

Geometric Nonlinear Functional Analysis

Volume 1

Yoav Benyamini
Joram Lindenstrauss



Geometric Nonlinear Functional Analysis

Gilles Pisier



Geometric Nonlinear Functional Analysis:

Geometric Nonlinear Functional Analysis Yoav Benyamini, Joram Lindenstrauss, 1998 This book presents a systematic and unified study of geometric nonlinear functional analysis This area has its classical roots in the beginning of the twentieth century and is now a very active research area having close connections to geometric measure theory probability classical analysis combinatorics and Banach space theory The main theme of the book is the study of uniformly continuous and Lipschitz functions between Banach spaces e g differentiability stability approximation existence of extensions fixed points etc This study leads naturally also to the classification of Banach spaces and of their important subsets mainly spheres in the uniform and Lipschitz categories Many recent rather deep theorems and delicate examples are included with complete and detailed proofs Challenging open problems are described and explained and promising new research directions are indicated

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Geometric Nonlinear Functional Analysis Yoav Benyamini, 1927 **Nigel Kalton's Lectures in Nonlinear Functional Analysis** Adam Bowers, 2024-10-02 The main theme of the book is the nonlinear geometry of Banach spaces and it considers various significant problems in the field The present book is a commented transcript of the notes of the graduate level topics course in nonlinear functional analysis given by the late Nigel Kalton in 2008 Nonlinear geometry of Banach spaces is a very active area of research with connections to theoretical computer science noncommutative geometry as well as geometric group theory Nigel Kalton was the most influential and prolific contributor to the theory Collected here are the topics that Nigel Kalton felt were significant for those first dipping a toe into the subject of nonlinear functional analysis and presents these topics in an accessible and concise

manner As well as covering some well known topics it also includes recent results discovered by Kalton and his collaborators which have not previously appeared in textbook form A typical first year course in functional analysis will provide sufficient background for readers of this book

Geometric Properties of Banach Spaces and Nonlinear Iterations Charles Chidume, 2008-12-21 The contents of this monograph fall within the general area of nonlinear functional analysis and applications We focus on an important topic within this area geometric properties of Banach spaces and nonlinear iterations a topic of intensive research efforts especially within the past 30 years or so In this theory some geometric properties of Banach spaces play a crucial role In the first part of the monograph we expose these geometric properties most of which are well known As is well known among all infinite dimensional Banach spaces Hilbert spaces have the nicest geometric properties The availability of the inner product the fact that the proximity map or nearest point map of a real Hilbert space H onto a closed convex subset K of H is Lipschitzian with constant 1 and the following two identities $\|x - y\|^2 = \|x\|^2 - 2\langle x, y \rangle + \|y\|^2$ and $\|x - y\|^2 = \|x\|^2 - 2\langle x, y \rangle + \|y\|^2$ which hold for all $x, y \in H$ are some of the geometric properties that characterize inner product spaces and also make certain problems posed in Hilbert spaces more manageable than those in general Banach spaces However as has been rightly observed by M. Hatzewinkel many and probably most mathematical objects and models do not naturally live in Hilbert spaces Consequently to extend some of the Hilbert space techniques to more general Banach spaces analogues of the identities and have to be developed

Functional Analysis and Infinite-Dimensional Geometry Marian Fabian, Petr Habala, Petr Hajek, Vicente Montesinos Santalucia, Jan Pelant, Václav Zizler, 2013-04-17 This book introduces the basic principles of functional analysis and areas of Banach space theory that are close to nonlinear analysis and topology The text can be used in graduate courses or for independent study It includes a large number of exercises of different levels of difficulty accompanied by hints

, *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 **Martingales in Banach Spaces** Gilles

Pisier,2016-06-06 This book focuses on applications of martingales to the geometry of Banach spaces and is accessible to graduate students **Handbook of the Geometry of Banach Spaces** ,2001-08-15 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 Banachspace 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 **Limits of Graphs in Group Theory and Computer Science** Goulmira Arzhantseva,2009-03-16

A collection of research articles and survey papers this text highlights current methods and open problems in the geometric combinatorial and computational aspects of group theory New interactions with broad areas of theoretical computer science are also considered Pub 3 09 **Calculus of Variations on Thin Prestressed Films** Marta Lewicka,2023-04-17 This

monograph considers the analytical and geometrical questions emerging from the study of thin elastic films that exhibit residual stress at free equilibria It provides the comprehensive account the details and background on the most recent results in the combined research perspective on the classical themes in Differential Geometry that of isometrically embedding a shape with a given metric in an ambient space of possibly different dimension and in Calculus of Variations that of minimizing non convex energy functionals parametrized by a quantity in whose limit the functionals become degenerate Prestressed thin films are present in many contexts and applications such as growing tissues plastically strained sheets engineered swelling or shrinking gels petals and leaves of flowers or atomically thin graphene layers While the related questions about the physical basis for shape formation lie at the intersection of biology chemistry and physics fundamentally they are of the analytical and geometrical character and can be tackled using the techniques of the dimension reduction laid out in this book The text will appeal to mathematicians and graduate students working in the fields of Analysis Calculus of

