

Methods of Contemporary Gauge Theory



Yuri Makeenko

Methods Of Contemporary Gauge Theory

**Fiorenzo Bastianelli, Peter van
Nieuwenhuizen**



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Quantum Gravity Carlo Rovelli, 2004-11-15 Publisher Description **Moonshine beyond the Monster** Terry Gannon, 2023-07-27 A monograph on Moonshine a mathematical physics topic for graduate students and researchers

Path Integrals and Anomalies in Curved Space Fiorenzo Bastianelli, Peter van Nieuwenhuizen, 2006-07-20 Path integrals provide a powerful method for describing quantum phenomena This book introduces the quantum mechanics of particles that move in curved space by employing path integrals and then using them to compute anomalies in quantum field theories The authors start by deriving path integrals for particles moving in curved space and their supersymmetric generalizations They then discuss the regularization schemes essential to constructing and computing these path integrals This topic is used to introduce regularization and renormalization in quantum field theories in a wider context These methods are then applied to discuss and calculate anomalies in quantum field theory Such anomalies provide enormous constraints in the search for physical theories of elementary particles quantum gravity and string theories An advanced text for researchers and graduate students of quantum field theory and string theory the first part is also a stand alone introduction to path integrals in quantum mechanics

Gravitational N-Body Simulations Sverre J. Aarseth, Sverre Johannes Aarseth, 2003-10-23 This book discusses in detail all the relevant numerical methods for the classical N body problem It demonstrates how to develop clear and elegant algorithms for models of gravitational systems and explains the fundamental mathematical tools needed to describe the dynamics of a large number of mutually attractive particles Particular attention is given to the techniques needed to model astrophysical phenomena such as close encounters and the dynamics of black hole binaries The author reviews relevant work in the field and covers applications to the problems of planetary formation and star cluster dynamics both of Pleiades type and globular clusters Self contained and pedagogical this book is suitable for graduate students and

researchers in theoretical physics astronomy and cosmology

Gravity and Strings Tomás Ortín, 2004-03-25 One appealing feature of string theory is that it provides a theory of quantum gravity Gravity and Strings is a self contained pedagogical exposition of this theory its foundations and its basic results In Part I the foundations are traced back to the very early special relativistic field theories of gravity showing how such theories lead to general relativity Gauge theories of gravity are then discussed and used to introduce supergravity theories In Part II some of the most interesting solutions of general relativity and its generalizations are studied The final Part presents and studies string theory from the effective action point of view using the results found earlier in the book as background This 2004 book will be useful as a reference book for graduate students and researchers as well as a complementary textbook for courses on gravity supergravity and string theory

The Scalar-Tensor Theory of Gravitation Yasunori Fujii, Kei-ichi Maeda, 2003-01-02 The scalar tensor theory of gravitation is one of the most popular alternatives to Einstein's theory of gravitation This book provides a clear and concise introduction to the theoretical ideas and developments exploring scalar fields and placing them in context with a discussion of Brans Dicke theory Topics covered include the cosmological constant problem time variability of coupling constants higher dimensional space time branes and conformal transformations The authors emphasize the physical applications of the scalar tensor theory and thus provide a pedagogical overview of the subject keeping more mathematically detailed sections for the appendices This book is suitable for graduate courses in cosmology gravitation and relativity It will also provide a valuable reference for researchers

The Theory of Complex Angular Momenta V. N. Gribov, 2003-12-04 This 2003 book provides a rigorous introduction to the theory of complex angular momenta based on the methods of field theory It comprises an English translation of the series of lectures given by V N Gribov in 1969 when the physics of high energy hadron interactions was being created Besides their historical significance these lectures contain material which is highly relevant to research today The basic physical results and the approaches Gribov developed are now being rediscovered in an alternative context in the microscopic theory of hadrons provided by quantum chromodynamics The ideas and calculation techniques presented in this book are useful for analysing high energy hadron scattering phenomena deep inelastic lepton hadron scattering the physics of heavy ion collisions kinetic phenomena in phase transitions and will be instrumental in the analysis of electroweak processes at the next generation particle accelerators such as LHC and TESLA

