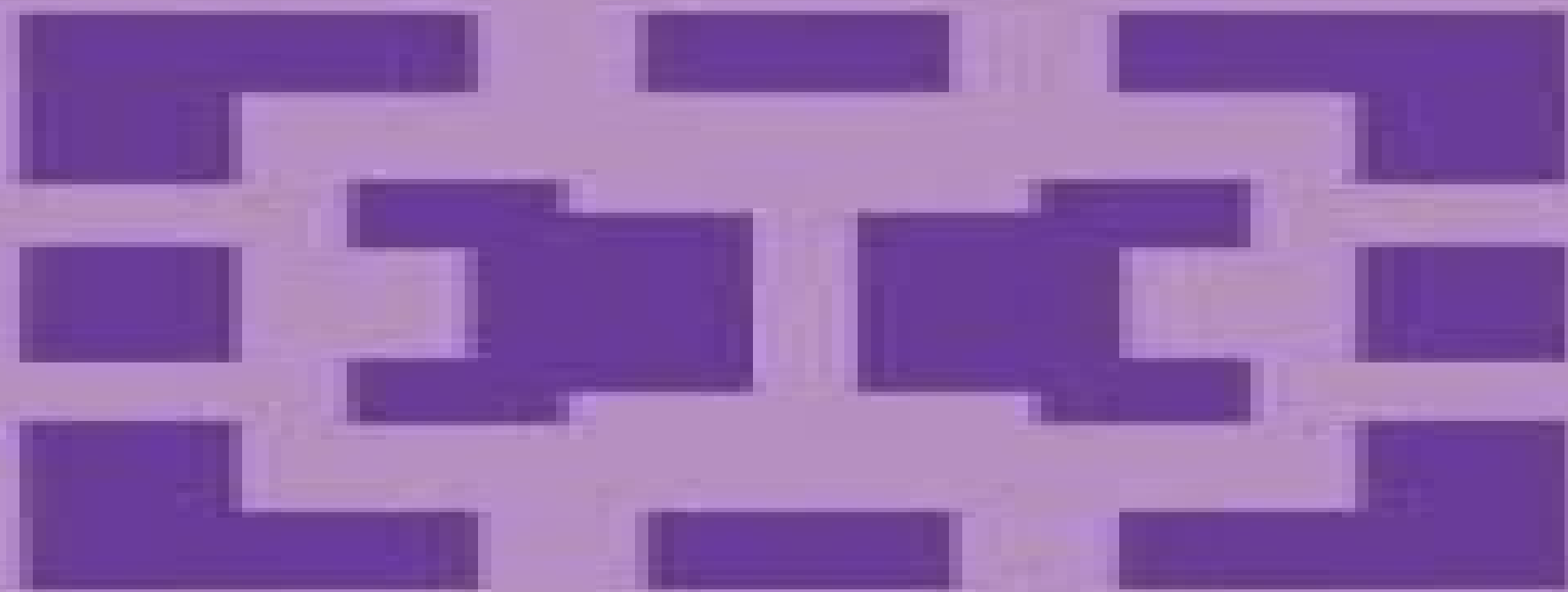


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# Hamiltonian Mechanical Systems and Geometric Quantization



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**Vladimir G. Ivancevic, Tijana T.  
Ivancevic**



## **Hamiltonian Mechanical Systems And Geometric Quantization:**

**Hamiltonian Mechanical Systems and Geometric Quantization** Mircea Puta, 2012-12-06 This volume presents various aspects of the geometry of symplectic and Poisson manifolds and applications in Hamiltonian mechanics and geometric quantization are indicated Chapter 1 presents some general facts about symplectic vector space symplectic manifolds and symplectic reduction Chapter 2 deals with the study of Hamiltonian mechanics Chapter 3 considers some standard facts concerning Lie groups and algebras which lead to the theory of momentum mappings and the Marsden Weinstein reduction Chapters 4 and 5 consider the theory and the stability of equilibrium solutions of Hamilton Poisson mechanical systems Chapters 6 and 7 are devoted to the theory of geometric quantization This leads in Chapter 8 to topics such as foliated cohomology the theory of the Dolbeault Kostant complex and their applications A discussion of the relation between geometric quantization and the Marsden Weinstein reduction is presented in Chapter 9 The final chapter considers extending the theory of geometric quantization to Poisson manifolds via the theory of symplectic groupoids Each chapter concludes with problems and solutions many of which present significant applications and in some cases major theorems For graduate students and researchers whose interests and work involve symplectic geometry and Hamiltonian mechanics