Variations Partial Differential Equations and Applied Math It will also be of interest to researchers and graduate students in Engineering especially fields related to Solid Mechanics and Materials Science who would like to gain the modern mathematical insight and learn the necessary tools Fixed Point Theory and Applications Yeol Je Cho, 2002 Fixed Point Theory Applications Volume II **Sobolev Spaces on Metric Measure Spaces** Juha Heinonen, Pekka Koskela, Nageswari Shanmugalingam, Jeremy T. Tyson, 2015-02-05 Analysis on metric spaces emerged in the 1990s as an independent research field providing a unified treatment of first order analysis in diverse and potentially nonsmooth settings Based on the fundamental concept of upper gradient the notion of a Sobolev function was formulated in the setting of metric measure spaces supporting a Poincar inequality This coherent treatment from first principles is an ideal introduction to the subject for graduate students and a useful reference for experts It presents the foundations of the theory of such first order Sobolev spaces then explores geometric implications of the critical Poincar inequality and indicates numerous examples of spaces satisfying this axiom A distinguishing feature of the book is its focus on vector valued Sobolev spaces The final chapters include proofs of several landmark theorems including Cheeger's stability theorem for Poincar inequalities under Gromov Hausdorff convergence and the Keith Zhong self improvement theorem for Poincar inequalities *Methods in Banach Space Theory* Jesus M. F. Castillo, William B. Johnson, 2006-11-30 A comprehensive overview of modern Banach space theory

Banach Spaces of Continuous Functions as Dual Spaces H. G. Dales, F.K. Dashiell, Jr., A.T.-M. Lau, D. Strauss, 2016-12-13 This book gives a coherent account of the theory of Banach spaces and Banach lattices using the spaces $C_0(K)$ of continuous functions on a locally compact space K as the main example The study of $C_0(K)$ has been an important area of functional analysis for many years It gives several new constructions some involving Boolean rings of this space as well as many results on the Stonean space of Boolean rings The book also discusses when Banach spaces of continuous functions are dual spaces and when they are bidual spaces **Handbook of Metric Fixed Point Theory** W.A. Kirk, B. Sims, 2013-04-17 Metric fixed point theory encompasses the branch of fixed point theory which metric conditions on the underlying space and or on the mappings play a fundamental role In some sense the theory is a far reaching outgrowth of Banach's contraction mapping principle A natural extension of the study of contractions is the limiting case when the Lipschitz constant is allowed to equal one Such mappings are called nonexpansive Nonexpansive mappings arise in a variety of natural ways for example in the study of holomorphic mappings and hyperconvex metric spaces Because most of the spaces studied in analysis share many algebraic and topological properties as well as metric properties there is no clear line separating metric fixed point theory from the topological or set theoretic branch of the theory Also because of its metric underpinnings metric fixed point theory has provided the motivation for the study of many geometric properties of Banach spaces The contents of this Handbook reflect all of these facts The purpose of the Handbook is to provide a primary resource for anyone interested in fixed point theory with a metric flavor The goal is to provide information for those wishing to find

results that might apply to their own work and for those wishing to obtain a deeper understanding of the theory The book should be of interest to a wide range of researchers in mathematical analysis as well as to those whose primary interest is the study of fixed point theory and the underlying spaces The level of exposition is directed to a wide audience including students and established researchers

Program Development in Computational Logic Maurice Bruynooghe, Kung-Kiu

Lau, 2004-06-23 1 The tenth anniversary of the LOPSTR symposium provided the incentive for this volume LOPSTR started in 1991 as a workshop on logic program synthesis and transformation but later it broadened its scope to logic based program development in general that is program development in computational logic and hence the title of this volume The motivating force behind LOPSTR has been the belief that declarative paradigms such as logic programming are better suited to program development tasks than traditional non declarative ones such as the imperative paradigm Specification synthesis transformation or specialization analysis debugging and verification can all be given logical foundations thus providing a unifying framework for the whole development process In the past 10 years or so such a theoretical framework has indeed begun to emerge Even tools have been implemented for analysis verification and specialization However it is fair to say that so far the focus has largely been on programming in the small So the future challenge is to apply or extend these techniques to programming in the large in order to tackle software engineering in the real world Returning to this volume our aim is to present a collection of papers that reflect significant research efforts over the past 10 years These papers cover the whole development process specification synthesis analysis transformation and specialization as well as semantics and systems

100 Years of Chronogeometrodynamics: The Status of the Einstein's Theory of Gravitation in Its Centennial Year Lorenzo Iorio, Elias C. Vagenas, 2018-07-10 This book is a printed edition of the Special Issue 100 Years of Chronogeometrodynamics the Status of the Einstein's Theory of Gravitation in Its Centennial Year that was published in Universe

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