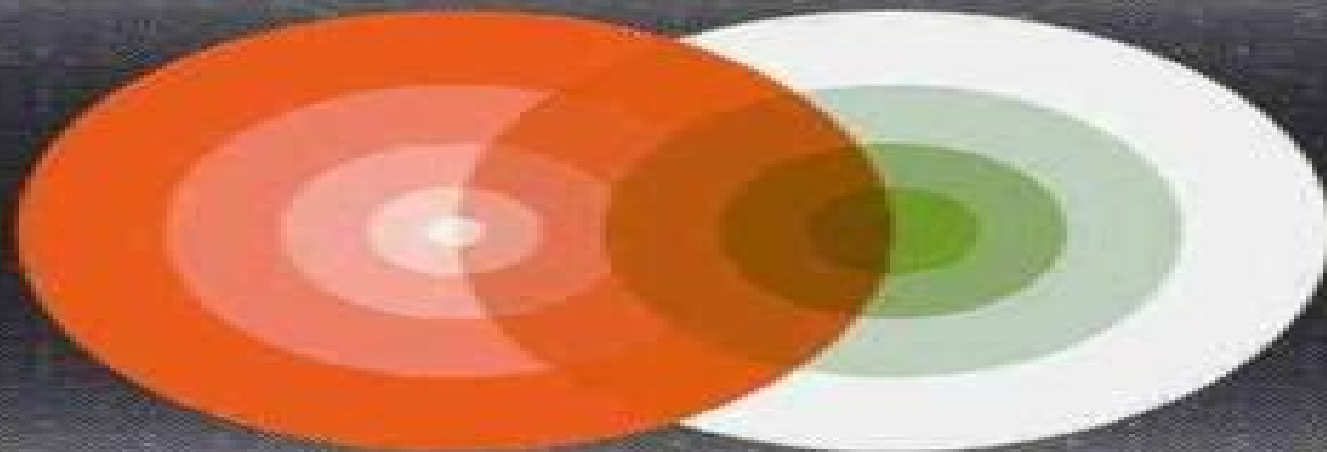


Hierarchical Methods

Undulative Electrodynamical Systems, Volume 2

by
Victor V. Kulish

Kluwer Academic Publishers



Fundamental Theories of Physics

Hierarchical Methods Vol 2 Undulative Electrodynamical Systems

Ajoy Ghatak, S. Lokanathan



Hierarchical Methods Vol 2 Undulative Electrodynamical Systems:

Hierarchical Methods V. Kulish, 2006-04-11 The book consists of two Volumes The first the preceding volume is devoted to the general nonlinear theory of the hierarchical dynamic oscillative wave systems This theory has been called the theory of hierarchical oscillations and waves Here two aspects of the proposed theory are discussed The first aspects concern the fundamental nature and the basic concepts and ideas of a new hierarchical approach to studying hierarchical dynamic systems A new hierarchical paradigm is proposed as a basis of a new point of view of such types of systems In turn a set of hierarchical principles is formulated as the fundamental basis of this paradigm Therein the self resemblance holographic principle plays a key role here An adequate mathematical description factorization of the proposed paradigm is carried out The concepts of structural and dynamic functional operators are put into the basis of this description Electrodynamics is chosen as a convenient basis for an obvious demonstration of some key points of the proposed new theory The second aspect has a purely mathematical nature It is related to the form of factorization i.e mathematical description of hierarchical types of dynamic models and discussion of the methods of their mathematical analysis A set of the hierarchical asymptotic analytical numerical methods is given as an evidence of the practical effectiveness of the proposed version of hierarchical theory

Factorization Method in Quantum Mechanics Shi-Hai Dong, 2007-04-01 This book introduces the factorization method in quantum mechanics at an advanced level with the aim of putting mathematical and physical concepts and techniques like the factorization method Lie algebras matrix elements and quantum control at the reader's disposal For this purpose the text provides a comprehensive description of the factorization method and its wide applications in quantum mechanics which complements the traditional coverage found in quantum mechanics textbooks **Quantum Mechanics**

