

# **THEORETICAL PHYSICS 4**

**Text and Exercise Books**

**W. Greiner J. Reinhardt**

## **Quantum Electrodynamics**

*With a Foreword by D. A. Bromley*



**Springer-Verlag**

# Theoretical Physics Quantum Electrodynamics V 4 Text And Exercise Books

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## **Theoretical Physics Quantum Electrodynamics V 4 Text And Exercise Books:**

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**Quantum Electrodynamics** Walter Greiner, Joachim Reinhardt, 2012-12-06 The need for a second edition of our text on Quantum Electrodynamics has given us the opportunity to implement some corrections and amendments We have corrected a number of misprints and minor errors and have supplied additional explanatory remarks at various places Furthermore some new material has been included on the magnetic moment of the muon in Example 5.6 and on the Lamb shift in Example 5.8 Finally we have added the new Example 3.17 which explains the equivalent photon method We thank several colleagues for helpful comments and also are grateful to Dr R. Mattiello who has supervised the preparation of the second edition of the book Furthermore we acknowledge the agreeable collaboration with Dr H. J. K6lsch and his team at Springer Verlag Heidelberg Frankfurt am Main Walter Greiner July 1994 Joachim Reinhardt

Preface to the First Edition Theoretical physics has become a many faceted science For the young student it is difficult enough to cope with the overwhelming amount of new scientific material that has to be learned let alone obtain an overview of the entire field which ranges from mechanics through electrodynamics quantum mechanics field theory nuclear and heavy ion science statistical mechanics thermodynamics and solid state theory to elementary particle physics And this knowledge should be acquired in just 8-10 semesters during which in addition a Diploma or Master's thesis has to be worked on or examinations prepared for

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solutions Numerous applications are discussed in detail including the two center Dirac equation hole theory CPT symmetry Klein's paradox and relativistic symmetry principles Chapter 15 presents the relativistic wave equations for higher spin Proca Rarita Schwinger and Bargmann Wigner The extensive presentation of the mathematical tools and the 62 worked examples and problems make this a unique text for an advanced quantum mechanics course Quantum Mechanics Walter Greiner, 2013-12-01 More than a generation of German speaking students around the world have worked their way to an understanding and appreciation of the power and beauty of modern theoretical physics with mathematics the most fundamental of sciences using Walter Greiner's textbooks as their guide The idea of developing a coherent complete presentation of an entire field of science in a series of closely related textbooks is not a new one Many older physicists remember with real pleasure their sense of adventure and discovery as they worked their ways through the classic series by Sommerfeld by Planck and by Landau and Lifshitz From the students viewpoint there are a great many obvious advantages to be gained through use of consistent notation logical ordering of topics and coherence of presentation beyond this the complete coverage of the science provides a unique opportunity for the author to convey his personal enthusiasm and love for his subject The present five volume set Theoretical Physics is in fact only that part of the complete set of textbooks developed by Greiner and his students that presents the quantum theory I have long urged him to make the remaining volumes on classical mechanics and dynamics on electromagnetism on nuclear and particle physics and on special topics available to an English speaking audience as well and we can hope for these companion volumes covering all of theoretical physics some time in the future *Soviet Physics, Uspekhi* ,1990 **Mathematical Reviews** ,1996 **Books in Print** ,1991

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