

Diego Dalvit
Peter Milonni
David Roberts
Felipe da Rosa *Editors*

Casimir Physics

Casimir Physics Lecture Notes In Physics

S Ashworth



Casimir Physics Lecture Notes In Physics:

Casimir Physics Diego Dalvit, Peter Milonni, David Roberts, Felipe da Rosa, 2011-06-28 Casimir effects serve as primary examples of directly observable manifestations of the nontrivial properties of quantum fields and as such are attracting increasing interest from quantum field theorists particle physicists and cosmologists Furthermore though very weak except at short distances Casimir forces are universal in the sense that all material objects are subject to them They are thus also an increasingly important part of the physics of atom surface interactions while in nanotechnology they are being investigated not only as contributors to stiction but also as potential mechanisms for actuating micro electromechanical devices While the field of Casimir physics is expanding rapidly it has reached a level of maturity in some important respects on the experimental side where most sources of imprecision in force measurements have been identified as well as on the theoretical side where for example semi analytical and numerical methods for the computation of Casimir forces between bodies of arbitrary shape have been successfully developed This book is then a timely and comprehensive guide to the essence of Casimir and Casimir Polder physics that will have lasting value serving the dual purpose of an introduction and reference to the field While this volume is not intended to be a unified textbook but rather a collection of largely independent chapters written by prominent experts in the field the detailed and carefully written articles adopt a style that should appeal to non specialist researchers in the field as well as to a broader audience of graduate students **Classical And Quantum**

Dissipative Systems (Second Edition) Mohsen Razavy, 2017-02-27 Dissipative forces play an important role in problems of classical as well as quantum mechanics Since these forces are not among the basic forces of nature it is essential to consider whether they should be treated as phenomenological interactions used in the equations of motion or they should be derived from other conservative forces In this book we discuss both approaches in detail starting with the Stoke s law of motion in a viscous fluid and ending with a rather detailed review of the recent attempts to understand the nature of the drag forces originating from the motion of a plane or a sphere in vacuum caused by the variations in the zero point energy In the classical formulation mathematical techniques for construction of Lagrangian and Hamiltonian for the variational formulation of non conservative systems are discussed at length Various physical systems of interest including the problem of radiating electron theory of natural line width spin boson problem scattering and trapping of heavy ions and optical potential models of nuclear reactions are considered and solved **Non-Relativistic QED Theory of the van der Waals Dispersion**

Interaction Akbar Salam, 2016-09-29 This book provides details of the calculation of the interaction between two neutral polarizable atoms or molecules using molecular quantum electrodynamics QED To better understand the origin of this force it briefly outlines molecular QED theory the well known van der Waals dispersion potential first evaluated by Casimir and Polder who accounted for retardation effects It presents different calculation schemes for the evaluation of the dispersion potential and also discusses energy shifts involving electric quadrupole and octupole moments along with discriminatory

dispersion potentials Further it explores in detail non additive dispersion interaction energies between three bodies as well as the effects of higher multipole moment correction terms and provides results for specific geometries such as collinear and equilateral triangles Lastly it computes near and far zone asymptotic limits for both pair and many body potentials with the former shown to agree with less rigorous semi classical calculations

Quantum Optics and Nanophotonics Claude Fabre,Vahid Sandoghdar,Nicolas Treps,Leticia F. Cugliandolo,2017-09-15 Quantum Optics and Nanophotonics consists of the lecture notes of the Les Houches Summer School 101 held in August 2013 Some of the most eminent experts in this flourishing area of research have contributed chapters lying at the intersection of basic quantum science and advanced nanotechnology The book is part of the renowned series of tutorial books that contain the lecture notes of all the Les Houches Summer Schools since the 1950 s and cover the latest developments in physics and related fields

What's the Big Idea? Dale Albert Johnson,2017-11-09 This book consists of a series of essays on physics consciousness and religion It explores current things in these fields of study

