

Vladimir I. Bogachev

Surface measures in infinite-dimensional spaces

2.1 Introduction

There are three main constructions of surface measures in \mathbb{R}^n with the standard Lebesgue measure. The most general one is based on the Hausdorff measure H^{n-1} of dimension $n - 1$, which is a special case of the p -dimensional Hausdorff measure H^p with $0 \leq p \leq n$. Its role of a “surface measure” is explained by the following two factors: one, typical sets of finite positive H^{n-1} -measure are surfaces of dimension $n - 1$, and two, this measure coincides with other natural candidates in cases where comparisons are possible (in particular, it coincides with the usual Lebesgue measure on hyperplanes). For reasonable sets, this surface measure can be obtained as a limit of normalized volumes of metric ε -neighborhoods of these sets. There is a much older construction that is closer to the intuitive understanding of what a surface measure must be: it is a natural measure on a regular surface $S \subset \mathbb{R}^n$, say, on the graph of a smooth function f on \mathbb{R}^{n-1} . This means that this surface measure arises as a limit of flat measures on small pieces of tangent hyperplanes approximating the given surface. Finally, one more construction deals with surfaces that are level sets of regular functions and defines the surface measure of the set $\{F = t\}$ as a certain limit of suitably normalized volumes of “neighborhoods” $\{t - \varepsilon \leq F \leq t + \varepsilon\}$. Locally, if $\nabla F \neq 0$ on the level set, this construction coincides with the previous one; moreover, all the three constructions coincide in this case. However, in general, a set of finite positive H^{n-1} -measure need not be located on a surface (neither a graph nor a level set); certainly, a level set need not be a graph even locally.

When discussing surface measures in infinite-dimensional spaces, it is customary to recall that there are no exact analogs of Lebesgue measures in infinite-dimensions. This is indeed but not a major problem: there are exact infinite-dimensional analogs of other important measures on \mathbb{R}^n , for example, Gaussian, and the local theory of surface measures associated with the standard Gaussian measure on \mathbb{R}^n does not differ much from the classical construction. Apparently, the principal difficulty in constructing surface measures in infinite dimensions is that such measures are related to some intrinsic geometry of the measure but not of the space. In other words, it seems that in many cases there is no natural canonical geometry on the space determining surface measures. For example, we shall see below that the countable power \mathbb{R}^∞ of the

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Measures On Infinite Dimensional Spaces

Rosina Ehmann



Measures On Infinite Dimensional Spaces:

Measures on Infinite Dimensional Spaces Yasuo Yamasaki, 1985 This book is based on lectures given at Yale and Kyoto Universities and provides a self contained detailed exposition of the following subjects 1 The construction of infinite dimensional measures 2 Invariance and quasi invariance of measures under translations This book furnishes an important tool for the analysis of physical systems with infinite degrees of freedom such as field theory statistical physics and field dynamics by providing material on the foundations of these problems *Measures on Infinite Dimensional Spaces* Yasuo Yamasaki, Hisaaki Yoshizawa, Shizuo Kakutani, 1982 **Measures on Infinite Dimensional Spaces** Yasuo Yamasaki, 1985

Lecture Note on Measures on Infinite Dimensional Spaces Yasuo Yamasaki, 1985 **Measure and Integration Theory on Infinite-Dimensional Spaces**, 1972-10-16 **Measure and Integration Theory on Infinite Dimensional Spaces Representation Theorem for Measures on Infinite Dimensional Spaces** Franz Peter Edward Harpain, 1968 **Handbook of the Geometry of Banach Spaces**, 2003-05-06 **Handbook of the Geometry of Banach Spaces** *Gaussian Measures in Hilbert Space* Alexander Kukush, 2020-02-26 At the nexus of probability theory geometry and statistics a Gaussian measure is constructed on a Hilbert space in two ways as a product measure and via a characteristic functional based on Minlos Sazonov theorem As such it can be utilized for obtaining results for topological vector spaces Gaussian Measures contains the proof for Ferniques theorem and its relation to exponential moments in Banach space Furthermore the fundamental Feldman Hjek dichotomy for Gaussian measures in Hilbert space is investigated Applications in statistics are also outlined In addition to chapters devoted to measure theory this book highlights problems related to Gaussian measures in Hilbert and Banach spaces Borel probability measures are also addressed with properties of characteristic functionals examined and a proof given based on the classical Banach Steinhaus theorem Gaussian Measures is suitable for graduate students plus advanced undergraduate students in mathematics and statistics It is also of interest to students in related fields from other disciplines Results are presented as lemmas theorems and corollaries while all statements are proven Each subsection ends with teaching problems and a separate chapter contains detailed solutions to all the problems With its student tested approach this book is a superb introduction to the theory of Gaussian measures on infinite dimensional spaces **Convex measures on infinite-dimensional vector spaces** Christer Borell, 1974 *Invariant and Quasiinvariant Measures in Infinite-dimensional Topological Vector Spaces* Gogi Pantsulaia, 2007 This monograph deals with certain aspects of the general theory of systems The author develops the ergodic theory which is the theory of quaslinvariant and invariant measures in such infinite dimensional vector spaces which appear as models of various physical economic genetic linguistic social etc processes The methods of ergodic theory are successful as applied to study properties of such systems A foundation for ergodic theory was stimulated by the necessity of a consideration of statistic mechanic problems and was directly connected with the works of G Birkhoff Kryloff and Bogoliuboff E Hoph and other famous mathematicians

