


Walter Greiner  
Berndt Müller

# Gauge Theory of Weak Interactions

*Fourth Edition*

 Springer

# Gauge Theories Of Weak Interactions

**Puja Mehta**



## **Gauge Theories Of Weak Interactions:**

Gauge theories of weak interactions John Clayton Taylor, 1976      **Gauge Theory of Weak Interactions** Professor at the Institute of Theoretical Physics Walter Greiner, Walter Greiner, Berndt Müller, 2000 Gauge Theory of Weak Interactions treats the unification of electromagnetic and weak interactions and considers related phenomena First the Fermi theory of beta decay is presented followed by a discussion of parity violation clarifying the importance of symmetries Then the concept of a spontaneously broken gauge theory is introduced and all necessary mathematical tools are carefully developed The standard model of unified electroweak interactions is thoroughly discussed including current developments The final chapter contains an introduction to unified theories of strong and electroweak interactions Numerous solved examples and problems make this volume uniquely suited as a text for an advanced course This third edition has been carefully revised      Gauge theories of weak interactions John C. Taylor, 1978      **Gauge Theories Of Strong, Weak, And Electromagnetic**

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Greiner, Berndt Müller, 2009 Gauge Theory of Weak Interactions treats the unification of electromagnetic and weak interactions and considers related phenomena First the Fermi theory of beta decay is presented followed by a discussion of parity violation clarifying the importance of symmetries Then the concept of a spontaneously broken gauge theory is introduced and all necessary mathematical tools are carefully developed The standard model of unified electroweak interactions is thoroughly discussed including current developments The final chapter contains an introduction to unified theories of strong and electroweak interactions Numerous solved examples and problems make this volume uniquely suited as a text for an advanced course This fourth edition has been carefully revised      **Gauge Theory of Weak Interactions**

Berndt Müller, 2000-01-01      *Gauge Theories of the Strong, Weak, and Electromagnetic Interactions* Chris Quigg, 2013-09-23 A thoroughly revised edition of a landmark textbook on gauge theories and their applications to particle physics This completely revised and updated graduate level textbook is an ideal introduction to gauge theories and their applications to high energy particle physics and takes an in depth look at two new laws of nature quantum chromodynamics and the electroweak theory From quantum electrodynamics through unified theories of the interactions among leptons and quarks Chris Quigg examines the logic and structure behind gauge theories and the experimental underpinnings of today's

theories Quigg emphasizes how we know what we know and in the era of the Large Hadron Collider his insightful survey of the standard model and the next great questions for particle physics makes for compelling reading The brand new edition shows how the electroweak theory developed in conversation with experiment Featuring a wide ranging treatment of electroweak symmetry breaking the physics of the Higgs boson and the importance of the 1 TeV scale the book moves beyond established knowledge and investigates the path toward unified theories of strong weak and electromagnetic interactions Explicit calculations and diverse exercises allow readers to derive the consequences of these theories Extensive annotated bibliographies accompany each chapter amplify points of conceptual or technical interest introduce further applications and lead readers to the research literature Students and seasoned practitioners will profit from the text s current insights and specialists wishing to understand gauge theories will find the book an ideal reference for self study Brand new edition of a landmark text introducing gauge theories Consistent attention to how we know what we know Explicit calculations develop concepts and engage with experiment Interesting and diverse problems sharpen skills and ideas Extensive annotated bibliographies Gauge Theories in Particle Physics, Volume II I.J.R. Aitchison,A.J.G. Hey,2003-12-01 This is the second volume of the third edition of a successful text now substantially enlarged and updated to reflect developments over the last decade in the curricula of university courses and in particle physics research Volume I covered relativistic quantum mechanics electromagnetism as a gauge theory and introductory quantum field theory and ended with the formulation and application of quantum electrodynamics QED including renormalization Building on these foundations this second volume provides a complete accessible and self contained introduction to the remaining two gauge theories of the standard model of particle physics quantum chromodynamics QCD and the electroweak theory The treatment significantly extends that of the second edition in several important respects Simple ideas of group theory are now incorporated into the discussion of non Abelian symmetries Two new chapters have been added on QCD one devoted to the renormalization group and scaling violations in deep inelastic scattering and the other to non perturbative aspects of QCD using the lattice path integral formulation of quantum field theory the latter is also used to illuminate various aspects of renormalization theory via analogies with condensed matter systems Three chapters treat the fundamental topic of spontaneous symmetry breaking the Bogoliubov superfluid and the BCS superconductor are studied in some detail one chapter is devoted to the implications of global chiral symmetry breaking in QCD and one to the breaking of local  $SU(2) \times U(1)$  symmetry in the electroweak theory Weak interaction phenomenology is extended to include discussion of discrete symmetries and of the possibility that neutrinos are Majorana rather than Dirac particles Most of these topics are normally found only in more advanced texts and this is the first book to treat them in a manner accessible to the wide readership that the previous editions have attracted

