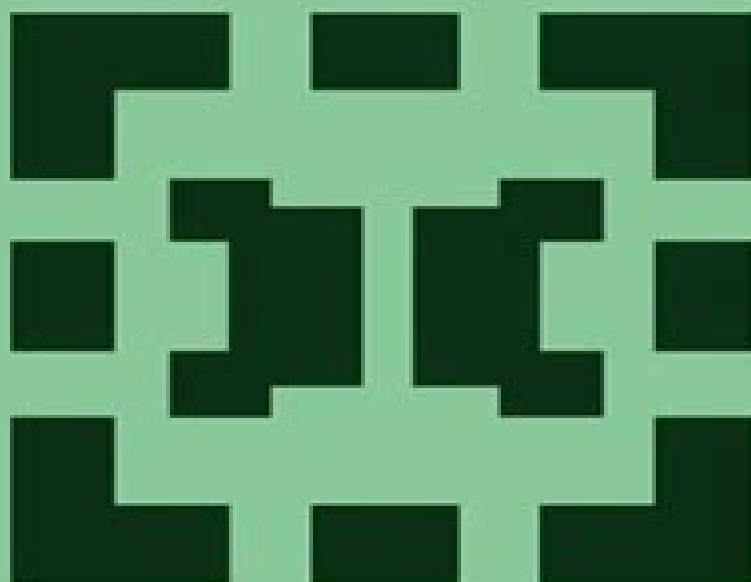


**Mathematics and Its Applications**

**Yuri E. Gliklikh**

**Ordinary and Stochastic  
Differential Geometry  
as a Tool for  
Mathematical Physics**



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# Ordinary And Stochastic Differential Geometry As A Tool For Mathematical Physics

**J Dewey**



## **Ordinary And Stochastic Differential Geometry As A Tool For Mathematical Physics:**

**Ordinary and Stochastic Differential Geometry As a Tool for Mathematical Physics** Yuri E. Gliklikh, 2014-01-15

*Ordinary and Stochastic Differential Geometry as a Tool for Mathematical Physics* Yuri E. Gliklikh, 1996-08-31 The geometrical methods in modern mathematical physics and the developments in Geometry and Global Analysis motivated by physical problems are being intensively worked out in contemporary mathematics. In particular, during the last decades a new branch of Global Analysis Stochastic Differential Geometry was formed to meet the needs of Mathematical Physics. It deals with a lot of various second order differential equations on finite and infinite dimensional manifolds arising in Physics and its validity is based on the deep inter relation between modern Differential Geometry and certain parts of the Theory of Stochastic Processes discovered not so long ago. The foundation of our topic is presented in the contemporary mathematical literature by a lot of publications devoted to certain parts of the above mentioned themes and connected with the scope of material of this book. There exist some monographs on Stochastic Differential Equations on Manifolds e.g. [9, 36, 38, 87] based on the Stratonovich approach. In [7] there is a detailed description of Itô equations on manifolds in Belopolskaya-Dalecky form. Nelson's book [94] deals with Stochastic Mechanics and mean derivatives on Riemannian Manifolds. The books and survey papers on the Lagrange approach to Hydrodynamics [2, 31, 73, 88] etc. give good presentations of the use of infinite dimensional ordinary differential geometry in ideal hydrodynamics. We should also refer here to [89, 102] to the previous books by the author [53, 64] and to many others.

**Global and Stochastic Analysis with Applications to Mathematical Physics** Yuri E. Gliklikh, 2010-12-07 Methods of global analysis and stochastic analysis are most often applied in mathematical physics as separate entities thus forming important directions in the field. However, while combination of the two subject areas is rare, it is fundamental for the consideration of a broader class of problems. This book develops methods of Global Analysis and Stochastic Analysis such that their combination allows one to have a more or less common treatment for areas of mathematical physics that traditionally are considered as divergent and requiring different methods of investigation. *Global and Stochastic Analysis with Applications to Mathematical Physics* covers branches of mathematics that are currently absent in monograph form. Through the demonstration of new topics of investigation and results both in traditional and more recent problems, this book offers a fresh perspective on ordinary and stochastic differential equations and inclusions in particular given in terms of Nelson's mean derivatives on linear spaces and manifolds. Topics covered include classical mechanics on non-linear configuration spaces, problems of statistical and quantum physics and hydrodynamics. A self-contained book that provides a large amount of preliminary material and recent results which will serve to be a useful introduction to the subject and a valuable resource for further research. It will appeal to researchers, graduate and PhD students working in global analysis, stochastic analysis and mathematical physics.