The Large Scale Structure of Space-Time Stephen W. Hawking, George F. R. Ellis, 2023-02-16 First published in 1973 this influential work discusses Einstein's General Theory of Relativity to show how two of its predictions arise first that the ultimate fate of many massive stars is to undergo gravitational collapse to form black holes and second that there was a singularity in the past at the beginning of the universe Starting with a precise formulation of the theory including the necessary differential geometry the authors discuss the significance of space time curvature and examine the properties of a number of exact solutions of Einstein's field equations They develop the theory of the causal structure of a general space time and use it to prove a

number of theorems establishing the inevitability of singularities under certain conditions A Foreword contributed by Abhay Ashtekar and a new Preface from George Ellis help put the volume into context of the developments in the field over the past fifty years

Introduction to Classical Integrable Systems Olivier Babelon, Denis Bernard, Michel Talon, 2003-04-17 This book provides a thorough introduction to the theory of classical integrable systems discussing the various approaches to the subject and explaining their interrelations The book begins by introducing the central ideas of the theory of integrable systems based on Lax representations loop groups and Riemann surfaces These ideas are then illustrated with detailed studies of model systems The connection between isomonodromic deformation and integrability is discussed and integrable field theories are covered in detail The KP KdV and Toda hierarchies are explained using the notion of Grassmannian vertex operators and pseudo differential operators A chapter is devoted to the inverse scattering method and three complementary chapters cover the necessary mathematical tools from symplectic geometry Riemann surfaces and Lie algebras The book contains many worked examples and is suitable for use as a textbook on graduate courses It also provides a comprehensive reference for researchers already working in the field

D-Branes Clifford V. Johnson, 2006-11-02 D branes represent a key theoretical tool in the understanding of strongly coupled superstring theory and M theory They have led to many striking discoveries including the precise microphysics underlying the thermodynamic behaviour of certain black holes and remarkable holographic dualities between large N gauge theories and gravity This book provides a self contained introduction to the technology of D branes presenting the recent developments and ideas in a pedagogical manner It is suitable for use as a textbook in graduate courses on modern string theory and theoretical particle physics and will also be an indispensable reference for seasoned practitioners The introductory material is developed by first starting with the main features of string theory needed to get rapidly to grips with D branes uncovering further aspects while actually working with D branes Many advanced applications are covered with discussions of open problems which could form the basis for other avenues of research

Exact Solutions of Einstein's Field Equations Hans Stephani, Dietrich Kramer, Malcolm MacCallum, Cornelius Hoenselaers, Eduard Herlt, 2009-09-24 A paperback edition of a classic text this book gives a unique survey of the known solutions of Einstein's field equations for vacuum Einstein Maxwell pure radiation and perfect fluid sources It introduces the foundations of differential geometry and Riemannian geometry and the methods used to characterize find or construct solutions The solutions are then considered ordered by their symmetry group their algebraic structure Petrov type or other invariant properties such as special subspaces or tensor fields and embedding properties Includes all the developments in the field since the first edition and contains six completely new chapters covering topics including generation methods and their application colliding waves classification of metrics by invariants and treatments of homothetic motions This book is an important resource for graduates and researchers in relativity theoretical physics astrophysics and mathematics It can also be used as an introductory text on some mathematical aspects of general relativity

Nonequilibrium Quantum Field Theory Esteban A. Calzetta, Bei-Lok B. Hu, 2023-02-09 This 2008 book reissued as OA captures the essence of nonequilibrium quantum field theory graduate students and researchers

Extensions of $f(R)$ Gravity Tiberiu Harko, Francisco S. N. Lobo, 2018-11-08 Recent cosmological observations have posed a challenge for traditional theories of gravity what is the force driving the accelerated expansion of the universe What if dark energy or dark matter do not exist and what we observe is a modification of the gravitational interaction that dominates the universe at large scales Various extensions to Einstein's General Theory of Relativity have been proposed and this book presents a detailed theoretical and phenomenological analysis of several leading modified theories of gravity Theories with generalised curvature-matter couplings are first explored followed by hybrid metric-Palatini gravity This timely book first discusses key motivations behind the development of these modified gravitational theories before presenting a detailed overview of their subsequent development mathematical structure and cosmological and astrophysical implications Covering recent developments and with an emphasis on astrophysical and cosmological applications this is the perfect text for graduate students and researchers

Quantized Detector Networks George Jaroszkiewicz, 2023-07-27 Explores how the contextual nature of empirical truth and the laws of observation affect our understanding of quantum physics

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