**Quantization And Coherent States Methods - Proceedings Of Xi Workshop On Geometric Methods In Physics** S Twareque Ali, Anatol Odziejewicz, I M Mladenov, 1993-10-29 The aim of the conference was to find common elements between quantization and coherent states and quantization on Poisson manifolds Topics included are coherent states geometric quantization phase space quantization deformation and products and Berry's phase

**Neuro-Fuzzy Associative Machinery for Comprehensive Brain and Cognition Modelling** Vladimir G. Ivancevic, Tijana T. Ivancevic, 2007-02-14

Neuro Fuzzy Associative Machinery for Comprehensive Brain and Cognition Modelling is a graduate level monographic textbook It represents a comprehensive introduction into both conceptual and rigorous brain and cognition modelling It is devoted to understanding prediction and control of the fundamental mechanisms of brain functioning The reader will be provided with a scientific tool enabling him to perform a competitive research in brain and cognition modelling

**Geometry of Vector Sheaves** Anastasios Mallios, 1998 This text is part of a two volume monograph which obtains fundamental notions and results of the standard differential geometry of smooth manifolds without using differential calculus Here the sheaf theoretic character is emphasized This has theoretical advantages such as greater perspective clarity and unification but also practical benefits ranging from elementary particle physics via gauge theories and theoretical cosmology differential spaces to non linear PDEs generalized functions Thus more general applications which are no longer smooth in the classical sense can be coped with The treatise might also be construed as a new systematic endeavour to confront the ever increasing notion that the world around us is far from being smooth enough

**Smooth Quasigroups and Loops** L. Sabinin, 2012-12-06 During the last twenty five years quite remarkable relations between nonassociative algebra and differential geometry have been

discovered in our work Such exotic structures of algebra as quasigroups and loops were obtained from purely geometric structures such as affinely connected spaces The notion of module was introduced as a fundamental algebraic invariant of differential geometry For any space with an affine connection loop, scalar, modular and geodular structures partial smooth algebras of a special kind were introduced and studied As it happened the natural geodular structure of an affinely connected space allows us to reconstruct this space in a unique way Moreover any smooth abstractly given geodular structure generates in a unique manner an affinely connected space with the natural geodular structure isomorphic to the initial one The above said means that any affinely connected in particular Riemannian space can be treated as a purely algebraic structure equipped with smoothness Numerous habitual geometric properties may be expressed in the language of geodular structures by means of algebraic identities etc Our treatment has led us to the purely algebraic concept of affinely connected in particular Riemannian spaces for example one can consider a discrete or even finite space with affine connection in the form of geodular structure which can be used in the old problem of discrete space time in relativity essential for the quantum space time theory

**New Developments in Differential Geometry** L. Tamássy, J.

Szenthe, 2012-12-06 Proceedings of the Colloquium on Differential Geometry Debrecen Hungary July 26-30 1994 **Partial**

**Differential Equations and Group Theory** J.F. Pommaret, 2013-03-09 Ordinary differential control theory the classical theory studies input output relations defined by systems of ordinary differential equations ODE The various concepts that can be introduced controllability observability invertibility etc must be tested on formal objects matrices vector fields etc by means of formal operations multiplication bracket rank etc but without appealing to the explicit integration search for trajectories etc of the given ODE Many partial results have been recently unified by means of new formal methods coming from differential geometry and differential algebra However certain problems invariance equivalence linearization etc naturally lead to systems of partial differential equations PDE More generally partial differential control theory studies input output relations defined by systems of PDE mechanics thermodynamics hydrodynamics plasma physics robotics etc One of the aims of this book is to extend the preceding concepts to this new situation where of course functional analysis and/or a dynamical system approach cannot be used A link will be exhibited between this domain of applied mathematics and the famous Backlund problem existing in the study of solitary waves or solitons In particular we shall show how the methods of differential elimination presented here will allow us to determine compatibility conditions on input and/or output as a better understanding of the foundations of control theory At the same time we shall unify differential geometry and differential algebra in a new framework called differential algebraic geometry **The Structure of Classical Diffeomorphism**

