

# Classical Theory of Gauge Fields

Valery Rubakov

Translated by Stephen S. Wilson

# Classical Theory Of Gauge Fields

**ÍU. I. Manin**



## **Classical Theory Of Gauge Fields:**

Classical Theory of Gauge Fields Valery Rubakov, 2009-02-09 Based on a highly regarded lecture course at Moscow State University this is a clear and systematic introduction to gauge field theory It is unique in providing the means to master gauge field theory prior to the advanced study of quantum mechanics Though gauge field theory is typically included in courses on quantum field theory many of its ideas and results can be understood at the classical or semi classical level Accordingly this book is organized so that its early chapters require no special knowledge of quantum mechanics Aspects of gauge field theory relying on quantum mechanics are introduced only later and in a graduated fashion making the text ideal for students studying gauge field theory and quantum mechanics simultaneously The book begins with the basic concepts on which gauge field theory is built It introduces gauge invariant Lagrangians and describes the spectra of linear perturbations including perturbations above nontrivial ground states The second part focuses on the construction and interpretation of classical solutions that exist entirely due to the nonlinearity of field equations solitons bounces instantons and sphalerons The third section considers some of the interesting effects that appear due to interactions of fermions with topological scalar and gauge fields Mathematical digressions and numerous problems are included throughout An appendix sketches the role of instantons as saddle points of Euclidean functional integral and related topics Perfectly suited as an advanced undergraduate or beginning graduate text this book is an excellent starting point for anyone seeking to understand gauge fields

*Classical Gauge Fields* Nicholas A. Wheeler, 1981     *Introduction to the Classical Theory of Particles and Fields* Boris Kosyakov, 2007-07-11 This volume is intended as a systematic introduction to gauge field theory for advanced undergraduate and graduate students in high energy physics The discussion is restricted to the classical non quantum theory in Minkowski spacetime Particular attention has been given to conceptual aspects of field theory accurate definitions of basic physical notions and thorough analysis of exact solutions to the equations of motion for interacting systems     *Classical Fields* Moshe Carmeli, 1982 This invaluable book presents gravitation and gauge fields as interrelated topics with a common physical and mathematical foundation such as gauge theory of gravitation and other fields giving emphasis to the physicist's point of view About half of the material is devoted to Einstein's general relativity theory and the rest to gauge fields that naturally blend well with gravitation including spinor formulation classification of SU 2 gauge fields and null tetrad formulation of the Yang Mills field in the presence of gravitation The text includes a useful introduction to the physical foundation of the theory of gravitation It also provides the mathematical theory of the geometry of curved space times needed to describe Einstein's general relativity theory     *Theory of Interacting Quantum Fields* Alexei L. Rebenko, 2012-07-04 This monograph is devoted to the systematic presentation of foundations of the quantum field theory Unlike numerous monographs devoted to this topic a wide range of problems covered in this book are accompanied by their sufficiently clear interpretations and applications An important significant feature of this monograph is the desire of the author to present mathematical problems of the quantum

field theory with regard to new methods of the constructive and Euclidean field theory that appeared in the last thirty years of the 20th century and are based on the rigorous mathematical apparatus of functional analysis the theory of operators and the theory of generalized functions The monograph is useful for students post graduate students and young scientists who desire to understand not only the formality of construction of the quantum field theory but also its essence and connection with the classical mechanics relativistic classical field theory quantum mechanics group theory and the theory of path integral formalism

**Gauge Fields** Nelli Pavlovna Konopleva, Viktor Nikolaevich Popov, 1981

**Quantum Theory And Symmetries, Procs Of The Second Intl Symp** Andrzej Horzela, Edward Kapuscik, 2002-06-26 This book presents the up to date status of quantum theory and the outlook for its development in the 21st century The covered topics include basic problems of quantum physics with emphasis on the foundations of quantum theory quantum computing and control quantum optics coherent states and Wigner functions as well as on methods of quantum physics based on Lie groups and algebras quantum groups and noncommutative geometry

**Classical Field Theory** Florian Scheck, 2018-03-09 Scheck s successful textbook presents a comprehensive treatment ideally suited for a one semester course The textbook describes Maxwell s equations first in their integral directly testable form then moves on to their local formulation The first two chapters cover all essential properties of Maxwell s equations including their symmetries and their covariance in a modern notation Chapter 3 is devoted to Maxwell s theory as a classical field theory and to solutions of the wave equation Chapter 4 deals with important applications of Maxwell s theory It includes topical subjects such as metamaterials with negative refraction index and solutions of Helmholtz equation in paraxial approximation relevant for the description of laser beams Chapter 5 describes non Abelian gauge theories from a classical geometric point of view in analogy to Maxwell s theory as a prototype and culminates in an application to the U 2 theory relevant for electroweak interactions The last chapter 6 gives a concise summary of semi Riemannian geometry as the framework for the classical field theory of gravitation The chapter concludes with a discussion of the Schwarzschild solution of Einstein s equations and the classical tests of general relativity The new concept of this edition presents the content divided into two tracks the fast track for master s students providing the essentials and the intensive track for all wanting to get in depth knowledge of the field Cleary labeled material and sections guide students through the preferred level of treatment Numerous problems and worked examples will provide successful access to Classical Field Theory