**Gauge Theory of Weak Interactions** Walter Greiner,Berndt Müller,1996      **Selected Papers on Gauge Theory of Weak and Electromagnetic Interactions** C. H. Lai,1981 A volume of selected original papers on the synthesis of the two

fundamental forces of nature It is intended to provide graduate students and physicists in the field with an easy access to the original literature *Gauge Theory Of Weak And Electromagnetic Interactions* Choy Heng Lai,1981-01-31 A volume of selected original papers on the synthesis of the two fundamental forces of nature It is intended to provide graduate students and physicists in the field with an easy access to the original literature [Gauge Theory Of Weak Interactions, 3E](#) Greiner,2008-09-01 *Gauge Theories in Particle Physics: A Practical Introduction, Volume 2: Non-Abelian Gauge Theories* Ian J R Aitchison,Anthony J.G. Hey,2012-12-17 Volume 2 of this revised and updated edition provides an accessible and practical introduction to the two non Abelian quantum gauge field theories of the Standard Model of particle physics quantum chromodynamics QCD and the Glashow Salam Weinberg GSW electroweak theory This volume covers much of the experimental progress made in the last ten years A new chapter on CP violation and oscillation phenomena describes CP violation in B meson decays as well as the main experiments that have led to our current knowledge of mass squared differences and mixing angles in neutrino physics Exploring a new era in particle physics this edition discusses one of the most recent and exciting breakthroughs the discovery of a boson with properties consistent with those of the Standard Model Higgs boson It also updates many other topics including jet algorithms lattice QCD effective Lagrangians and three generation quark mixing and the CKM matrix New to the Fourth Edition New chapter on CP violation and oscillations in mesonic and neutrino systems New section on three generation quark mixing and the CKM matrix Improved discussion of two jet cross section in electron positron annihilation New section on jet algorithms Recent lattice QCD calculations with dynamical fermions New section on effective Lagrangians for spontaneously broken chiral symmetry including the three flavor extension meson mass relations and chiral perturbation theory Update of asymptotic freedom Discussion of the historic discovery of a Higgs like boson The authors discuss the main conceptual points of the theories detail many practical calculations of physical quantities from first principles and compare these quantitative predictions with experimental results helping readers improve both their calculation skills and physical insight **Gauge Theories in Particle Physics: A Practical Introduction, Fourth Edition - 2 Volume set** Ian J.R. Aitchison,Anthony J.G. Hey,2021-01-14 The fourth edition of this well established highly regarded two volume set continues to provide a fundamental introduction to advanced particle physics while incorporating substantial new experimental results especially in the areas of CP violation and neutrino oscillations It offers an accessible and practical introduction to the three gauge theories included in the Standard Model of particle physics quantum electrodynamics QED quantum chromodynamics QCD and the Glashow Salam Weinberg GSW electroweak theory In the first volume a new chapter on Lorentz transformations and discrete symmetries presents a simple treatment of Lorentz transformations of Dirac spinors Along with updating experimental results this edition also introduces Majorana fermions at an early stage making the material suitable for a first course in relativistic quantum mechanics Covering much of the experimental progress made in the last ten years the second volume remains focused on the two non

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**Gauge Theories of the Strong and Electroweak Interaction** Manfred Böhm, Ansgar Denner, Hans Joos, 2012-12-06 The gauge theories for the strong and electroweak interaction have become the Standard Model of particle physics They realize in a consistent way the requirements of quantum theory special relativity and symmetry principles For the first time we have a consistent theory of the fundamental interactions that allows for precision calculations for many experiments The Standard Model has up to now successfully passed all experimental tests This success establishes the importance of gauge theories despite the fact that gravity is not included and that the Standard Model is most likely an effective theory resulting from the low energy limit of a more fundamental theory The aim of this book is to present the basic ideas and concepts the technical tools and the predictions of the gauge theories for the fundamental constituents of matter and their interactions Quantum Chromodynamics for the strong interaction and the Electroweak Standard Model for the unified electromagnetic and weak interaction Gauge Theories in Particle Physics, Ian Johnston Rhind Aitchison, Anthony J. G. Hey, 1989 Intended as an accessible and practical introduction to gauge theories this volume discusses the main conceptual aspects examines the practical calculations of physical quantities and offers comparisons of these quantitative predictions with experimental results *Theoretical Physics Text and Exercise Books* Walter Greiner, Berndt

Müller, 1993-12-03 More than a generation of Gennan 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

**Gauge Theory of Weak and Electromagnetic Interactions** C. H. Lai, 1981 Gauge Theories of the Weak Interactions. [Lectures]., 1978 Two lectures are presented on the Weinberg Salam Glashow Iliopoulos Maiani gauge theory for weak interactions An attempt is made to give some impressions of the generality of this model how it was developed variations found in the literature and the status of the standard model 21 references JFP **Gauge Theories of Weak Interactions** Mirza Abdul Baqi Bég, Alberto Sirlin, North-Holland Publishing Company, 1982

## Unveiling the Magic of Words: A Overview of "**Gauge Theories Of Weak Interactions**"

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