**Groups** Augustin Banyaga, 2013-03-14 In the 60's the work of Anderson Chernavski Kirby and Edwards showed that the group of homeomorphisms of a smooth manifold which are isotopic to the identity is a simple group This led Smale to conjecture that the group  $\text{Diff } M_0$  of  $C^r$  diffeomorphisms  $r \geq 1$  of a smooth manifold  $M$  with compact supports and isotopic to

the identity through compactly supported isotopies is a simple group as well In this monograph we give a fairly detailed proof that  $\text{Diff } M_0$  is a simple group This theorem was proved by Herman in the case  $M$  is the torus  $\mathbb{R}^n$  in 1971 as a consequence of the Nash Moser Sergeraert implicit function theorem Thurston showed in 1974 how Herman's result on  $\mathbb{R}^n$  implies the general theorem for any smooth manifold  $M$  The key idea was to view an isotopy in  $\text{Diff } M$  as a foliation on  $M \times [0, 1]$  In fact he discovered a deep connection between the local homology of the group of diffeomorphisms and the homology of the Haefliger classifying space for foliations Thurston's paper [180] contains just a brief sketch of the proof The details have been worked out by Mather [120, 124, 125] and the author [12] This circle of ideas that we call the Thurston tricks is discussed in chapter 2 It explains how in certain groups of diffeomorphisms perfectness leads to simplicity In connection with these ideas we discuss Epstein's theory [52] which we apply to contact diffeomorphisms in chapter 6

Quantum Theory, Deformation and Integrability R. Carroll, 2000-11-09 About four years ago a prominent string theorist was quoted as saying that it might be possible to understand quantum mechanics by the year 2000 Sometimes new mathematical developments make such understanding appear possible and even close but on the other hand increasing lack of experimental verification make it seem to be further distant In any event one seems to arrive at new revolutions in physics and mathematics every year This book hopes to convey some of the excitement of this period but will adopt a relatively pedestrian approach designed to illuminate the relations between quantum and classical There will be some discussion of philosophical matters such as measurement uncertainty decoherence etc but philosophy will not be emphasized generally we want to enjoy the fruits of computation based on the operator formulation of QM and quantum field theory In Chapter 1 connections of QM to deterministic behavior are exhibited in the trajectory representations of Faraggi Matone Chapter 1 also includes a review of KP theory and some preliminary remarks on coherent states density matrices etc and more on deterministic theory We develop in Chapter 4 relations between quantization and integrability based on Moyal brackets discretizations KP strings and Hirota formulas and in Chapter 2 we study the QM of embedded curves and surfaces illustrating some QM effects of geometry Chapter 3 is on quantum integrable systems quantum groups and modern deformation quantization Chapter 5 involves the Whitham equations in various roles mediating between QM and classical behavior In particular connections to Seiberg Witten theory arising in  $N=2$  supersymmetric susy Yang Mills YM theory are discussed and we would still like to understand more deeply what is going on Thus in Chapter 5 we will try to give some conceptual background for susy gauge theories renormalization etc from both a physical and mathematical point of view In Chapter 6 we continue the deformation quantization then by exhibiting material based on and related to noncommutative geometry and gauge theory

**Complexes of Differential Operators** Nikolai Tarkhanov, 2012-12-06 This book gives a systematic account of the facts concerning complexes of differential operators on differentiable manifolds The central place is occupied by the study of general complexes of differential operators between sections of vector bundles Although the global situation often contains

nothing new as compared with the local one that is complexes of partial differential operators on an open subset of  $\mathbb{R}^n$  the invariant language allows one to simplify the notation and to distinguish better the algebraic nature of some questions In the last 2 decades within the general theory of complexes of differential operators the following directions were delineated 1 the formal theory 2 the existence theory 3 the problem of global solvability 4 overdetermined boundary problems 5 the generalized Lefschetz theory of fixed points and 6 the qualitative theory of solutions of overdetermined systems All of these problems are reflected in this book to some degree It is superfluous to say that different directions sometimes whimsically intersect Considerable attention is given to connections and parallels with the theory of functions of several complex variables One of the reproaches avowed beforehand by the author consists of the shortage of examples The framework of the book has not permitted their number to be increased significantly Certain parts of the book consist of results obtained by the author in 1977 1986 They have been presented in seminars in Krasnoyarsk Moscow Ekaterinburg and Novosibirsk