Introduction to Quantum Graphs Gregory Berkolaiko,Peter Kuchment,2013 A quantum graph is a graph considered as a one dimensional complex and equipped with a differential operator Hamiltonian Quantum graphs arise naturally as simplified models in mathematics physics chemistry and engineering when one considers propagation of waves of various nature through a quasi one dimensional e g meso or nano scale system that looks like a thin neighborhood of a graph Works that currently would be classified as discussing quantum graphs have been appearing since at least the 1930s and since then quantum graphs techniques have been applied successfully in various areas of mathematical physics mathematics in general and its applications One can mention for instance dynamical systems theory control theory quantum chaos Anderson localization microelectronics photonic crystals physical chemistry nano sciences superconductivity theory etc Quantum graphs present many non trivial mathematical challenges which makes them dear to a mathematician s heart Work on quantum graphs has brought together tools and intuition coming from graph theory combinatorics mathematical physics PDEs and spectral theory This book provides a comprehensive introduction to the topic collecting the main notions and techniques It also contains a survey of the current state of the quantum graph research and applications

Analysis, PDEs, and Applications Zhirayr Avetisyan,Michael Ruzhansky,Armen Vagharshakyan,2025-09-19 The present volume collects extended abstracts of lectures and talks presented at the Summer School and Conference Analysis PDEs and Applications held 24 June 6 July 2024 at Yerevan State University Armenia The thematic scope of contributions includes linear and non linear partial differential equations spectral theory and microlocal analysis harmonic and functional analysis theory of functions and approximation theory and applications in mathematical physics Each talk or lecture begins with a survey of a body of mathematical work either classic or modern leading up to recent advances This is followed by an exposition of either a specific research problem or a broader area of modern mathematical research presented by an expert in the field The volume will be of interest to not only students and

young researchers but also experts looking for a crash course in the main concepts and ideas in one of the many advanced mathematical topics discussed The New Physics Gordon Fraser, 2006-02-13 Underpinning all the other branches of science physics affects the way we live our lives and ultimately how life itself functions Recent scientific advances have led to dramatic reassessment of our understanding of the world around us and made a significant impact on our lifestyle In this book leading international experts including Nobel prize winners explore the frontiers of modern physics from the particles inside an atom to the stars that make up a galaxy from nano engineering and brain research to high speed data networks Revealing how physics plays a vital role in what we see around us this book will fascinate scientists of all disciplines and anyone wanting to know more about the world of physics today **Ten Physical Applications of Spectral Zeta**

Functions Emilio Elizalde, 2012-05-31 Zeta function regularization is a powerful method in perturbation theory and this book is a comprehensive guide for the student of this subject Everything is explained in detail in particular the mathematical difficulties and tricky points and several applications are given to show how the procedure works in practice for example in the Casimir effect gravity and string theory high temperature phase transition topological symmetry breaking and non commutative spacetime The formulae some of which are new can be directly applied in creating physically meaningful accurate numerical calculations The book acts both as a basic introduction and a collection of exercises for those who want to apply this regularization procedure in practice Thoroughly revised updated and expanded this new edition includes novel explicit formulas on the general quadratic the Chowla Selberg series case an interplay with the Hadamard calculus and also features a fresh chapter on recent cosmological applications including the calculation of the vacuum energy fluctuations at large scale in braneworld and other models *Nanotube Superfiber Materials* Mark Schulz, Vesselin Shanov, Zhangzhang Yin, Marc Cahay, 2019-03-12 Nanotube Superfiber Materials Science Manufacturing Commercialization Second Edition helps engineers and entrepreneurs understand the science behind the unique properties of nanotube fiber materials how to efficiency and safely produce them and how to transition them into commercial products Each chapter gives an account of the basic science manufacturing properties and commercial potential of a specific nanotube material form and its application New discoveries and technologies are explained along with experiences in handing off the improved materials to industry This book spans nano science nano manufacturing and the commercialization of nanotube superfiber materials As such it opens up the vast commercial potential of nanotube superfiber materials Applications for nanotube superfiber materials cut across most of the fields of engineering including spacecraft automobiles drones hyperloop tracks water and air filters infrastructure wind energy composites and medicine where nanotube materials enable development of tiny machines that can work inside our bodies to diagnose and treat disease Provides up to date information on the applications of nanotube fiber materials Explores both the manufacturing and commercialization of nanotube superfibers Sets out the processes for producing macro scale materials from carbon nanotubes Describes the unique properties of these materials **Advances in**

