Renormalization and Asymptotic Expansions (Progress in Mathematical Physics)

Smirnov, V. A.

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Renormalization And Asymptotic Expansions

David Nelson,Grace H. Zhang

Renormalization And Asymptotic Expansions:

Renormalization and Asymptotic Expansions Vladimir Alexandrovich Smirnov,1991-07 **Renormalization and Asymptotic Expansions** Vladimir Alexandrovich Smirnov,1991 Renormalization Group '91 - Proceedings Of The 2nd International Conference Dmitri V Shirkov,Viacheslav B Priezzhev,1992-04-30 The papers included here deal with the many faces of renormalization group formalism as it is used in different branches of theoretical physics The subjects covered emphasize various applications to the theory of turbulence chaos quantum chaos in dynamical systems spin systems and vector models Also discussed are applications to related topics such as quantum field theory and chromodynamics high temperature superconductivity and plasma physics **Renormalization Theory** G.P Velo,A.S. Wightman,2012-12-06 The present volume collects lecture notes from the session of the International School of Mathematical Physics Ettore Majorana on Renormalization Theory that took place in Erice Sicily August 17 to August 31 1975 The School was a NATO Advanced Study Institute sponsored by the Italian Ministry of Public Education the Italian Minis try of Scientific and Technological Research and the Regional Sicilian Government Renormalization theory has by now acquired forty years of history The present volume assumes a general acquaintance with the elementary facts of the subject as they might appear in an introductory course in quantum field theory For more recent significant developments it provides a systematic intro duction as well as a detailed discussion of the existing state of knowledge In particular analytic and dimensional renorma lization normal product technique and the Bogoliubov Shirkov Epstein Glaser method are treated with applications to physically important gauge theories All the preceding deals with perturbative renormalization theory In recent years there has been an interesting development of non perturbative renormalization theory in models in space times of two and three dimensions with the use of the methods of constructive field theory Despite the simplicity of these models the results are of significance because they are exact and answer a number of questions of principle There are parts of renormalization theory which are not well understood for instance the renormalization theory of non renormalizable interactions **Renormalization** John C. Collins,2023-07-27 This book provides a coherent exposition of the techniques underlying these calculations *Field Theory, The Renormalization Group And Critical Phenomena (2nd Edition)* Daniel J Amit,1984-08-31 This volume links field theory methods and concepts from particle physics with those in critical phenomena and statistical mechanics the development starting from the latter point of view Rigor and lengthy proofs are trimmed by using the phenomenological framework of graphs power counting etc and field theoretic methods with emphasis on renormalization group techniques The book introduces quantum field theory to those already grounded in the concepts of statistical mechanics and advanced quantum theory with sufficient exercises in each chapter for use as a textbook in a one semester graduate course *Field Theory, The Renormalization Group, And Critical Phenomena: Graphs To Computers (3rd Edition)* Daniel J Amit,Victor Martin-mayor,2005-06-21 This volume links field theory methods and concepts from particle physics with those in critical

