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Quantum Electrodynamics (Advanced Books Classics)



Synopsis

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.

Book Information

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Customer Reviews

Richard P. Feynman was raised in Far Rockaway, New York, and received his Ph.D. from Princeton. He held professorships at both Cornell and the California Institute of Technology. In 1965 he received the Nobel Prize for his work on quantum electrodynamics. He died in 1988.

Feynman teaches his own diagram approaches to QED. Just think about it! And compare to the 3 vol. of Schwinger's text...

I know two kinds of books on the Quantum Electrodynamics by Richard P. Feynman; "Q.E.D." and this title "Quantum Electrodynamics". Once I owned both. But by my mistake I lost "Quantum Elec...". Rubendoz's review looks like one for "Q.E.D.", a good book for the Physics Student who begins to learn Q.E.D., but also good for the laymen who wants to understand the perspect of the theory. Now my question: Tell me - since Rubendoz's review confuses me - if this book is a

renamed version of the easier - if it is - book, "Q.E.D.", or the formula-prone book, "Quantum Electrodynamics" , to say, the harder book. I wish there were the publisher's review which would make this point clear. Thanks.

theoretical

This book collects a set of lectures by Feynman on quantum electrodynamics and a few reprints of his papers on the subject. Nowadays it would be a (hard) graduate course. At its time it was written for Feynman's peers. At that time the method developed by him, though he had total control of it, was not complete as far as derivations are concerned. However, each topic was solidly grounded on the basis of specific arguments. This is how things are done. Usually you have a hundred incomplete arguments which, put together, are, so to speak, stronger than a formal demonstration. And, what arguments! What insight this (then) young guy had already! This book is for pleasure! You probably should read it together with some modern text, like Veltman's "Diagrammatica", to get the modern perspective and also to see how little, after all, was changed. A companion book, called "Theory of Fundamental Processes" is also a sterling lecture, for the same reasons. Perhaps even more so.

I got it for my son for a birthday present, because that is what he wanted. He said it is fine, he really likes the book. That is all I can tell you. He lives across the nation from me.

People reading this book must be safely assumed to be physics oriented guys esp the ones in particle physics. The book is a good introduction for an amateur who is not necessarily a good mathematician cuz this book has surprisingly NO glamorous formulae associated with QED. It doesn't give you in-depth scrutiny of the high-energy world yet it gives you enough to keep you interested all the way. The title can be mis-leading cuz it doesn't really cover extensive knowledge about the field, should've been introductory QED or something on those lines. Anyways should be fun to read iff you want to know the nuances of matter !

I think this is a good supplemental book. it's like his course on physics; you cant learn from it alone; but with a canonical text it adds wonderful insight on a subject. His theory of fundamental processes is out of date (way before tau neutrinos, and there are mistakes in parts); so i would avoid that one. this one I find to be about the level of sophistication of his lectures on gravitation, but explaining field

theory. Feynman naturally has a slightly more functional approach than other books of this era. I think it's a good book to keep next to something like Peskin and Schroeder in one's personal library.

Pretty sure there's insights, just having hard time with notation. Could be an e-book problem.

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