**Topological Fixed Point Theory of Multivalued Mappings** Lech Górniewicz, 2013-11-11 This book is an attempt to give a systematic presentation of results and methods which concern the fixed point theory of multivalued mappings and some of its applications In selecting the material we have restricted ourselves to studying topological methods in the fixed point theory of multivalued mappings and applications mainly to differential inclusions Thus in Chapter III the approximation on the graph method in fixed point theory of multivalued mappings is presented Chapter IV is devoted to the homological methods and contains more general results e.g. the Lefschetz Fixed Point Theorem the fixed point index and the topological degree theory In Chapter V applications to some special problems in fixed point theory are formulated Then in the last chapter a direct application to differential inclusions are presented Note that Chapter I and Chapter II have an auxiliary character and only results connected with the Banach Contraction Principle see Chapter II are strictly related to topological methods in the fixed point theory In the last section of our book see Section 75 we give a bibliographical guide and also signal some further results which are not contained in our monograph The author thanks several colleagues and my wife Maria who read and commented on the manuscript These include J. Andres, A. Buraczewski, G. Gabor, A. Gorka, M. Górniewicz, S. Park and A. Wieczorek The author wishes to express his gratitude to P. Konstanty for preparing the electronic version of this monograph

**Quaternionic Structures in Mathematics and Physics** Stefano Marchiafava, Paolo Piccinni, Massimiliano Pontecorvo, 2001 During the last five years after the first meeting on Quaternionic Structures in Mathematics and Physics interest in quaternionic geometry and its applications has continued to increase Progress has been made in constructing new classes of manifolds with quaternionic structures quaternionic Kähler hyper Kähler hyper complex etc studying the differential geometry of special classes of such manifolds and their submanifolds understanding relations between the quaternionic structure and other differential geometric structures and also in physical applications of quaternionic geometry Some generalizations of classical quaternion-like structures like HKT structures and hyper Kähler manifolds with singularities

appeared naturally and were studied. Some of those results are published in this book. **A User's Guide to Algebraic Topology** C. T. J. Dodson, C.T. Dodson, P.E. Parker, Phillip E. Parker, 1997-01-31 This book arose from courses taught by the authors and is designed for both instructional and reference use during and after a first course in algebraic topology. It is a handbook for users who want to calculate but whose main interests are in applications using the current literature rather than in developing the theory. Typical areas of applications are differential geometry and theoretical physics. We start gently with numerous pictures to illustrate the fundamental ideas and constructions in homotopy theory that are needed in later chapters. We show how to calculate homotopy groups, homology groups and cohomology rings of most of the major theories, exact homotopy sequences of fibrations, some important spectral sequences and all the obstructions that we can compute from these. Our approach is to mix illustrative examples with those proofs that actually develop transferable calculational aids. We give extensive appendices with notes on background material, extensive tables of data and a thorough index. Audience: Graduate students and professionals in mathematics and physics. **Differentiable and Complex Dynamics of Several Variables** Pei-Chu Hu, Chung-Chun Yang, 2013-04-17 The development of dynamics theory began with the work of Isaac Newton. In his theory, the most basic law of classical mechanics is  $f = ma$ , which describes the motion  $n$  in  $\mathbb{R}^n$  of a point of mass  $m$  under the action of a force  $f$  by giving the acceleration  $a$ . If  $n$  the position of the point is taken to be a point  $x \in \mathbb{R}^n$  and if the force  $f$  is supposed to be a function of  $x$  only, Newton's Law is a description in terms of a second order ordinary differential equation  $J^2x = m \frac{d^2x}{dt^2} = f(x)$ . It makes sense to reduce the equations to first order by defining the velocity as an extra independent variable  $v \in \mathbb{R}^n$ . Then  $x, v \in \mathbb{R}^{2n}$ . Euler-Lagrange and others studied mechanics by means of an analytical method called analytical dynamics. Whenever the force  $f$  is represented by a gradient vector field  $f = -\nabla U$  of the potential energy  $U$  and denotes the difference of the kinetic energy and the potential energy by  $L = \frac{1}{2} m v^2 - U(x)$ , the Newton equation of motion is reduced to the Euler-Lagrange equation. If the variables of the Euler-Lagrange equation can be written as  $y$ , written as  $L(y, \dot{y})$ . Further, W.R. **Vector Bundles and Their Applications** Glenys Luke, Alexander S. Mishchenko, 2013-03-09 The book is devoted to the basic notions of vector bundles and their applications. The focus of attention is towards explaining the most important notions and geometric constructions connected with the theory of vector bundles. Theorems are not always formulated in maximal generality but rather in such a way that the geometric nature of the objects comes to the fore. Whenever possible, examples are given to illustrate the role of vector bundles. Audience: With numerous illustrations and applications to various problems in mathematics and the sciences, the book will be of interest to a range of graduate students from pure and applied mathematics. **Lightlike Submanifolds of Semi-Riemannian Manifolds and Applications** Krishan L. Duggal, Aurel Bejancu, 2013-04-17 This book is about the light like degenerate geometry of submanifolds needed to fill a gap in the general theory of submanifolds. The growing importance of light like hypersurfaces in mathematical physics, in particular their extensive use in relativity and very limited information available on