phenomena and statistical mechanics the development starting from the latter point of view Rigor and lengthy proofs are trimmed by using the phenomenological framework of graphs power counting etc and field theoretic methods with emphasis on renormalization group techniques Non perturbative methods and numerical simulations are introduced in this new edition Abundant references to research literature complement this matter of fact approach The book introduces quantum field theory to those already grounded in the concepts of statistical mechanics and advanced quantum theory with sufficient exercises in each chapter for use as a textbook in a one semester graduate course The following new chapters are included I Real Space MethodsII Finite Size ScalingIII Monte Carlo Methods Numerical Field Theory **Renormalization Group and Effective Field Theory Approaches to Many-Body Systems** Achim Schwenk,Janos Polonyi,2012-06-25 There have been many recent and important developments based on effective field theory and the renormalization group in atomic condensed matter nuclear and high energy physics These powerful and versatile methods provide novel approaches to study complex and strongly interacting many body systems in a controlled manner The six extensive lectures gathered in this volume combine selected introductory and interdisciplinary presentations focused on recent applications of effective field theory and the renormalization group to many body problems in such diverse fields as BEC DFT extreme matter Fermi liquid theory and gauge theories Primarily aimed at graduate students and junior researchers they offer an opportunity to explore fundamental physics across subfield boundaries at an early stage in their careers *Phase Transitions and Renormalization Group* Jean Zinn-Justin,2007-07-05 This work tries to provide an elementary introduction to the notions of continuum limit and universality in statistical systems with a large number of degrees of freedom The existence of a continuum limit requires the appearance of correlations at large distance a situation that is encountered in second order phase transitions near the critical temperature In this context we will emphasize the role of gaussian distributions and their relations with the mean field approximation and Landau s theory of critical phenomena We will show that quasi gaussian or mean field approximations cannot describe correctly phase transitions in three space dimensions We will assign this difficulty to the coupling of very different physical length scales even though the systems we will consider have only local that is short range interactions To analyze the unusual situation a new concept is required the renormalization group whose fixed points allow understanding the universality of physical properties at large distance beyond mean field theory In the continuum limit critical phenomena can be described by quantum field theories In this framework the renormalization group is directly related to the renormalization process that is the necessity to cancel the infinities that arise in straightforward formulations of the theory We thus discuss the renormalization group in the context of various relevant field theories This leads to proofs of universality and to efficient tools for calculating universal quantities in a perturbative framework Finally we construct a general functional renormalization group which can be used when perturbative methods are inadequate *Applied Asymptotic Expansions in Momenta and Masses* Vladimir A. Smirnov,2001-11-06 The sturgeon they sent was second grade fresh said the

barman Really what nonsense Why nonsense Second grade fresh that s what I call nonsense There s only one degree of freshness the first and it s the last M A Bulgakov The Master and Margarita The goal of this book is to describe in detail how Feynman integrals can be expanded in suitable parameters when various momenta or masses are small or large In a narrow sense this problem is connected with practical calcula tions In a situation where a given Feynman integral depends on parameters of very different scales a natural idea is to replace it by a sufficiently large number of terms of an expansion of it in ratios of small and large scales It will be explained how this problem of expansion can be systematically solved by formulating universal prescriptions that express terms of the expansion by using the original Feynman integral with its integrand expanded into a Taylor series in appropriate momenta and masses It turns out that knowledge of the structure of the asymptotic expansion at the diagrammatic level is a key point in understanding how to perform expansions at the operator level There are various examples of these ex pansions the operator product expansion the large mass expansion Heavy Quark Effective Theory Non Relativistic QCD etc Each of them serves as a realization of the factorization of contributions of different scales **The Renormalization Group and Condensed Matter Physics** David Nelson,Grace H. Zhang,2025-07-15 A graduate level textbook on renormalization group theory and applications to condensed matter physics Provided by publisher *Evaluating Feynman Integrals* Vladimir A. Smirnov,2005-02-28 The problem of evaluating Feynman integrals over loop momenta has existed from the early days of perturbative quantum field theory Although a great variety of methods for evaluating Feynman integrals has been developed over a span of more than fifty years this book is a first attempt to summarize them Evaluating Feynman Integrals characterizes the most powerful methods in particular those used for recent quite sophisticated calculations and then illustrates them with numerous examples starting from very simple ones and progressing to nontrivial examples **Holomorphic Dynamics and Renormalization** Mikhail Lyubich,Michael Yampolsky,2008 Collects papers that reflect some of the directions of research in two closely related fields Complex Dynamics and Renormalization in Dynamical Systems This title contains papers that introduces the reader to this fascinating world and a related area of transcendental dynamics It also includes open problems and computer simulations **From Perturbative to Constructive Renormalization** Vincent Rivasseau,2014-07-14 The last decade has seen striking progress in the subject of renormalization in quantum field theory The old subject of perturbative renormalization has been revived by the use of powerful methods such as multiscale decompositions precise estimates have been added to the initial theorems on finiteness of renormalized perturbation theory with new results on its large order asymptotics Furthermore constructive field theory has reached one of its major goals the mathematically rigorous construction of some renormalizable quantum field theories For these models one can in particular investigate rigorously the phenomenon of asymptotic freedom which plays a key role in our current understanding of the interaction among elementary particles However until this book there has been no pedagogical synthesis of these new developments Vincent Rivasseau who has been actively involved in them now

