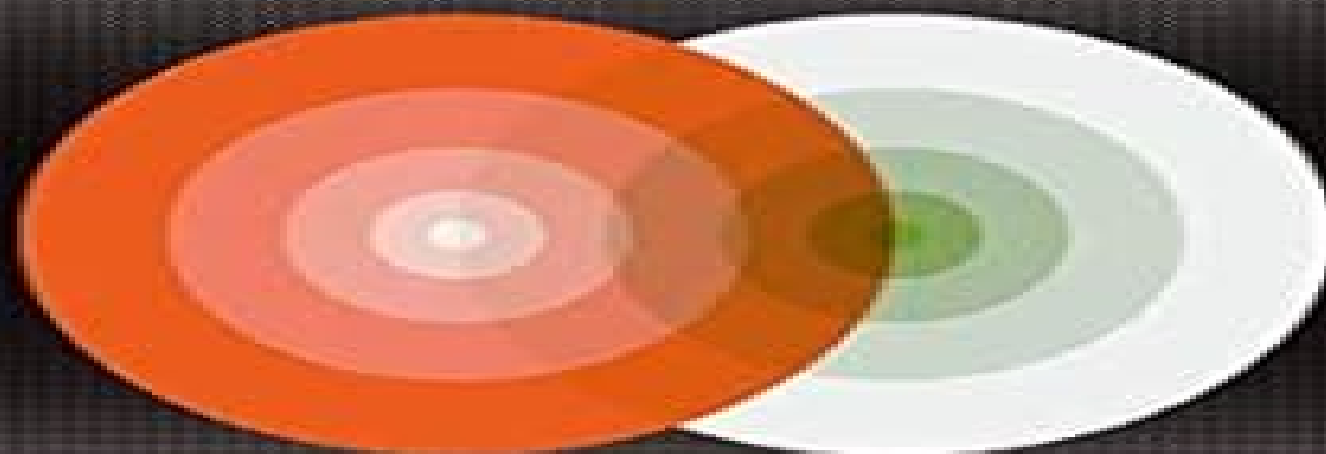


The Geometry of Higher-Order Hamilton Spaces

Applications to Hamiltonian Mechanics

by
Radu Miron

Kluwer Academic Publishers



Fundamental Theories of Physics

Geometry Of Higherorder Hamilton Spaces Applications To Hamiltonian Mechanics

R. Miron



Geometry Of Higherorder Hamilton Spaces Applications To Hamiltonian Mechanics:

The Geometry of Higher-Order Hamilton Spaces R. Miron, 2003-10-31 This book is the first to present an overview of higher order Hamilton geometry with applications to higher order Hamiltonian mechanics It is a direct continuation of the book *The Geometry of Hamilton and Lagrange Spaces* Kluwer Academic Publishers 2001 It contains the general theory of higher order Hamilton spaces H^k semisprays the canonical nonlinear connection the N linear metrical connection and their structure equations and the Riemannian almost contact metrical model of these spaces In addition the volume also describes new developments such as variational principles for higher order Hamiltonians Hamilton Jacobi equations higher order energies and law of conservation Noether symmetries Hamilton subspaces of order k and their fundamental equations The duality via Legendre transformation between Hamilton spaces of order k and Lagrange spaces of the same order is pointed out Also the geometry of Cartan spaces of order $k-1$ is investigated in detail This theory is useful in the construction of geometrical models in theoretical physics mechanics dynamical systems optimal control biology economy etc Audience Mathematicians geometers physicists and engineers The volume can be recommended as a supplementary graduate text

Handbook of Differential Geometry Franki J.E. Dillen, Leopold C.A. Verstraelen, 2005-11-29 In the series of volumes which together will constitute the Handbook of Differential Geometry we try to give a rather complete survey of the field of differential geometry The different chapters will both deal with the basic material of differential geometry and with research results old and recent All chapters are written by experts in the area and contain a large bibliography In this second volume a wide range of areas in the very broad field of differential geometry is discussed as there are Riemannian geometry Lorentzian geometry Finsler geometry symplectic geometry contact geometry complex geometry Lagrange geometry and the geometry of foliations Although this does not cover the whole of differential geometry the reader will be provided with an overview of some of its most important areas Written by experts and covering recent research Extensive bibliography Dealing with a diverse range of areas Starting from the basics

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 In 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 all 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 SZ_4 and by work skills into its adapted frame fields The results obtained by M Matsumoto collected later in 1986 in a monograph Ma_3 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

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

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

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 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 offering 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.

The Geometry of Hamilton and Lagrange Spaces R. Miron, 2001-05-31 This monograph presents for the first time the foundations of Hamilton Geometry. The concept of Hamilton Space introduced by the first author and investigated by the authors opens a new domain in differential geometry with large applications in mechanics, physics, optimal control, etc. The book consists of thirteen chapters. The first three chapters present the topics of the tangent bundle geometry, Finsler and Lagrange spaces. Chapters 4-7 are devoted to the construction of geometry of Hamilton spaces and the duality between these spaces and Lagrange spaces. The dual of a Finsler space is a Cartan space. Even this notion is completely new, its geometry has the same symmetry and beauty as that of Finsler spaces. Chapter 8 deals with symplectic transformations of cotangent bundle. The last five chapters present for the first time the geometrical theory and applications of Higher Order Hamilton spaces. In particular, the case of order two is presented in detail. Audience: mathematicians, geometers, physicists, and mechanicians. This volume can also be recommended as a supplementary graduate text.

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.

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.

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 electromagnetic 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

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

The Geometry of Ordinary Variational Equations Olga Krupkova, 2006-11-14 The book provides a comprehensive theory of ODE which come as Euler Lagrange equations from generally higher order Lagrangians Emphasis is laid on applying methods from differential geometry fibered manifolds and their jet prolongations and global analysis distributions and exterior differential systems Lagrangian and Hamiltonian dynamics Hamilton Jacobi theory etc for any Lagrangian system of any order are presented The key idea to build up these theories as related with the class of equivalent Lagrangians distinguishes this book from other texts on higher order mechanics The reader should be familiar with elements of differential geometry global analysis and the calculus of variations

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

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

Balkan Journal of Geometry and Its Applications, 2006

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

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 $\Delta \psi = 0$ Here it may be noted that the operator Δ has a well defined positive square root as unbounded self adjoint positive operator of the Hilbert space $H^1(\mathbb{R}^3)$

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