*The Geometry of Filtering* K. David Elworthy, Yves Le Jan, Xue-Mei Li, 2010-11-27 Filtering is the science of finding the law of a process given a partial observation of it. The main objects we study

here are diffusion processes These are naturally associated with second order linear differential operators which are semi elliptic and so introduce a possibly degenerate Riemannian structure on the state space In fact much of what we discuss is simply about two such operators intertwined by a smooth map the projection from the state space to the observations space and does not involve any stochastic analysis From the point of view of stochastic processes our purpose is to present and to study the underlying geometric structure which allows us to perform the filtering in a Markovian framework with the resulting conditional law being that of a Markov process which is time inhomogeneous in general This geometry is determined by the symbol of the operator on the state space which projects to a symbol on the observation space The projectible symbol induces a possibly non linear and partially defined connection which lifts the observation process to the state space and gives a decomposition of the operator on the state space and of the noise As is standard we can recover the classical filtering theory in which the observations are not usually Markovian by application of the Girsanov Maruyama Cameron Martin Theorem This structure we have is examined in relation to a number of geometrical topics

Feynman Integral and Random Dynamics in Quantum Physics Z. Haba, 2013-03-11 The Feynman integral is considered as an intuitive representation of quantum mechanics showing the complex quantum phenomena in a language comprehensible at a classical level It suggests that the quantum transition amplitude arises from classical mechanics by an average over various interfering paths The classical picture suggested by the Feynman integral may be illusory By most physicists the path integral is usually treated as a convenient formal mathematical tool for a quick derivation of useful approximations in quantum mechanics Results obtained in the formalism of Feynman integrals receive a mathematical justification by means of other usually much harder methods In such a case the rigour is achieved at the cost of losing the intuitive classical insight The aim of this book is to formulate a mathematical theory of the Feynman integral literally in the way it was expressed by Feynman at the cost of complexifying the configuration space In such a case the Feynman integral can be expressed by a probability measure The equations of quantum mechanics can be formulated as equations of random classical mechanics on a complex configuration space The opportunity of computer simulations shows an immediate advantage of such a formulation A mathematical formulation of the Feynman integral should not be considered solely as an academic question of mathematical rigour in theoretical physics

*Quantum Chaos and Mesoscopic Systems* N.E. Hurt, 1997-02-28

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**Probabilistic Methods In Fluids, Proceedings Of The Swansea 2002 Workshop** Ian M Davies, Oubay Hassan, Niels Jacob, K Morgan, Aubrey Truman, N P Weatherill, 2003-06-13 This volume contains recent research papers presented at the international workshop on Probabilistic Methods in Fluids held in Swansea. The central problems considered were turbulence and the Navier Stokes equations but as is now well known these classical problems are deeply intertwined with modern studies of stochastic partial differential equations jump processes and random dynamical systems. The volume provides a snapshot of current studies in a field where the applications range from the design of aircraft through the mathematics of finance to the study of fluids in porous media.

**Analytic-Bilinear Approach to Integrable Hierarchies** L.V. Bogdanov, 2012-12-06 The subject of this book is the hierarchies of integrable equations connected with the one component and multi component loop groups. There are many publications on this subject and it is rather well defined. Thus the author would like to explain why he has taken the risk of revisiting the subject. The Sato Grassmannian approach and other approaches standard in this context reveal deep mathematical structures in the base of the integrable hierarchies. These approaches concentrate mostly on the algebraic picture and they use a language suitable for applications to quantum field theory. Another well known approach is the dressing method developed by S V Manakov and V E Zakharov is oriented mostly to particular systems and exact classes of their solutions. There is more emphasis on analytic properties and the technique is connected with standard complex analysis. The language of the dressing method is suitable for applications to integrable nonlinear PDEs, integrable nonlinear discrete equations and as recently discovered for the applications of integrable systems to continuous and discrete geometry. The primary motivation of the author was to formalize the approach to integrable hierarchies that was developed in the context of the dressing method preserving the analytic structures characteristic for this method but omitting the peculiarities of the constructive scheme. And it was desirable to find a start.