the general theory of lightlike submanifolds motivated the present authors in 1990 to do collaborative research on the subject matter of this book Based on a series of author s papers Bejancu 3 Bejancu Duggal 1 3 Dug gal 13 Duggal Bejancu 1 2 3 and several other researchers this volume was conceived and developed during the Fall 91 and Fall 94 visits of Bejancu to the University of Windsor Canada The primary difference between the lightlike submanifold and that of its non degenerate counterpart arises due to the fact that in the first case the normal vector bundle intersects with the tangent bundle of the submanifold Thus one fails to use in the usual way the theory of non degenerate submanifolds cf Chen 1 to define the induced geometric objects such as linear connection second fundamental form Gauss and Weingarten equations on the light like submanifold Some work is known on null hypersurfaces and degenerate submanifolds see an up to date list of references on pages 138 and 140 respectively Our approach in this book has the following outstanding features a It is the first ever attempt of an up to date information on null curves lightlike hypersur faces and submanifolds consistent with the theory of non degenerate submanifolds

**Computational Mind: A Complex Dynamics Perspective** Vladimir G. Ivancevic,Tijana T. Ivancevic,2007-05-16 This is a graduate level monographic textbook in the field of Computational Intelligence It presents a modern dynamical theory of the computational mind combining cognitive psychology artificial and computational intelligence and chaos theory with quantum consciousness and computation The book introduces to human and computational mind comparing and contrasting main themes of cognitive psychology artificial and computational intelligence

**Geometric Formulation of Classical and Quantum Mechanics** G. Giachetta,L. G. Magiaradze,Gennadi? Aleksandrovich Sardanashvili,2011 The geometric formulation of autonomous Hamiltonian mechanics in the terms of symplectic and Poisson manifolds is generally accepted This book provides the geometric formulation of non autonomous mechanics in a general setting of time dependent coordinate and reference frame transformations

**Complex Nonlinearity** Vladimir G. Ivancevic,Tijana T. Ivancevic,2008-05-31 Complex Nonlinearity Chaos Phase Transitions Topology Change and Path Integrals is a book about prediction control of general nonlinear and chaotic dynamics of high dimensional complex systems of various physical and non physical nature and their underpinning geometro topological change The book starts with a textbook like expose on nonlinear dynamics attractors and chaos both temporal and spatio temporal including modern techniques of chaos control Chapter 2 turns to the edge of chaos in the form of phase transitions equilibrium and non equilibrium oscillatory fractal and noise induced as well as the related field of synergetics While the natural stage for linear dynamics comprises of flat Euclidean geometry with the corresponding calculation tools from linear algebra and analysis the natural stage for nonlinear dynamics is curved Riemannian geometry with the corresponding tools from nonlinear tensor algebra and analysis The extreme nonlinearity chaos corresponds to the topology change of this curved geometrical stage usually called configuration manifold Chapter 3 elaborates on geometry and topology change in relation with complex nonlinearity and chaos Chapter 4 develops general nonlinear dynamics continuous and discrete deterministic and stochastic in the unique



form of path integrals and their action amplitude formalism This most natural framework for representing both phase transitions and topology change starts with Feynman s sum over histories to be quickly generalized into the sum over geometries and topologies The last Chapter puts all the previously developed techniques together and presents the unified form of complex nonlinearity Here we have chaos phase transitions geometrical dynamics and topology change all working together in the form of path integrals The objective of this book is to provide a serious reader with a serious scientific tool that will enable them to actually perform a competitive research in modern complex nonlinearity It includes a comprehensive bibliography on the subject and a detailed index Target readership includes all researchers and students of complex nonlinear systems in physics mathematics engineering chemistry biology psychology sociology economics medicine etc working both in industry clinics and academia      *Mathematical Reviews* ,1997

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