Ajoy Ghatak, S. Lokanathan, 2004-03-31 An understanding of quantum mechanics is vital to all students of physics chemistry and electrical engineering but requires a lot of mathematical concepts the details of which are given with great clarity in this book Various concepts have been derived from first principles so it can also be used for self study The chapters on the JWKB approximation time independent perturbation theory and effects of magnetic field stand out for their clarity and easy to understand mathematics Two complete chapters on the linear harmonic oscillator provide a very detailed discussion of one of the most fundamental problems in quantum mechanics Operator algebra is used to show the ease with which one can calculate the harmonic oscillator wave functions and study the evolution of the coherent state Similarly three chapters on angular momentum give a detailed account of this important problem Perhaps the most attractive feature of the book is the excellent balance between theory and applications and the large number of applications in such diverse areas as astrophysics nuclear physics atomic and molecular spectroscopy solid state physics and quantum well structures *Applications of the Theory of Groups in Mechanics and Physics* Petre P. Teodorescu, Nicolae-A.P. Nicorovici, 2004-04-30 The notion of group is fundamental in our days not only in mathematics but also in classical mechanics electromagnetism theory of relativity

quantum mechanics theory of elementary particles etc This notion has developed during a century and this development is connected with the names of great mathematicians as E Galois A L Cauchy C F Gauss W R Hamilton C Jordan S Lie E Cartan H Weyl E Wigner and of many others In mathematics as in other sciences the simple and fertile ideas make their way with difficulty and slowly however this long history would have been of a minor interest had the notion of group remained connected only with rather restricted domains of mathematics those in which it occurred at the beginning But at present groups have invaded almost all mathematical disciplines mechanics the largest part of physics of chemistry etc We may say without exaggeration that this is the most important idea that occurred in mathematics since the invention of infinitesimal calculus indeed the notion of group expresses in a precise and operational form the vague and universal ideas of regularity and symmetry The notion of group led to a profound understanding of the character of the laws which govern natural phenomena permitting to formulate new laws correcting certain inadequate formulations and providing unitary and non contradictory formulations for the investigated phenomena

Introduction to Soliton Theory: Applications to Mechanics
 Ligia Munteanu, Stefania Donescu, 2006-07-06 This monograph is planned to provide the application of the soliton theory to solve certain practical problems selected from the fields of solid mechanics fluid mechanics and biomechanics The work is based mainly on the authors research carried out at their home institutes and on some specified significant results existing in the published literature The methodology to study a given evolution equation is to seek the waves of permanent form to test whether it possesses any symmetry properties and whether it is stable and solitonic in nature Students of physics applied mathematics and engineering are usually exposed to various branches of nonlinear mechanics especially to the soliton theory The soliton is regarded as an entity a quasi particle which conserves its character and interacts with the surroundings and other solitons as a particle It is related to a strange phenomenon which consists in the propagation of certain waves without attenuation in dissipative media This phenomenon has been known for about 200 years it was described for example by the Joule Verne s novel Les histoires de Jean Marie Cabidoulin d Hetzel but its detailed quantitative description became possible only in the last 30 years due to the exceptional development of computers The discovery of the physical soliton is attributed to John Scott Russell In 1834 Russell was observing a boat being drawn along a narrow channel by a pair of horses

Deformed Spacetime Fabio Cardone, Roberto Mignani, 2007-09-04 This volume provides a detailed discussion of the mathematical aspects and physical applications of a new geometrical structure of space time based on a generalization deformation of the usual Minkowski space as supposed to be endowed with a metric whose coefficients depend on the energy This new five dimensional scheme Deformed Relativity in Five Dimensions DR5 represents a true generalization of the usual Kaluza Klein KK formalism

Complex Spaces in Finsler, Lagrange and Hamilton Geometries Gheorghe Munteanu, 2012-11-03 From a historical point of view the theory we submit to the present study has its origins in the famous dissertation of P Finsler from 1918 Fi In a the classical notion also conventional classification Finsler geometry has besides a

number of generalizations which use the same work technique and which can be considered self geometries Lagrange and Hamilton spaces Finsler geometry had a period of incubation long enough so that few mathematicians E Cartan L Berwald S S Chern H Rund had the patience to penetrate into a universe of tensors which made them compare it to a jungle To aU of us who study nowadays Finsler geometry it is obvious that the qualitative leap was made in the 1970 s by the crystallization of the nonlinear connection notion a notion which is almost as old as Finsler space SZ4 and by work skills into its adapted frame fields The results obtained by M Matsumoto collected later in 1986 in a monograph Ma3 aroused interest not only in Japan but also in other countries such as Romania Hungary Canada and the USA where schools of Finsler geometry are founded and are presently widely recognized

