemingly unconnected mathematical techniques, this book engages the readers' interest and imagination by going straight to the point, introducing the mathematics along the way as needed. Appendices are provided for the additional mathematical theory. Researchers, scientists, and students of modern physics can refer to Cavity Quantum Electrodynamics and examine the field thoroughly. Several key topics covered that readers cannot find in any other quantum optics book include: * Introduction to the problem of the "vacuum catastrophe" and the cosmological constant * Detailed up-to-date account of cavity QED lasers and thresholdless lasing * Examination of cavities with movable walls * First-principles discussion about cavity QED in open cavities * Pedagogical account of microscopic quantization in dielectrics

Complementing the coverage of the most advanced theory and techniques, the author provides context by discussing the historical evolution of the field and its discoveries. In that spirit, "recommended reading," provided in each chapter, leads readers to both contemporary literature as well as key historical papers. Despite being one of many specialties within physics, cavity quantum electrodynamics serves as a window to many of the fundamental issues of physics. Cavity Quantum Electrodynamics will serve as an excellent resource for advanced undergraduate quantum mechanics courses as well as for graduate students, researchers, and scientists who need a comprehensive introduction to the field.

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THE STORY: Nobel Prize-winning physicist Richard Feynman holds forth with captivating wit and wisdom in this fascinating play that originally starred Alan Alda. One of the twentieth century's great physicists, Feynman was also one of its great ecces

This classic work presents the main results and calculational procedures of quantum electrodynamics in a simple and straightforward way. Designed for the student of experimental physics who does not intend to take more advanced graduate courses in theoretical physics, the material consists of notes on the third of a three-semester course given at the California Institute of Technology.

Self-contained, systematic introduction examines application of quantum electrodynamics to interpretation of optical experiments on atoms and molecules and explains the quantum theory of electromagnetic radiation and its interaction with matter.

This is an exceptionally accessible, accurate, and non-technical introduction to quantum mechanics. After briefly summarizing the differences between classical and quantum behaviour, this engaging account considers the Stern-Gerlach experiment and its implications, treats the concepts of probability, and then discusses the Einstein-Podolsky-Rosen paradox and Bell's theorem. Quantal interference and the concept of amplitudes are introduced and the link revealed between probabilities and the interference of amplitudes. Quantal amplitude is employed to describe interference effects. Final chapters explore exciting new developments in quantum computation and cryptography, discover the unexpected behaviour of a quantal bouncing-ball, and tackle the challenge of describing a particle with no position. Thought-provoking problems and suggestions for further reading are included. Suitable for use as a course text, *The Strange World of Quantum Mechanics* enables

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students to develop a genuine understanding of the domain of the very small. It will also appeal to general readers seeking intellectual adventure.

The New York Times best-selling sequel to "Surely You're Joking, Mr. Feynman!" One of the greatest physicists of the twentieth century, Richard Feynman possessed an unquenchable thirst for adventure and an unparalleled ability to tell the stories of his life. "What Do You Care What Other People Think?" is Feynman's last literary legacy, prepared with his friend and fellow drummer, Ralph Leighton. Among its many tales—some funny, others intensely moving—we meet Feynman's first wife, Arlene, who taught him of love's irreducible mystery as she lay dying in a hospital bed while he worked nearby on the atomic bomb at Los Alamos. We are also given a fascinating narrative of the investigation of the space shuttle Challenger's explosion in 1986, and we relive the moment when Feynman revealed the disaster's cause by an elegant experiment: dropping a ring of rubber into a glass of cold water and pulling it out, misshapen.

No twentieth-century American scientist is better known to a wider spectrum of people than Richard P. Feynman (1918-1988) -- physicist, teacher, author, and cultural icon. His autobiographies and biographies have been read and enjoyed by millions of readers around the world, while his wit and eccentricities have made him the subject of TV specials and even a theatrical film. The spectacular reception of the book and audio versions of Feynman's Six Easy Pieces (published in 1995) resulted in a worldwide clamor for "More Feynman! More Feynman!" The outcome is these six additional lectures, drawn from the celebrated three-volume Lectures on Physics. Though slightly more challenging than the first six, these lectures are more focused, delving into the most revolutionary discovery in twentieth-century physics: Einstein's Theory of Relativity. No single breakthrough in twentieth-century

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physics (with the possible exception of quantum mechanics) changed our view of the world more than that of Einstein's discovery of relativity. The notions that the flow of time is not a constant, that the mass of an object depends on its velocity, and that the speed of light is a constant no matter what the motion of the observer, at first seemed shocking to scientists and laymen alike. But, as Feynman shows so clearly and so entertainingly in the lectures chosen for this volume, these crazy notions are no mere dry principles of physics, but are things of beauty and elegance. No one -- not even Einstein himself -- explained these difficult, anti-intuitive concepts more clearly, or with more verve and gusto, than Richard Feynman.

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