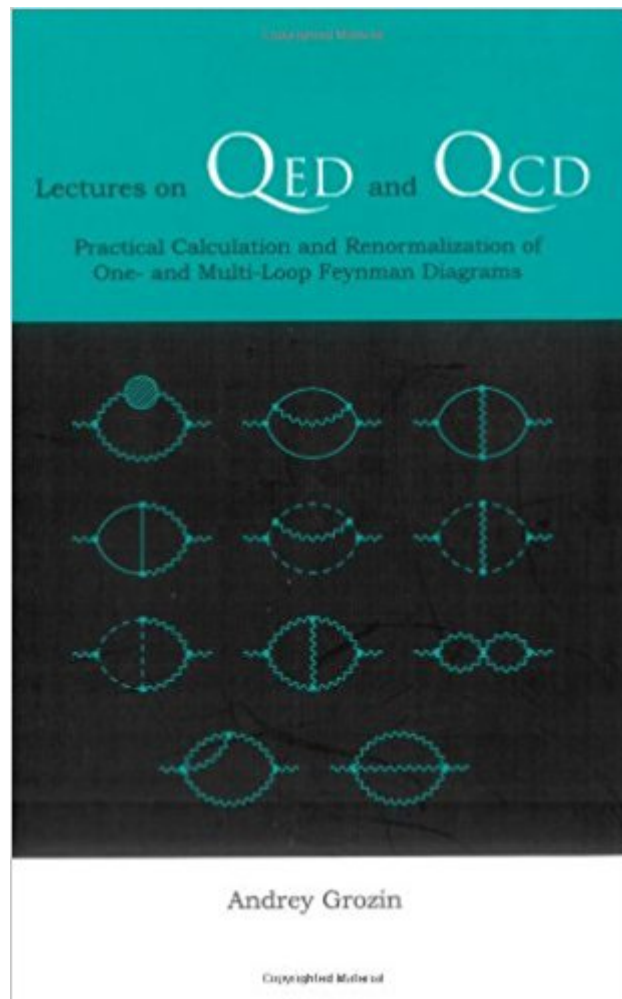


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LECTURES ON QED AND QCD: PRACTICAL CALCULATION AND RENORMALIZATION OF ONE- AND MULTI-LOOP FEYNMAN DIAGRAMS



Synopsis

The increasing precision of experimental data in many areas of elementary particle physics requires an equally precise theoretical description. In particular, radiative corrections (described by one- and multi-loop Feynman diagrams) have to be considered. Although a growing number of physicists are involved in such projects, multi-loop calculation methods can only be studied from original publications. With its coverage of multi-loop calculations, this book serves as an excellent supplement to the standard textbooks on quantum field theory. Based around postgraduate-level lectures given by the author, the material is suitable for both beginners and graduate students.

Book Information

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This book addresses how to do QED and QCD calculations, but has a number of items it says that it does not explain, such as small black dots next to some of the paths, with no explanation about what it means. Could be very valuable, in the right hands. I am still looking for a book that is the next step beyond Finemann's QED.

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