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Kishore B. Marathe, Giovanni Martucci, 1992 Theoretical physicists tend to discuss their theories in the language of mathematics However the adequate mathematical formulation may not yet be available when the physical law is first discovered Mathematical physicists trying to develop the relevant mathematics for these theories may obtain new insights into old mathematical structures or may even disclose entirely new structures Gauge Theory is such a gift from physics to mathematics This volume presents a self contained development of a differential geometric formulation of gauge theories in particular the theory of Yang Mills fields theoretical physics and pure and applied mathematics who are acquainted with the elements of the theory of differential manifolds It enables the reader to apply this theory to gauge theories and to understand the role of gauge theories in high energy physics gravitation theory and electromagnetism *Loops, Knots, Gauge Theories* Rodolfo Gambini, Jorge Pullin, 2023-02-16 This volume provides a self contained introduction to applications of loop representations in particle physics and quantum gravity in order to explore the gauge invariant quantization of Yang Mills theories and gravity First published in 1996 this title has been reissued as an Open Access publication on Cambridge Core

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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

Theory and Applications of the Poincaré Group Sibel Başkal, Young Suh Kim, Marilyn E. Noz, 2024-11-14 This book is intended mainly as a teaching tool directed toward those who desire a deeper understanding of group theory in terms of examples applicable to the physical world and or of the physical world in terms of the symmetry properties which can best be formulated in terms of group theory Both advanced students and scholars interested in the relationship between group theory and physics will find it instructive In particular those engaged in high energy physics and foundations of quantum mechanics will find this book rich in illustrative examples of relativistic quantum mechanics This new edition contains four new chapters two of which are consistent with Dirac's aim to combine the important developments in physics in the twentieth century namely quantum mechanics and special relativity Moreover these new chapters also discuss various aspects of classical and quantum optics that are now understood to be interrelated Most of the original chapters have been updated either with new material added or in some instances reinterpretation of the original The order of the chapters has been rearranged to create a more cohesive presentation The original purpose of the first edition namely to present examples to which physics students and researchers can relate has not been altered

Lie Groups, Lie Algebras, Cohomology and Some Applications in Physics Josi A. de Azcárraga, Josi M. Izquierdo, 1998-08-06 A self contained introduction to the cohomology theory of Lie groups and some of its applications in physics

Constructing Quarks Andrew Pickering, 1999-12 Widely regarded as a classic in its field *Constructing Quarks* recounts the history of the post war conceptual development of elementary particle physics Inviting a reappraisal of the status of scientific knowledge Andrew Pickering suggests that scientists are not mere passive observers and reporters of nature Rather they are social beings as well as active constructors of natural phenomena who engage in both experimental and theoretical practice A prodigious piece of scholarship that I can heartily recommend Michael Riordan *New Scientist* An admirable history Detailed and so accurate Hugh N Pendleton *Physics Today*

Affine Lie Algebras and Quantum Groups Jürgen Fuchs, 1995-03-09 This is an introduction to the theory of affine Lie Algebras to the theory of quantum groups and to the interrelationships between these two fields that are encountered in conformal field theory

Statistical Approach to Quantum Field Theory Andreas Wipf, 2021-10-25 This new expanded second edition has been totally revised and corrected The reader finds two complete new chapters One covers the exact solution of the finite temperature Schwinger model with periodic boundary conditions This simple model supports instanton solutions similarly as QCD and allows for a detailed discussion of topological sectors in gauge theories the anomaly induced

breaking of chiral symmetry and the intriguing role of fermionic zero modes The other new chapter is devoted to interacting fermions at finite fermion density and finite temperature Such low dimensional models are used to describe long energy properties of Dirac type materials in condensed matter physics The large N solutions of the Gross Neveu Nambu Jona Lasinio and Thirring models are presented in great detail where N denotes the number of fermion flavors Towards the end of the book corrections to the large N solution and simulation results of a finite number of fermion flavors are presented Further problems are added at the end of each chapter in order to guide the reader to a deeper understanding of the presented topics This book is meant for advanced students and young researchers who want to acquire the necessary tools and experience to produce research results in the statistical approach to Quantum Field Theory Noether Symmetries in Theories of Gravity

Francesco Bajardi, Salvatore Capozziello, 2022-11-24 This volume summarizes the many alternatives and extensions to Einstein's General Theory of Relativity and shows how symmetry principles can be applied to identify physically viable models The first part of the book establishes the foundations of classical field theory providing an introduction to symmetry groups and the Noether theorems A quick overview of general relativity is provided including discussion of its successes and shortcomings then several theories of gravity are presented and their main features are summarized In the second part the Noether Symmetry Approach is applied to theories of gravity to identify those which contain symmetries In the third part of the book these selected models are tested through comparison with the latest experiments and observations This constrains the free parameters in the selected models to fit the current data demonstrating a useful approach that will allow researchers to construct and constrain modified gravity models for further applications