**Gauge Fields** L. D. Faddeev, 2018-03-05 First Published in 2018 Routledge is an imprint of Taylor Francis an Informa company

**Proceedings of the Second International Symposium on Quantum Theory and Symmetries** Andrzej Horzela, 2002 This book presents the up to date status of quantum theory and the outlook for its development in the 21st century The covered topics include basic problems of quantum physics with emphasis on the foundations of quantum theory quantum computing and control quantum optics coherent states and Wigner functions as well as on methods of quantum physics based on Lie groups and algebras quantum groups and noncommutative geometry

*Gauge Field Theory and Complex Geometry* [U]. I. Manin, 1988 From the reviews focused mainly on complex differential geometry and holomorphic bundle theory This is a powerful book written by a very distinguished contributor to the field Contemporary Physics the book provides a large amount of background for current research across a spectrum of field requires effort to read but it is worthwhile and rewarding New Zealand Math Soc Newsletter The contents are highly technical and the pace of the exposition is quite fast Manin is an outstanding mathematician and writer as well perfectly at ease in the most abstract and complex situation With such a guide the reader will be generously rewarded Physicalia This new edition includes an Appendix on developments of the last 10 years by S Merkulov

**Nuclear Science Abstracts**, 1969 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by DOE s predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available

*Classical Field Theories* Bertrand Berche, Ernesto Medina, 2025-03-18 This exceptional textbook provides extensive discussions and worked exercises to accompany a field theory course at the advanced undergraduate or beginning graduate level There are many questions that arise both philosophical and practical during a standard course in classical field theory that are addressed here in discussions between an advanced graduate student and her inquisitive undergrad friend The discussion involves explicitly working out exercises and making pertinent remarks on the results and potential of the developed formalism The book is ideal for readers who have taken or are taking the classical field theory course so that they already have a mathematical background in vector and tensor calculus and are willing to learn the basics of differential forms and exterior calculus to gain further insight into field theory formulation The text can also be used to answer what you ve always wanted to know but never dared to ask about field theory

**Quantum Field Theory** Claude Itzykson, Jean Bernard Zuber, 1980

*Gauge Fields and Strings* Polyakov, 2018-05-02 Based on his own work the author synthesizes the most promising approaches and ideals in field theory today He presents such subjects as statistical mechanics quantum field theory and their interrelation continuous global symmetry non Abelian gauge fields instantons and the quantum theory of loops and quantum strings and random surfaces This book is aimed at postgraduate students studying field theory and statistical mechanics and for research workers in continuous global theory

*Chekhoslovatskii Fizicheskii Zhurnal. Czechoslovak Journal of Physics*, 1982

*Encyclopedia of Mathematical Physics* Jean-Pierre Francoise, Gregory L. Naber, Sheung Tsun Tsou, 2006 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to

access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher's own memory banks and aid teachers in directing students to entries relevant to their course work. The Encyclopedia does contain information that has been distilled, organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain. It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused, high quality background information.

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**Quantum Field Theory and Critical Phenomena** Jean Zinn-Justin, 1993. Describes particle physics and critical phenomena in statistical mechanics in a unified framework incorporating graduate lecture notes from the 1970s and 1980s at several universities in Europe and the US. Deals with general field theory, functional integrals and functional methods, renormalization, properties of theories with symmetries and specific applications to particle physics, lattice gauge theories and asymptotic freedom in four dimensions and the role of instantons and the application of instanton calculus to the large order behavior of perturbation theory and the problem of summation of the perturbative expansion. Several chapters close with exercise solutions or hints for which are provided. No dates are noted for the previous editions. Annotation copyright by Book News Inc, Portland, OR.

**Spontaneous Symmetry Breakdown and Related Subjects** Louis Michel, J. Mozrzymas, Andrzej Pękalski, 1985.

**From Classical to Quantum Fields** Laurent Baulieu, John Iliopoulos, Roland Sénéor, 2017-02-10. Quantum Field Theory has become the universal language of most modern theoretical physics. This introductory textbook shows how this beautiful theory offers the correct mathematical framework to describe and understand the fundamental interactions of elementary particles. The book begins with a brief reminder of basic classical field theories, electrodynamics and general relativity as well as their symmetry properties and proceeds with the principles of quantisation following Feynman's path integral approach. Special care is used at every step to illustrate the correct mathematical formulation of the underlying assumptions. Gauge theories and the problems encountered in their quantisation are discussed in detail. The last chapters contain a full description of the Standard Model of particle physics and the attempts to go beyond it such as grand unified theories and supersymmetry. Written for advanced undergraduate and beginning graduate students in physics and mathematics, the book could also serve as a reference for active researchers in the field.

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