



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

*Andrey Grozin*

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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.

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