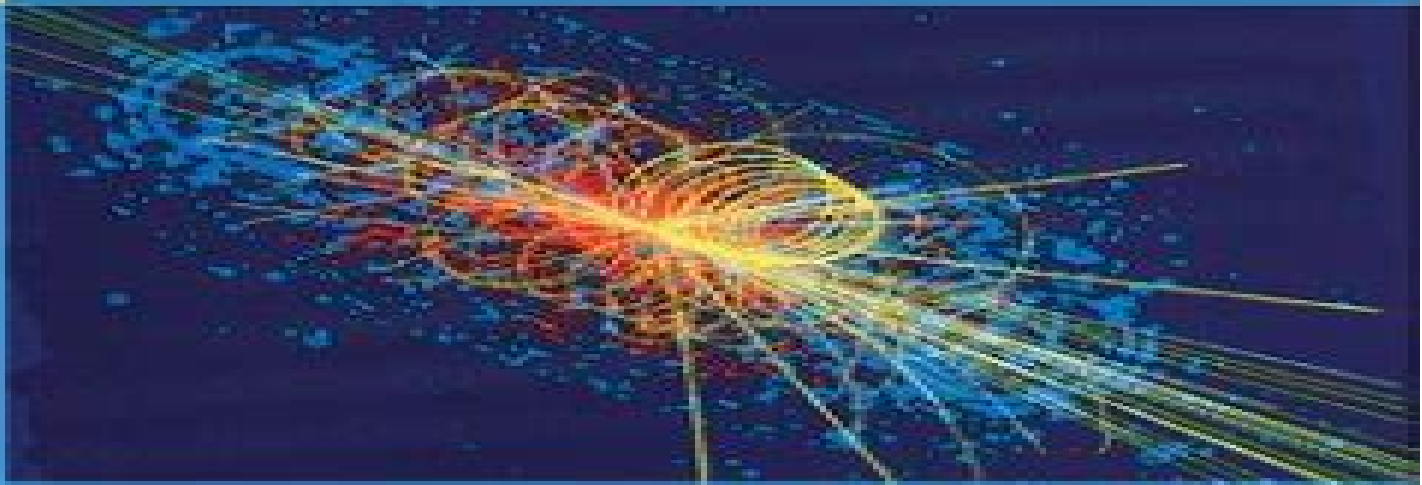


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Gauge Theories In Particle Physics A Practical Introduction Graduate Student Series In Physics

Ian J R Aitchison,Anthony J.G. Hey



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Gauge Theories in Particle Physics: A Practical Introduction, Volume 1 Ian J R Aitchison, Anthony J.G. Hey, 2012-12-17 Volume 1 of this revised and updated edition provides an accessible and practical introduction to the first gauge theory included in the Standard Model of particle physics quantum electrodynamics QED The book includes self contained presentations of electromagnetism as a gauge theory as well as relativistic quantum mechanics It provides a unique *Gauge Theories in Particle Physics* I.J.R. Aitchison, A.J.G. Hey, 2002-09-01 *Gauge Theories in Particle Physics Volume 1* From Relativistic Quantum Mechanics to QED Third Edition presents an accessible practical and comprehensive introduction to the three gauge theories of the standard model of particle physics quantum electrodynamics QED quantum chromodynamics QCD and the electroweak theory For each of them the authors provide a thorough discussion of the main conceptual points a detailed exposition of many practical calculations of physical quantities and a comparison of these quantitative predictions with experimental results For this two volume third edition much of the book has been rewritten to reflect developments over the last decade both in the curricula of university courses and in particle physics research Substantial new material has been introduced that is intended for use in undergraduate physics courses New introductory chapters provide a precise historical account of the properties of quarks and leptons and a qualitative overview of the quantum field description of their interactions at a level appropriate to third year courses The chapter on relativistic quantum mechanics has been enlarged and is supplemented by additional sections on scattering theory and Green functions in a form appropriate to fourth year courses Since precision experiments now test the theories beyond lowest order in perturbation theory an understanding of the data requires a more sophisticated knowledge of quantum field theory including ideas of renormalization The treatment of quantum field theory has therefore been considerably extended so as to provide a uniquely accessible and self contained introduction to quantum field dynamics as described by Feynman graphs The level is suitable for advanced fourth year undergraduates and first year graduates These developments are all contained in the first volume which ends with a

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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

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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

Introduction to Gauge Field

Theory Revised Edition D. Bailin, Alexander Love, 1993-01-01 Introduction to Gauge Field Theory provides comprehensive coverage of modern relativistic quantum field theory emphasizing the details of actual calculations rather than the phenomenology of the applications Forming a foundation in the subject the book assumes knowledge of relativistic quantum mechanics but not of quantum field theory The book is ideal for graduate students advanced undergraduates and researchers in the field of particle physics

Introduction to Quantum Field Theory Anthony G. Williams, 2022-08-04 This textbook offers a detailed and uniquely self contained presentation of quantum and gauge field theories Writing from a modern perspective the author begins with a discussion of advanced dynamics and special relativity before guiding students steadily through the fundamental principles of relativistic quantum mechanics and classical field theory This foundation is then used to develop the full theoretical framework of quantum and gauge field theories The introductory opening half of the book allows it to be used for a variety of courses from advanced undergraduate to graduate level and students lacking a formal background in more elementary topics will benefit greatly from this approach Williams provides full derivations wherever possible and adopts a pedagogical tone without sacrificing rigour Worked examples are included throughout the text and end of chapter problems help students to reinforce key concepts A fully worked solutions manual is available online for instructors

