**QED**

**(Quantum ElectroDynamics)**

**BY RICHARD FEYNMAN**

**This book is a review of 4 lectures that Feynman gave at UCLA in 1983. Though some advances have been made, most of the concepts explained in this book are quite relevant to modern day quantum electrodynamic theory. Reading this book added 100 points to my I.Q., which, for the first time in my life, gives me a positive I.Q.**

**Here are some of the main points about the Feynman diagrams used in quantum electrodynamics, that you will learn from this book:**

* **The length of a Feynman arrow represents its probability amplitude.**
* **The direction of the arrow represents the elapsed time between events.**
* **The length of the final arrow (squared) is the probability that an event will happen.**

**He describes the physics behind glass panes, mirrors, and focusing lenses. That may sound boring but it isn't. He presents examples that every reader can relate to, and then explains very clearly just what is going on in the quantum realm. There are only 3 basic actions which describe all observed phenomena of both light and electrons. The most interesting one being that electrons absorb and emit photons.**

**Feynman explains electromagnetism, and the strong and weak nuclear forces. Gravity is not discussed because, at the quantum level, it is simply too weak to have any measurable impact on events.**

**GRADE A**

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