Cosmological Pattern of Microphysics in the Inflationary Universe Maxim Y. Khlopov, Sergei G. Rubin, 2013-03-20 Modern cosmology is a quickly developing field of research New technical devices and tools supply the community with new experimental data measured with high accuracy The self consistent explanation of these data needs theoretical models that are based on hypothetical predictions of particle theory In their turn such predictions imply cosmology for their probe Specific studies of the cosmological consequences of particle theory linking them to their observable signatures are actual This boiling kettle of theoretical research and experimental efforts produces ideas that will be preserved for following generations The aim of this book is to acquaint the reader with some of these ideas finding nontrivial ways to probe the physical basis of modern cosmology An extensive review of the newest ideas in modern cosmology e.g. related with the development of the M brane theory lies beyond the scope of our book which is aimed at providing a firmly established system of probes for these ideas linking their predictions to their possible experimental test We use the framework of inflationary paradigm to reveal the phenomena that can shed light on the physical origin of the observed Universe of its matter content and large scale structure The crucial role of quantum fluctuations in creation of our Universe and in possible features reflecting cosmological impact of microphysics is discussed These features are shown to be accessible to experimental test in the near future

Uniformly Accelerating Charged Particles Stephen Lyle, 2008-07-22 This book examines the problems with the LD equation in flat spacetime and details its extension to curved spacetime It compares different equivalence principles as well as vindicates some

Reading Bohr: Physics and Philosophy Arkady Plotnitsky, 2006-11-15 Reading Bohr Physics and Philosophy offers a new perspective on Niels Bohr's interpretation of quantum mechanics as complementarity and on the relationships between physics and philosophy in Bohr's work which has had momentous significance for our understanding of quantum theory and of the nature of knowledge in general Philosophically the book reassesses Bohr's place in the Western philosophical tradition from Kant and Hegel on Physically it reconsiders the main issues at stake in the Bohr Einstein confrontation and in the ongoing debates concerning quantum physics It also devotes greater attention than in most commentaries on Bohr to the key developments and transformations of his thinking concerning complementarity Most significant among them were those that occurred first under the impact of

Bohr's exchanges with Einstein and second under the impact of developments in quantum theory itself both quantum mechanics and quantum field theory. The importance of quantum field theory for Bohr's thinking has not been adequately addressed in the literature on Bohr to the considerable detriment to our understanding of the history of quantum physics. Filling this lacuna is one of the main contributions of the book which also enables us to show why quantum field theory compels us to move beyond Bohr without however simply leaving him behind.

Relativity and the Dimensionality of the World Vesselin Petkov, 2007-10-08 All physicists would agree that one of the most fundamental problems of the 21st century physics is the dimensionality of the world. In the four dimensional world of Minkowski or Minkowski spacetime the most challenging problem is the nature of the temporal dimension. In Minkowski spacetime it is merely one of the four dimensions which means that it is entirely given like the other three spacial dimensions. If the temporal dimension were not given in its entirety and only one constantly changing moment of it existed Minkowski spacetime would be reduced to the ordinary three dimensional space. But if the physical world represented by Minkowski spacetime is indeed four dimensional with time being the fourth dimension then such a world is drastically different from its image based on our perceptions. Minkowski four dimensional world is a block Universe a frozen world in which nothing happens since all moments of time are given at once which means that physical bodies are four dimensional worldtubes containing the whole histories in time of the three dimensional bodies of our everyday experience. The implications of a real Minkowski world for physics itself and especially for our world view are enormous. The main focus of this volume is the question is spacetime nothing more than a mathematical space which describes the evolution in time of the ordinary three dimensional world or is it a mathematical model of a real four dimensional world with time entirely given as the fourth dimension. It contains fourteen invited papers which either directly address the main question of the nature of spacetime or explore issues related to it.