**Many-Particle Dynamics and Kinetic Equations** C. Cercignani, U.I. Gerasimenko, D.Y. Petrina, 2012-12-06 As our title suggests there are two aspects in the subject of this book. The first is the mathematical investigation of the dynamics of infinite systems of interacting particles and the description of the time evolution of their states. The second is the rigorous derivation of kinetic equations starting from the results of the aforementioned investigation. As is well known statistical mechanics started in the last century with some papers written by Maxwell and Boltzmann. Although some of their statements seemed statistically obvious we must prove that they do not contradict what mechanics predicts. In some cases in particular for equilibrium states it turns out that mechanics easily

provides the required justification However things are not so easy if we take a step forward and consider a gas is not in equilibrium as is e g the case for air around a flying vehicle Questions of this kind have been asked since the dawn of the kinetic theory of gases especially when certain results appeared to lead to paradoxical conclusions Today this matter is rather well understood and a rigorous kinetic theory is emerging The importance of these developments stems not only from the need of providing a careful foundation of such a basic physical theory but also to exhibit a prototype of a mathematical construct central to the theory of non equilibrium phenomena of macroscopic size

**Modern Methods in Operator Theory and Harmonic Analysis** Alexey Karapetyants, Vladislav Kravchenko, Elijah Liflyand, 2019-08-28 This proceedings volume gathers selected peer reviewed papers from the Modern Methods Problems and Applications of Operator Theory and Harmonic Analysis VIII OTHA 2018 conference which was held in Rostov on Don Russia in April 2018 The book covers a diverse range of topics in advanced mathematics including harmonic analysis functional analysis operator theory function theory differential equations and fractional analysis all fields that have been intensively developed in recent decades Direct and inverse problems arising in mathematical physics are studied and new methods for solving them are presented Complex multiparameter objects that require the involvement of operators with variable parameters and functional spaces with fractional and even variable exponents make these approaches all the more relevant Given its scope the book will especially benefit researchers with an interest in new trends in harmonic analysis and operator theory though it will also appeal to graduate students seeking new and intriguing topics for further investigation

**The Theory of Anisotropic Elastic Plates** T.S. Vashakmadze, 2013-11-27 The main purpose of this work is construction of the mathematical theory of elastic plates and shells by means of which the investigation of basic boundary value problems of the spatial theory of elasticity in the case of cylindrical domains reduces to the study of two dimensional boundary value problems BVP of comparatively simple structure In this respect in sections 2-5 after the introductory material methods of reduction known in the literature as usually being based on simplifying hypotheses are studied Here in contradiction to classical methods the problems connected with construction of refined theories of anisotropic nonhomogeneous plates with variable thickness without the assumption of any physical and geometrical restrictions are investigated The comparative analysis of such reduction methods was carried out and in particular in section 5 the following fact was established the error transition occurring with substitution of a two dimensional model for the initial problem on the class of assumed solutions is restricted from below Further in section 6 Vekua's method of reduction containing regular process of study of three dimensional problem is investigated In this direction the problems connected with solvability convergence of processes and construction of effective algorithms of approximate solutions are studied

**Optimal Filtering** V.N. Fomin, 2012-12-06 This book is devoted to an investigation of some important problems of modern filtering theory concerned with systems of any nature being able to perceive store and process an information and apply it for control and regulation The above quotation is taken from the preface to 27 Despite

the fact that filtering theory is largely worked out and its major issues such as the Wiener Kolmogorov theory of optimal filtering of stationary processes and Kalman Bucy recursive filtering theory have become classical a development of the theory is far from complete A great deal of recent activity in this area is observed researchers are trying consistently to generalize famous results extend them to more broad classes of processes realize and justify more simple procedures for processing measurement data in order to obtain more efficient filtering algorithms As to nonlinear filtering it remains much as fragmentary Here much progress has been made by R L Stratonovich and his successors in the area of filtering of Markov processes In this volume an effort is made to advance in certain of these issues The monograph has evolved over many years coming of age by stages First it was an impressive job of gathering together the bulk of the important contributions to estimation theory an understanding and modernization of some of its results and methods with the intention of applying them to recursive filtering problems

**Methods of Functional Analysis and Topology**, 2003      **Nonlinear Analysis in Geometry and Topology** Themistocles M. Rassias, 2000      Dynamic Systems and Applications, 2007      *Discussiones Mathematicae*, 2006      **Topological Methods in Nonlinear Analysis**, 2000      Stochastic Equations and Differential Geometry Ya.I. Belopolskaya, Yu.L. Dalecky, 2012-12-06 Et moi si j'avais su comment en revenir One service mathematics has rendered the human race It has put common sense back Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded sense The series is divergent therefore we may be able to do something with it Eric T Bell O Heavenside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and nonlinearities abound Similarly all kinds of parts of mathematics serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics One service logic has rendered computer science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the raison d'être of this series

*The Cumulative Book Index*, 1997 A world list of books in the English language      **Russian Journal of Mathematical Physics**, 1994

## **Ordinary And Stochastic Differential Geometry As A Tool For Mathematical Physics** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Ordinary And Stochastic Differential Geometry As A Tool For Mathematical Physics**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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