Geometry of Sets and Measures in Euclidean Spaces Pertti Mattila, 1999-02-25 Now in paperback the main theme of this book is the study of geometric properties of general sets and measures in euclidean spaces Applications of this theory include fractal type objects such as strange attractors for dynamical systems and those fractals used as models in the sciences The author provides a firm and unified foundation and develops all the necessary main tools such as covering theorems Hausdorff measures and their relations to Riesz capacities and Fourier transforms The last third of the book is devoted to the Besicovitch Federer theory of rectifiable sets which form in a sense the largest class of subsets of euclidean space possessing many of the properties of smooth surfaces These sets have wide application including the higher dimensional calculus of variations Their relations to complex analysis and singular integrals are also studied Essentially self contained this book is suitable for graduate students and researchers in mathematics

Gaussian Measures in Finite and Infinite Dimensions Daniel W. Stroock, 2023-02-15 This text provides a concise introduction suitable for a one semester special topics course to the remarkable properties of Gaussian measures on both finite and infinite dimensional spaces It begins with a brief resumé of probabilistic results in which Fourier analysis plays an essential role and those results are then applied to derive a few basic facts about Gaussian measures on finite dimensional spaces In anticipation of the analysis of Gaussian measures on infinite dimensional spaces particular attention is given to those properties of Gaussian measures that are dimension independent and Gaussian processes are constructed The rest of the book is devoted to the study of Gaussian measures on Banach spaces The perspective adopted is the one introduced by I Segal and developed by L Gross in which the Hilbert structure underlying the measure is emphasized The contents of this book should be accessible to either undergraduate or graduate students who are interested in probability theory and have a solid background in Lebesgue integration theory and a familiarity with basic functional analysis Although the focus is on Gaussian measures the book introduces its readers to techniques and ideas that have applications in other contexts

Gaussian Measures Vladimir I. Bogachev, 2015-01-26 This book gives a systematic exposition of the modern theory of Gaussian measures It presents with complete and detailed proofs fundamental facts about finite and infinite dimensional Gaussian distributions Covered topics include linear properties convexity linear and nonlinear transformations and applications to Gaussian and diffusion processes Suitable for use as a graduate text and or a reference work this volume contains many examples exercises and an extensive bibliography It brings together many results that have not appeared previously in book form

Fokker-Planck-Kolmogorov Equations Vladimir I. Bogachev, Nicolai V. Krylov, Michael Röckner, Stanislav V. Shaposhnikov, 2022-02-10 This book gives an exposition of the principal concepts and results related to second order elliptic and parabolic equations for measures the main examples of which are Fokker Planck Kolmogorov equations for stationary and transition probabilities of diffusion processes Existence and uniqueness of solutions are studied along with existence and Sobolev regularity of their densities and upper and lower bounds for the latter The target readership includes mathematicians and physicists whose research is related to diffusion

processes as well as elliptic and parabolic equations

Chern-Simons Gauge Theory: 20 Years After Jørgen E. Andersen, Jørgen Ellegaard Andersen, 2011 In 1989 Edward Witten discovered a deep relationship between quantum field theory and knot theory and this beautiful discovery created a new field of research called Chern Simons theory This field has the remarkable feature of intertwining a large number of diverse branches of research in mathematics and physics among them low dimensional topology differential geometry quantum algebra functional and stochastic analysis quantum gravity and string theory The 20 year anniversary of Witten's discovery provided an opportunity to bring together researchers working in Chern Simons theory for a meeting and the resulting conference which took place during the summer of 2009 at the Max Planck Institute for Mathematics in Bonn included many of the leading experts in the field This volume documents the activities of the conference and presents several original research articles including another monumental paper by Witten that is sure to stimulate further activity in this and related fields This collection will provide an excellent overview of the current research directions and recent progress in Chern Simons gauge theory