Gauge Theories in Particle Physics, 40th Anniversary Edition: A Practical Introduction, Volume 2 Ian J R Aitchison, Anthony J.G. Hey, 2024-06-19 The fifth 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 Higgs and top sector physics as well as CP violation and neutrino oscillations It offers an accessible and practical introduction to the three gauge theories comprising the Standard Model of particle physics quantum electrodynamics QED quantum chromodynamics QCD and the Glashow Salam Weinberg GSW electroweak theory Volume 2 of this updated edition covers the two non Abelian gauge theories of QCD and the GSW theory A distinctive feature is the extended treatment of two crucial theoretical tools spontaneous symmetry breaking and the renormalization group The underlying physics of these is elucidated by parallel discussions of examples from condensed matter systems superfluidity and superconductivity and critical phenomena This new edition includes updates to jet algorithms lattice field theory CP violation and the CKM matrix and neutrino physics New to the fifth edition Tests of the Standard Model in the Higgs and top quark sectors The naturalness problem and responses to it going beyond the Standard Model The Standard Model as an effective field theory Each volume should serve as a valuable handbook for students and researchers in advanced particle physics looking for an accessible introduction to the Standard Model of particle physics

Gauge Theories in Particle Physics, Third Edition - 2 volume set Ian J.R. Aitchison, I.J.R. Aitchison, A.J.G. Hey, Anthony J.G. Hey, 2004-01-01 This two volume set provides an accessible practical and comprehensive introduction to the three gauge theories of the standard model of particle physics quantum electrodynamics QED quantum chromodynamics QCD and the electroweak theory For

each of them the authors provide a thorough discussion of the main conceptual points a detailed exposition of many practical calculations of physical quantities and a comparison of these quantitative predictions with experimental results For this third edition much has been rewritten to reflect developments over the last decade both in the curricula of university courses and in particle physics research On the one hand substantial new material has been introduced that is intended for use in undergraduate physics courses New introductory chapters provide a precise historical account of the properties of quarks and leptons and a qualitative overview of the quantum field description of their interactions at a level appropriate to third year courses The chapter on relativistic quantum mechanics has been enlarged and is supplemented by additional sections on scattering theory and Green functions in a form appropriate to fourth year courses On the other hand since precision experiments now test the theories beyond lowest order in perturbation theory an understanding of the data requires a more sophisticated knowledge of quantum field theory including ideas of renormalization The treatment of quantum field theory has therefore been considerably extended to provide a uniquely accessible and self contained introduction to quantum field dynamics as described by Feynman graphs The level is suitable for advanced fourth year undergraduates and first year graduates These developments are all contained in the first volume which ends with a discussion of higher order corrections in QED The second volume is devoted to the non Abelian gauge theories of QCD and the electroweak theory As in the first two editions emphasis is placed throughout on developing realistic calculations from a secure physical and conceptual basis

Search for the Higgs Boson in the Vector Boson Fusion Channel at the ATLAS Detector Eric Ouellette, 2015-01-20 This Thesis describes the first measurement of and constraints on Higgs boson production in the vector boson fusion mode where the Higgs decays to b quarks the most common decay channel at the LHC The vector boson fusion mode in which the Higgs is produced simultaneously with a pair of quark jets provides an unparalleled opportunity to study the detailed properties of the Higgs including the possibility of parity and CP violation as well as its couplings and mass It thus opens up this new field of study for precision investigation as the LHC increases in energy and intensity leading the way to this new and exciting arena of precision Higgs research

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introduction to quantum field theory leading in easy stages to covariant perturbation theory and Feynman graphs thereby establishing a firm foundation for the formal and conceptual framework upon which the subsequent development of the three quantum gauge field theories of the Standard Model is based Detailed tree level calculations of physical processes in QED are presented followed by an elementary treatment of one loop renormalization of a model scalar field theory and then by the realistic case of QED The text includes updates on nucleon structure functions and the status of QED in particular the precision tests provided by the anomalous magnetic moments of the electron and muon The authors discuss the main conceptual points of the theory 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 Each volume should serve as a valuable handbook for students and researchers in advanced particle physics looking for an introduction to the Standard Model of particle physics

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theory the authors discuss the main conceptual points in both mathematical and physical aspects 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 This set should serve as a valuable handbook for students and researchers in advanced particle physics looking for an introduction to the Standard Model of particle physics

Gauge Theory of Elementary Particle Physics Ta-Pei Cheng, Ling-Fong Li, 1994-08-02 This is a practical introduction to the principal ideas in gauge theory and their applications to elementary particle physics It explains technique and methodology with simple exposition backed up by many illustrative examples Derivations some of well known results are presented in sufficient detail to make the text accessible to readers entering the field for the first time The book focuses on the strong interaction theory of quantum chromodynamics and the electroweak interaction theory of Glashow Weinberg and Salam as well as the grand unification theory exemplified by the simplest SU 5 model Not intended as an exhaustive survey the book nevertheless provides the general background necessary for a serious student who wishes to specialize in the field of elementary particle theory Physicists with an interest in general aspects of gauge theory will also find the book highly useful **American Journal of Physics** ,1989

Gauge Theories In Particle Physics A Practical Introduction Graduate Student Series In Physics Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Gauge Theories In Particle Physics A Practical Introduction Graduate Student Series In Physics**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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