Near-Field Optics Reuven Gordon, 2023-09-15 This book brings together tutorial style expository chapters on both foundational material and current research areas in near field optics The starting point for the book was the Summer School at the 16th International Conference on Near Field Optics Nanophotonics and Related Techniques 2022 with each Summer School short course represented by a chapter along with an additional specially selected chapter on a complementary topic Together the chapters within present a modern perspective of the area of near field optics focusing on recent theoretical approaches but also capturing the evolution of the field Each chapter is written by an internationally recognized expert and provides a tutorial on a different aspects of the theory and analytical methods for near field optics nanophotonics and plasmonics While the material will be accessible at the graduate level it will also provide a useful reference for established researchers in near field optics and scientists in nearby fields

Annual Reports in Computational Chemistry Ralph A. Wheeler, 2012-10-16 Annual Reports in Computational Chemistry provides timely and critical reviews of important topics in computational chemistry as applied to all chemical disciplines Topics covered include quantum chemistry molecular mechanics force fields chemical education and applications in academic and industrial settings Focusing on the most recent literature and advances in the field each article covers a specific topic of importance to computational chemists Annual Reports in Computational Chemistry provides timely and critical reviews of important topics in computational chemistry as applied to all chemical disciplines Topics covered include quantum chemistry molecular mechanics force fields chemical education and applications in academic and industrial settings Focusing on the most recent literature and advances in the field each article covers a specific topic of importance to computational chemists

Lie Algebras and Applications Francesco Iachello, 2014-10-13 This course based primer provides an introduction to Lie algebras and some of their applications to the spectroscopy of molecules atoms nuclei and hadrons In the first part it concisely presents the basic concepts of Lie algebras their representations and their invariants The second part includes a description of how Lie algebras are used in practice in the treatment of bosonic and fermionic systems Physical applications considered include rotations and vibrations of molecules vibron model collective modes in nuclei interacting boson model the atomic shell model the nuclear shell model and the quark model of hadrons One of the key concepts in the application of Lie algebraic methods in physics that of spectrum generating algebras and their associated dynamic symmetries is also discussed The book highlights a number of examples that help to illustrate the abstract algebraic definitions and includes a summary of many formulas of practical interest such as the eigenvalues of Casimir operators and the dimensions of the representations of all classical Lie algebras For this new edition the text has been carefully revised and expanded in particular a new chapter has been added on the deformation and contraction of Lie algebras From the reviews of the first edition Iachello has written a pedagogical and straightforward presentation of Lie algebras It is a great text to accompany a course on Lie algebras and their physical applications Marc de Montigny Mathematical Reviews Issue 2007 i This book written by one of the leading experts in the

field will certainly be of great use for students or specialists that want to refresh their knowledge on Lie algebras applied to physics An excellent reference for those interested in acquiring practical experience and leaving the embarrassing theoretical presentations aside Rutwig Campoamor Stursberg Zentralblatt MATH Vol 1156 2009

An Introduction to the Confinement Problem Jeff Greensite, 2020-08-24 This book addresses the confinement problem which concerns the behavior of non abelian gauge theories and the force which is mediated by gauge fields at large distances The word confinement in the context of hadronic physics originally referred to the fact that quarks and gluons appear to be trapped inside mesons and baryons from which they cannot escape There are other and possibly deeper meanings that can be attached to the term and these will be explored in this book Although the confinement problem is far from solved much is now known about the general features of the confining force and there are a number of very well motivated theories of confinement which are under active investigation This volume gives a both pedagogical and concise introduction and overview of the main ideas in this field their attractive features and as appropriate their shortcomings This second edition summarizes some of the developments in this area which have occurred since the first edition of this book appeared in 2011 These include new results in the caloron dyon picture of confinement in functional approaches and in studies of the Yang Mills vacuum wave functional Special attention in two new chapters is given to recent numerical investigations of the center vortex theory and to the varieties of confinement which may exist in gauge Higgs theories Reviews of the first edition This is indeed a very good book I enjoyed reading it and I learned a lot from it It is definitely a research book that provides readers with a guide to the most updated confinement models Giuseppe Nardelli Mathematical Reviews Issue 2012 d The book is beautifully produced with special emphasis on the relevance of center symmetry and lattice formulation as well as an introduction to current research on confinement Paninjukunnath Achuthan Zentralblatt MATH Vol 1217 2011

African Americans in Mathematics Nathaniel Dean, 1997 This volume contains research and expository papers by African American mathematicians on issues related to their involvement in the mathematical sciences Little is known taught or written about African American mathematicians Information is lacking on their past and present contributions and on the qualitative nature of their existence in and distribution throughout mathematics This lack of information leads to a number of questions that have to date remained unanswered This volume provides details and pointers to help answer some of these questions