Precisely Predictable Dirac Observables Heinz Otto Cordes, 2007-01-10 In this book we are attempting to offer a modification of Dirac's theory of the electron we believe to be free of the usual paradoxes so as perhaps to be acceptable as a clean quantum mechanical treatment. While it seems to be a fact that the classical mechanics from Newton to Einstein's theory of gravitation offers a very rigorous concept free of contradictions and able to accurately predict motion of a mass point quantum mechanics even in its simplest cases does not seem to have this kind of clarity. Almost it seems that everyone of its fathers had his own wave equation. For the quantum mechanical 1 body problem with vanishing potentials let us focus on 3 different wave equations. I The Klein Gordon equation $\square \psi = 0$ Laplacian $\Delta \psi = 0$. This equation may be written as $\partial_\mu \partial^\mu \psi = 0$. Here it may be noted that the operator \square has a well defined positive square root as unbounded self adjoint positive operator of the Hilbert space $H^1(\mathbb{R}^4)$.

The Universe of Fluctuations B. G. Sidharth, 2006-03-30 The Universe of Fluctuations The Architecture of Spacetime and the Universe is a path breaking work which proposes solutions to the impasse and crisis facing fundamental physics and cosmology. It describes a cosmological model based on fuzzy spacetime that has correctly

predicted a dark energy driven acceleration of our expanding universe with a small cosmological constant at a time when the popular belief was quite the contrary It describes how the Universe is made up of an underpinning of Planck oscillators in a Quantum Vacuum This leads to amongst other things a characterization of gravitation as being distributional over the entire Universe thereby providing an answer to a puzzle brought to light by Weinberg years ago and since overlooked There is also a simple formula for the mass spectrum of all known elementary particles based on QCD dynamics Many other interesting ramifications and experimental tests for the future are also discussed This apart there is a brief survey of some of the existing theories The book is accessible to junior and senior researchers in High Energy Physics and Cosmology as well as the serious graduate student in Physics

Classical Electromagnetic Theory Jack Vanderlinde, 2006-01-17 In questions of science the authority of a thousand is not worth the humble reasoning of a single individual Galileo Galilei physicist and astronomer 1564-1642 This book is a second edition of Classical Electromagnetic Theory which derived from a set of lecture notes compiled over a number of years of teaching elect magnetic theory to fourth year physics and electrical engineering students These students had a previous exposure to electricity and magnetism and the material from the first four and a half chapters was presented as a review I believe that the book makes a reasonable transition between the many excellent elementary books such as Griffiths Introduction to Electrodynamics and the obviously graduate level books such as Jackson's Classical Electrodynamics or Landau and Lifshitz Electrodynamics of Continuous Media If the students have had a previous exposure to Electromagnetic theory all the material can be reasonably covered in two semesters Neophytes should probably spend a semester on the first four or five chapters as well as depending on their mathematical background the Appendices B to F For a shorter or more elementary course the material on spherical waves waveguides and waves in anisotropic media may be omitted without loss of continuity

Challenges to The Second Law of Thermodynamics Vladislav Capek, Daniel P. Sheehan, 2005-02-15 The second law of thermodynamics is considered one of the central laws of science engineering and technology For over a century it has been assumed to be inviolable by the scientific community Over the last 10-20 years however more than two dozen challenges to it have appeared in the physical literature more than during any other period in its 150 year history The number and variety of these represent a cogent threat to its absolute status This is the first book to document and critique these modern challenges Written by two leading exponents of this rapidly emerging field it covers the theoretical and experimental aspects of principal challenges In addition unresolved foundational issues concerning entropy and the second law are explored This book should be of interest to anyone whose work or research is touched by the second law

