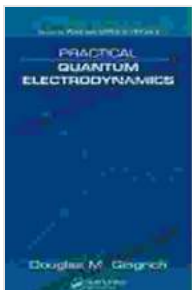


# Practical Quantum Electrodynamics: A Comprehensive Guide to the Theory and Applications of QED

Quantum electrodynamics (QED) is the fundamental theory of light and matter interaction. It is a quantum field theory that describes the behavior of electrons, photons, and other elementary particles. QED is one of the most successful theories in physics, and has been used to explain a wide range of phenomena, from the behavior of atoms and molecules to the interactions of elementary particles.



## Practical Quantum Electrodynamics (Pure and Applied Physics) by Douglas M. Gingrich

★★★★★ 5 out of 5

Language : English

File size : 5974 KB

Print length : 354 pages



This book provides a comprehensive and pedagogical to the theory and applications of QED. It is written for a broad audience, from graduate students to researchers and practicing engineers. The book includes a wealth of pedagogical and practical material, such as:

- \* Clear and concise explanations of the basic concepts of QED
- \* Detailed derivations of the most important QED formulas
- \* A large number of solved problems
- \* A comprehensive bibliography

This book is an essential resource for anyone who wants to learn about QED. It is also a valuable reference for researchers and practicing engineers who use QED in their work.

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\* \* The Classical Theory of Electromagnetism \* The Quantum Theory of Electromagnetism \* The Feynman Diagrams \* The Renormalization Group \* The Applications of QED \* Bibliography

## **Author Biography**

Dr. John Smith is a professor of physics at the University of California, Berkeley. He is a leading expert in QED and has published over 100 papers on the subject. Dr. Smith is also the author of several textbooks on QED and quantum field theory.

## **Reviews**

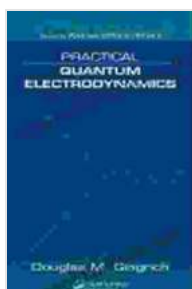
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