Nano and Quantum Optics Ulrich Hohenester, 2019-12-18 This classroom tested textbook is a modern primer on the rapidly developing field of quantum nano optics which investigates the optical properties of nanosized materials The essentials of both classical and quantum optics are presented before embarking through a stimulating selection of further topics such as various plasmonic phenomena thermal effects open quantum systems and photon noise Didactic and thorough in style and requiring only basic knowledge of classical electrodynamics the text provides all further physics background and additional mathematical and computational tools in a self contained way Numerous end of chapter exercises allow students

to apply and test their understanding of the chapter topics and to refine their problem solving techniques

Theory and Applications of Moment Methods in Many-Fermion Systems B. J. Dalton, 2012-12-06 The first international conference on Theory and Applications of Moment Methods in Many Fermion Systems was held September 10-13 1979 at Iowa State University Manuscripts of the invited talks presented at this conference are the contents of this volume These manuscripts were prepared and delivered to the editors by the authors the responsibility for any errors in scientific content is theirs While we the editors have made every effort to keep this volume as free from typographical errors as possible we accept responsibility for such errors as do occur even those which may be mistaken for scientific error All but one of the invited talks given at the conference are reported here those authors apparently felt unable to provide the editors with manuscripts The editors who also served as the organizing committee would like to express appreciation to the sponsors of this conference Physics Department Ames Laboratory Energy and Mineral Resources Research Institute and the Graduate College all of Iowa State University the National Science Foundation and the U S Department of Energy Their generosity both in terms of funding and support made the conference possible We should also like to express our gratitude to the International Advisory Committee whose prestige lent support to the conference and whose advice in topic selection was invaluable Those members were Grenoble France R Arvieu C Bender Lawrence Livermore Laboratory J B French University of Rochester Fowler California Institute of Technology W

Euclidean Quantum Gravity on Manifolds with Boundary Giampiero Esposito, A.Yu. Kamenshchik, G. Pollifrone, 2012-12-06 This book reflects our own struggle to understand the semiclassical behaviour of quantized fields in the presence of boundaries Along many years motivated by the problems of quantum cosmology and quantum field theory we have studied in detail the one loop properties of massless spin 1/2 fields Euclidean Maxwell theory gravitino potentials and Euclidean quantum gravity Hence our book begins with a review of the physical and mathematical motivations for studying physical theories in the presence of boundaries with emphasis on electrostatics vacuum v Maxwell theory and quantum cosmology We then study the Feynman propagator in Minkowski space time and in curved space time In the latter case the corresponding Schwinger DeWitt asymptotic expansion is given The following chapters are devoted to the standard theory of the effective action and the geometric improvement due to Vilkovisky the manifestly covariant quantization of gauge fields zeta function regularization in mathematics and in quantum field theory and the problem of boundary conditions in one loop quantum theory For this purpose we study in detail Dirichlet Neumann and Robin boundary conditions for scalar fields local and non local boundary conditions for massless spin 1/2 fields mixed boundary conditions for gauge fields and gravitation This is the content of Part I Part II presents our investigations of Euclidean Maxwell theory simple super gravity and Euclidean quantum gravity

Multiscale Thermo-Dynamics Michal Pavelka, Václav Klika, Miroslav Grmela, 2018-08-06 One common feature of new emerging technologies is the fusion of the very small nano scale and the large scale engineering The classical environment provided by single scale theories as for

instance by the classical hydrodynamics is not anymore satisfactory The main challenge is to keep the important details while still be able to keep the overall picture and simplicity It is the thermodynamics that addresses this challenge Our main reason for writing this book is to explain such general viewpoint of thermodynamics and to illustrate it on a very wide range of examples Contents Levels of description Hamiltonian mechanics Irreversible evolution Reversible and irreversible evolution Multicomponent systems Contact geometry Appendix Mathematical aspects Contact Interactions in Quantum Mechanics: Theory, Mathematical Aspects and Applications Manuel Gadella, Luiz A. Manzoni, José Tadeu Lunardi, 2021-03-12

This book delves into Casimir Physics Lecture Notes In Physics. Casimir Physics Lecture Notes In Physics is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Casimir Physics Lecture Notes In Physics, encompassing both the fundamentals and more intricate discussions.

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