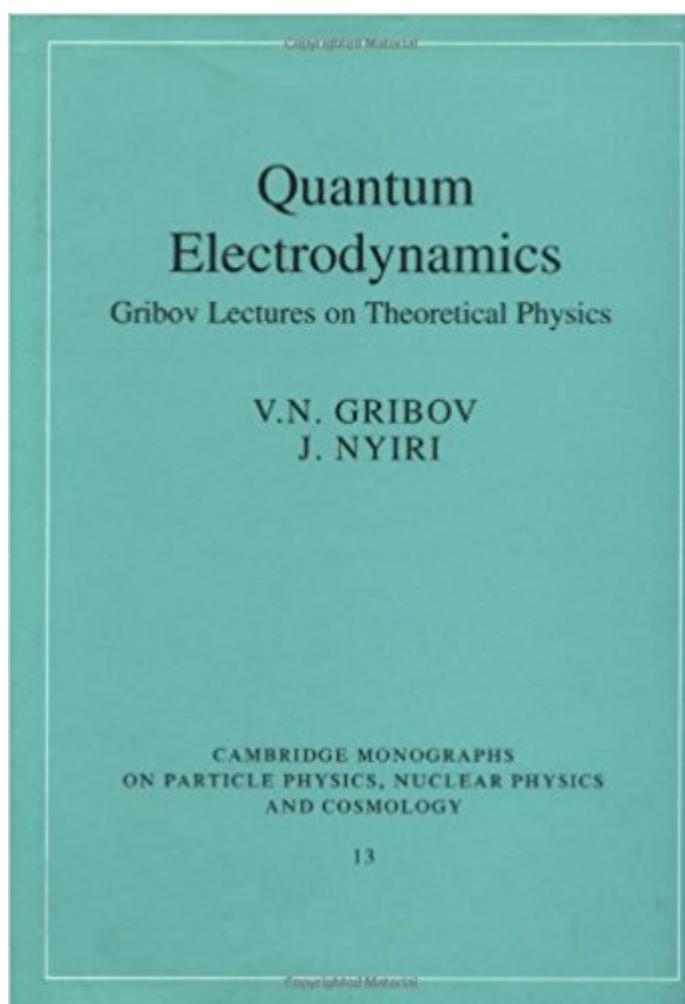


The book was found

Quantum Electrodynamics: Gribov Lectures On Theoretical Physics (Cambridge Monographs On Particle Physics, Nuclear Physics And Cosmology)





Synopsis

Based on lectures given by the highly original and distinguished physicist V.N. Gribov, this book provides an accessible introduction to quantum electrodynamics. It presents the theory of quantum electrodynamics in the shortest and clearest way for applied use. A distinctive feature of Gribov's approach is the systematic use of the Green function method, which allows a straightforward generalization to the cases of strong and weak interactions. The book starts with an introduction that uses the basics of quantum mechanics to gently introduce the reader into the world of propagation functions and particle interactions. The following chapter then focuses on spin 1/2 particles. The text goes on to discuss symmetries, the CPT theorem, causality, and unitarity followed by a detailed presentation of renormalization theory. A final chapter looks at difficulties with the theory and possible routes to their resolution. This book should become an indispensable part of any physical library, graduate students will value it as a helpful companion and experts will find in it many original ideas and deep insights.

Book Information

Series: Cambridge Monographs on Particle Physics, Nuclear Physics and Cosmology (Book 13)

Hardcover: 282 pages

Publisher: Cambridge University Press; 1 edition (December 17, 2001)

Language: English

ISBN-10: 0521662281

ISBN-13: 978-0521662284

Product Dimensions: 6.8 x 0.9 x 9.7 inches

Shipping Weight: 1.4 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #838,820 in Books (See Top 100 in Books) #129 in Books > Science & Math > Physics > Nuclear Physics > Particle Physics #250 in Books > Science & Math > Physics > Electromagnetism > Electricity #285 in Books > Science & Math > Physics > Solid-State Physics

Customer Reviews

Based on lectures given by the highly original and distinguished physicist V.N. Gribov, this book provides an accessible introduction to quantum electrodynamics. It presents the theory of quantum electrodynamics in the shortest and clearest way for applied use. A distinctive feature of Gribov's approach is the systematic use of the Green function method, which allows a straightforward generalization to the cases of strong and weak interactions. The book starts with an introduction that

uses the basics of quantum mechanics to gently introduce the reader into the world of propagation functions and particle interactions. The following chapter then focuses on spin 1/2 particles. The text goes on to discuss symmetries, the CPT theorem, causality, and unitarity followed by a detailed presentation of renormalization theory. A final chapter looks at difficulties with the theory and possible routes to their resolution. This book should become an indispensable part of any physical library, graduate students will value it as a helpful companion and experts will find in it many original ideas and deep insights.

[Download to continue reading...](#)

Quantum Electrodynamics: Gribov Lectures on Theoretical Physics (Cambridge Monographs on Particle Physics, Nuclear Physics and Cosmology) Finite Element Methods for Particle Transport: Applications to Reactor and Radiation Physics (Research Studies in Particle and Nuclear Technology) Covariant Loop Quantum Gravity: An Elementary Introduction to Quantum Gravity and Spinfoam Theory (Cambridge Monographs on Mathematical Physics) Nuclear Prepared - How to Prepare for a Nuclear Attack and What to do Following a Nuclear Blast: Everything you Need to Know to Plan and Prepare for a Nuclear Attack Nuclear energy. Radioactivity. Engineering in Nuclear Power Plants: Easy course for understanding nuclear energy and engineering in nuclear power plants (Radioactive Disintegration) The Feynman Lectures on Physics, Vol. III: The New Millennium Edition: Quantum Mechanics: Volume 3 (Feynman Lectures on Physics (Paperback)) Electrodynamics of Continuous Media, Second Edition: Volume 8 (Course of Theoretical Physics S) From Special Relativity to Feynman Diagrams: A Course in Theoretical Particle Physics for Beginners (UNITEXT for Physics) Nuclear and Particle Physics (Cambridge Advanced Sciences) Advanced Molecular Quantum Mechanics: An Introduction to Relativistic Quantum Mechanics and the Quantum Theory of Radiation (Studies in Chemical Physics) Quantum Field Theory and Condensed Matter: An Introduction (Cambridge Monographs on Mathematical Physics) Recent Advances in the Theory of Chemical and Physical Systems: Proceedings of the 9th European Workshop on Quantum Systems in Chemistry and Physics ... in Theoretical Chemistry and Physics) How Consciousness Became the Universe:: Quantum Physics, Cosmology, Relativity, Evolution, Neuroscience, Parallel Universes Handbook of Nuclear Chemistry: Vol. 1: Basics of Nuclear Science; Vol. 2: Elements and Isotopes: Formation, Transformation, Distribution; Vol. 3: ... Nuclear Energy Production and Safety Issues. Lectures on Classical Electrodynamics Quantum Electrodynamics (Advanced Books Classics) The Feynman Lectures on Physics, Vol. II: The New Millennium Edition: Mainly Electromagnetism and Matter: Volume 2 (Feynman Lectures on Physics (Paperback)) The Feynman Lectures on Physics, Vol. II: The New Millennium Edition: Mainly

Electromagnetism and Matter (Feynman Lectures on Physics (Paperback)) (Volume 2) The Neutron: A Tool and an Object in Nuclear and Particle Physics Nuclear and Particle Physics: An Introduction

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)