Vavilov-Cherenkov and Synchrotron Radiation G.N. Afanasiev, 2004-09-07 The theory of the Vavilov-Cherenkov radiation observed by Cherenkov in 1934 was created by Tamm-Frank and Ginsburg who associated the observed blue light with the uniform charge motion of a charge at a velocity greater than the velocity of light in the medium On the other hand Vavilov-Cherenkov's teacher attributed the observed blue light to the deceleration of electrons This has given rise to the

appearance of papers in which the radiation of a charge uniformly moving in a finite space interval was related to the Bremsstrahlung arising at the end points of the motion interval This monograph is intended for students of the third year and higher for postgraduates for professional scientists both experimentalists and theoreticians dealing with Vavilov Cherenkov and synchrotron radiation An acquaintance with the three volumes of the Landau and Lifshitz course Quantum Mechanics Classical Field Theory and Macroscopic Electrodynamics is sufficient for understanding the text **Ettore Majorana:**

Notes on Theoretical Physics Salvatore Esposito, Ettore Majorana Jr., Alwyn van der Merwe, E. Recami, 2013-03-09
HISTORICAL PRELUDE Ettore Majorana's fame solidly rests on testimonies like the following from the evocative pen of Giuseppe Cocconi At the request of Edoardo Amaldi he wrote from CERN July 18 1965 In January 1938 after having just graduated I was invited essentially by you to come to the Institute of Physics at the University in Rome for six months as a teaching assistant and once I was there I would have the good fortune of joining Fermi Bernardini who had been given a chair at Camerino a few months earlier and Ageno he too a new graduate in the research of the products of disintegration of L mesons at that time called mesotrons or yukons which are produced by cosmic rays It was actually while I was staying with Fermi in the small laboratory on the second floor absorbed in our work with Fermi working with a piece of Wilson's chamber which would help to reveal mesons at the end of their range on a lathe and me constructing a jalopy for the illumination of the chamber using the flash produced by the explosion of an aluminum ribbon short circuited on a battery that Ettore Majorana came in search of Fermi I was introduced to him and we exchanged few words A dark face And that was it

Relativity in Rotating Frames G. Rizzi, M.L. Ruggiero, 2013-03-09 Even if the subject is a long standing one this is the first monograph on this field On the one hand this book is intended to give a rather wide review on this field both in a historical and pedagogical perspective on the other hand it aims at critically re-examining and discussing the most controversial issues For instance according to some authors the celebrated Sagnac effect is a disproof of the theory of relativity applied to rotating frames according to others it is an astonishing experimental evidence of the relativistic theory In order to give the reader a deeper insight into this research field the contributing authors discuss their opinions on the main subjects in an enthralling virtual round table in this way the reader can get a direct comparison of the various viewpoints on the most controversial and interesting topics This is particularly expedient since the differences in the various approaches are often based upon subtleties that can be understood only by a direct comparison of the underlying hypotheses

Information Dynamics in Cognitive, Psychological, Social, and Anomalous Phenomena Andrei Ilyich Khrennikov, 2004-02-29 This book develops a new physical mathematical model for the functioning of the human brain based not on the modern Newton-Einstein view of physical reality but on information reality The work is devoted to the physical mathematical modeling of conscious cognitive phenomena The most important distinguishing feature of the theory presented here is a new model of mental space the so-called p -adic hierarchic tree space and the development of mental analogs of

classical and quantum mechanics Mental processes and more general information processes are handled as a kind of new physical processes In particular the procedure of information quantization and an information analog of Bohmian mechanics are developed Here mind is a singularity in the mental pilot wave Applications to neurophysiology localization of mental function and brain ablations and psychology in particular Freud s psychoanalysis are considered Audience This book will be of interest to researchers working on physical mathematical cognitive neurophysical psychological and philosophical aspects of human consciousness *Quantum Measure Theory* J. Hamhalter, 2013-03-14 This book is the first systematic treatment of measures on projection lattices of von Neumann algebras It presents significant recent results in this field One part is inspired by the Generalized Gleason Theorem on extending measures on the projection lattices of von Neumann algebras to linear functionals Applications of this principle to various problems in quantum physics are considered hidden variable problem Wigner type theorems decoherence functional etc Another part of the monograph deals with a fascinating interplay of algebraic properties of the projection lattice with the continuity of measures the analysis of Jauch Piron states independence conditions in quantum field theory etc These results have no direct analogy in the standard measure and probability theory On the theoretical physics side they are instrumental in recovering technical assumptions of the axiomatics of quantum theories only by considering algebraic properties of finitely additive measures states on quantum propositions

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