Finite-Temperature Field Theory Joseph I. Kapusta, Charles Gale, 2023-07-27 Develops the basic formalism and theoretical techniques for relativistic quantum field theory at high temperature and density now Open Access **Gravitation, Gauge Theories and the Early Universe**

B.R. Iyer, N. Mukunda, C.V. Vishveshwara, 2012-12-06 This book evolved out of some one hundred lectures given by twenty experts at a special instructional conference sponsored by the University Grants Commission India It is pedagogical in style and self contained in several interrelated areas of physics which have become extremely important in present day theoretical research The articles begin with an introduction to general relativity and cosmology as well as particle physics and quantum field theory This is followed by reviews of the standard gauge models of high energy physics renormalization group and grand unified theories The concluding parts of the book comprise discussions in current research topics such as problems of the early universe quantum cosmology and the new directions towards a unification of gravitation with other forces In addition special concise treatments of mathematical topics of direct relevance are also included The content of the book was carefully worked out for the mutual education of students and research workers in general relativity and particle physics This ambitious programme consequently necessitated the involvement of a number of different authors However care has been taken to ensure that the material meshes into a unified cogent and readable book We hope that the book will serve

to initiate and guide a student in these different areas of investigation starting from first principles and leading to the exciting current research problems of an interdisciplinary nature in the context of the origin and structure of the universe

Moonshine beyond the Monster Terry Gannon, 2023-07-27 A monograph on Moonshine a mathematical physics topic for graduate students and researchers

Boundary Conformal Field Theory and the Worldsheet Approach to D-Branes Andreas Recknagel, Volker Schomerus, 2013-11-28 Boundary conformal field theory is concerned with a class of two dimensional quantum field theories which display a rich mathematical structure and have many applications ranging from string theory to condensed matter physics In particular the framework allows discussion of strings and branes directly at the quantum level Written by internationally renowned experts this comprehensive introduction to boundary conformal field theory reaches from theoretical foundations to recent developments with an emphasis on the algebraic treatment of string backgrounds Topics covered include basic concepts in conformal field theory with and without boundaries the mathematical description of strings and D branes and the geometry of strongly curved spacetime The book offers insights into string geometry that go beyond classical notions Describing the theory from basic concepts and providing numerous worked examples from conformal field theory and string theory this reference is of interest to graduate students and researchers in physics and mathematics

Formulations of General Relativity Kirill Krasnov, 2020-11-26 This monograph describes the different formulations of Einstein's General Theory of Relativity Unlike traditional treatments Cartan's geometry of fibre bundles and differential forms is placed at the forefront and a detailed review of the relevant differential geometry is presented Particular emphasis is given to general relativity in 4D space time in which the concepts of chirality and self duality begin to play a key role Associated chiral formulations are catalogued and shown to lead to many practical simplifications The book develops the chiral gravitational perturbation theory in which the spinor formalism plays a central role The book also presents in detail the twistor description of gravity as well as its generalisation based on geometry of 3 forms in seven dimensions Giving valuable insight into the very nature of gravity this book joins our highly prestigious Cambridge Monographs in Mathematical Physics series It will interest graduate students and researchers in the fields of theoretical physics and differential geometry

Twistor Geometry and Field Theory R. S. Ward, Raymond O'Neil Wells (Jr.), 1990 Deals with the twistor treatment of certain linear and non linear partial differential equations The description in terms of twistors involves algebraic and differential geometry and several complex variables

Adventures in Theoretical Physics Stephen L. Adler, 2006 During the period 1964-1972 Stephen L. Adler wrote seminal papers on high energy neutrino processes current algebras soft pion theorems sum rules and perturbation theory anomalies that helped lay the foundations for our current standard model of elementary particle physics These papers are reprinted here together with detailed historical commentaries describing how they evolved their relation to other work in the field and their connection to recent literature Later important work by Dr Adler on a wide range of topics in fundamental theory phenomenology and numerical methods and their related historical

background is also covered in the commentaries and reprints This book will be a valuable resource for graduate students and researchers in the fields in which Dr Adler has worked and for historians of science studying physics in the final third of the twentieth century a period in which an enduring synthesis was achieved

Modified and Quantum Gravity Christian Pfeifer, Claus Lämmerzahl, 2023-09-30 This book discusses theoretical predictions and their comparison with experiments of extended and modified classical and quantum theories of gravity The goal is to provide a readable access and broad overview over different approaches to the topic to graduate and PhD students as well as to young researchers The book presents both theoretical and experimental insights and is structured in three parts The first addresses the theoretical models beyond special and general relativity such as string theory Poincare gauge theory and teleparallelism as well as Finsler gravity In turn the second part is focused on the observational effects that these models generate accounting for tests and comparisons which can be made on all possible scales from the universe as a whole via binary systems stars black holes satellite experiments down to laboratory experiments at micrometer and smaller scales The last part of this book is dedicated to quantum systems and gravity showing tests of classical gravity with quantum systems and coupling of quantum matter and gravity

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