Differentiable Measures and the Malliavin Calculus Vladimir Igorevich Bogachev, 2010-07-21 This book provides the reader with the principal concepts and results related to differential properties of measures on infinite dimensional spaces In the finite dimensional case such properties are described in terms of densities of measures with respect to Lebesgue measure In the infinite dimensional case new phenomena arise For the first time a detailed account is given of the theory of differentiable measures initiated by S V Fomin in the 1960s since then the method has found many various important applications Differentiable properties are described for diverse concrete classes of measures arising in applications for example Gaussian convex stable Gibbsian and for distributions of random processes Sobolev classes for measures on finite and infinite dimensional spaces are discussed in detail Finally we present the main ideas and results of the Malliavin calculus a powerful method to study smoothness properties of the distributions of nonlinear functionals on infinite dimensional spaces with measures The target readership includes mathematicians and physicists whose research is related to measures on infinite dimensional spaces distributions of random processes and differential equations in infinite dimensional spaces The book includes an extensive bibliography on the subject

Handbook of the Geometry of Banach Spaces William B. Johnson, Joram Lindenstrauss, 2001 The Handbook presents an overview of most aspects of modern Banach space theory and its applications The up to date surveys authored by leading research workers in the area are written to be accessible to a wide audience In addition to presenting the state of the art of Banach space theory the surveys discuss the relation of the subject with such areas as harmonic analysis complex analysis classical convexity probability theory operator theory combinatorics logic geometric measure theory and partial differential equations The Handbook begins with a chapter on basic concepts in Banach space theory which contains all the background needed for reading any other chapter in the Handbook Each of the twenty one articles in this volume after the basic concepts chapter is devoted to one specific direction of Banach space theory or its applications

Each article contains a motivated introduction as well as an exposition of the main results methods and open problems in its specific direction Most have an extensive bibliography Many articles contain new proofs of known results as well as expositions of proofs which are hard to locate in the literature or are only outlined in the original research papers As well as being valuable to experienced researchers in Banach space theory the Handbook should be an outstanding source for inspiration and information to graduate students and beginning researchers The Handbook will be useful for mathematicians who want to get an idea of the various developments in Banach space theory

Stochastic Processes - Mathematics and Physics II Sergio Albeverio,Philippe Blanchard,Ludwig Streit,2006-11-15 This second BiBoS volume surveys recent developments in the theory of stochastic processes Particular attention is given to the interaction between mathematics and physics Main topics include statistical mechanics stochastic mechanics differential geometry stochastic processes quantum mechanics quantum field theory probability measures central limit theorems stochastic differential equations Dirichlet forms

Analysis On Gaussian Spaces Yaozhong Hu,2016-08-30 Written by a well known expert in fractional stochastic calculus this book offers a comprehensive overview of Gaussian analysis with particular emphasis on nonlinear Gaussian functionals In addition it covers some topics that are not frequently encountered in other treatments such as Littlewood Paley Stein etc This coverage makes the book a valuable addition to the literature Many results presented in this book were hitherto available only in the research literature in the form of research papers by the author and his co authors

Mathematical Reviews Clippings Analysis of functions on the finite dimensional Euclidean space with respect to the Lebesgue measure is fundamental in mathematics The extension to infinite dimension is a great challenge due to the lack of Lebesgue measure on infinite dimensional space Instead the most popular measure used in infinite dimensional space is the Gaussian measure which has been unified under the terminology of abstract Wiener space Out of the large amount of work on this topic this book presents some fundamental results plus recent progress We shall present some results on the Gaussian space itself such as the Brunn Minkowski inequality Small ball estimates large tail estimates The majority part of this book is devoted to the analysis of nonlinear functions on the Gaussian space Derivative Sobolev spaces are introduced while the famous Poincar inequality logarithmic inequality hypercontractive inequality Meyer's inequality Littlewood Paley Stein Meyer theory are given in details This book includes some basic material that cannot be found elsewhere that the author believes should be an integral part of the subject For example the book includes some interesting and important inequalities the Littlewood Paley Stein Meyer theory and the H rmander theorem The book also includes some recent progress achieved by the author and collaborators on density convergence numerical solutions local times

Mathematical Feynman Path Integrals And Their Applications (Second Edition) Sonia Mazzucchi,2021-11-16 Feynman path integrals are ubiquitous in quantum physics even if a large part of the scientific community still considers them as a heuristic tool that lacks a sound mathematical definition Our book aims to refute this prejudice providing an extensive and self contained description of the

mathematical theory of Feynman path integration from the earlier attempts to the latest developments as well as its applications to quantum mechanics This second edition presents a detailed discussion of the general theory of complex integration on infinite dimensional spaces providing on one hand a unified view of the various existing approaches to the mathematical construction of Feynman path integrals and on the other hand a connection with the classical theory of stochastic processes Moreover new chapters containing recent applications to several dynamical systems have been added This book bridges between the realms of stochastic analysis and the theory of Feynman path integration It is accessible to both mathematicians and physicists

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