describes them for a wider audience There are in fact common concepts at the heart of the progress on perturbative and constructive techniques Exploiting these similarities the author uses perturbative renormalization which is the more widely known and conceptually simpler of the two cases to explain the less familiar but more mathematically meaningful constructive renormalization Originally published in 1991 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 **Renormalization** Laurie M. Brown,2012-12-06 The purpose of this section is to give you a sketch of how quantum field theory works where Feynman graphs come from and why they are so useful where the infinities come from and how we have learned to deal with them without compromising the physical principles involved I am purposely treating the problem at the level of the 1940s and 1950s so as to keep the basic ideas clear and avoid the more difficult problems and more sophisticated methods of recent years I shall relate my discussion simply to quantum electrodynamics QED since that is the most familiar case and the case that was in the forefront from the beginning though in fact I shall ignore many of the special complications that have to be dealt with when you quantize a gauge field The methods I shall be describing are applicable to all sorts of quantized fields the detailed factors are different but the structure of the logical development isjust the same Not surprisingly though the renormalization procedure breaks down if the theory in question is nonrenormalizable Whether nonrenormalizable theories are theories at all is a matter for debate in any case they hold no practical interest for physicists since they are essentially unusable Quantum electrodynamics was devised in 1927 by Dirac less than a year after the Schrodinger equation appeared and before the Dirac equa tion for the relativistic electron had been invented Dynamical Systems Generated by Linear Maps Ćemal B. Dolićanin,Anatolij B. Antonevich,2014-07-19 The book deals with dynamical systems generated by linear mappings of finite dimensional spaces and their applications These systems have a relatively simple structure from the point of view of the modern dynamical systems theory However for the dynamical systems of this sort it is possible to obtain explicit answers to specific questions being useful in applications The considered problems are natural and look rather simple but in reality in the course of investigation they confront users with plenty of subtle questions and their detailed analysis needs a substantial effort The problems arising are related to linear algebra and dynamical systems theory and therefore the book can be considered as a natural amplification refinement and supplement to linear algebra and dynamical systems theory textbooks **The Field Theoretic Renormalization Group in Critical Behavior Theory and Stochastic Dynamics** A.N. Vasil'ev,2004-04-28 This volume provides a general field theoretical picture of critical phenomena and stochastic dynamics and helps readers develop a practical skill for calculations This education on the practical skill sets this

book apart it is the first to give a full technical introduction to the field Both general ideas and hard calculations are presen

   Theoretical Frontiers in Black Holes and Cosmology Renata Kallosh,Emanuele Orazi,2016-07-16 These lecture notes are dedicated to the most recent theoretical applications of Black Hole solutions in high energy physics The main motivation of this volume is to present the latest black hole backgrounds that are relevant for gauge gravity correspondence Leading scientists in the field explain effective techniques for finding singular and cosmological solutions embedded in gauged supergravity shedding light on underlying properties and symmetries Starting from a basic level the mathematical structures underlying black holes and cosmologies are revealed helping the reader grasp the connection between theoretical approaches and physical observations with insights into possible future developments from both a theoretical and experimental point of view The topics covered in this volume are based on lectures delivered during the Theoretical Frontiers in Black Holes and Cosmology school held in Natal in June 2015   Nuclear Science Abstracts ,1976   **The Anomalous Magnetic Moment of the Muon** Friedrich Jegerlehner,2017-08-17 This research monograph covers extensively the theory of the muon anomalous magnetic moment and provides estimates of the theoretical uncertainties The muon anomalous magnetic moment is one of the most precisely measured quantities in elementary particle physics and provides one of the most stringent tests of relativistic quantum field theory as a fundamental theoretical framework It allows for an extremely precise check of the standard model of elementary particles and of its limitations This book reviews the present state of knowledge of the anomalous magnetic moment a g 2 2 of the muon Recent experiments at the Brookhaven National Laboratory now reach the unbelievable precision of 0 5 parts per million improving the accuracy of previous g 2 experiments at CERN by a factor of 14 In addition quantum electrodynamics and electroweak and hadronic effects are reviewed Since non perturbative hadronic effects play a key role for the precision test their evaluation is described in detail Perspectives for future improvements of the theoretical and experimental precision are considered The new edition features improved theoretical predictions to match upcoming experiments like the one at Fermilab Additionally the new more precise basic parameters are presented

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