



Banach Space

Young's inequality

Let $p > 1$ and set $q = \frac{p}{p-1}$. For every $a, b \in \mathbb{C}$:

$$|ab| \leq \frac{|a|^p}{p} + \frac{|b|^q}{q}$$

Proof:

Note that $\frac{1}{p} + \frac{1}{q} = 1$. Since $(-\log \quad)$ is a convex function then for every $\alpha, \beta > 0$:

$$-\log\left(\frac{\alpha}{p} + \frac{\beta}{q}\right) \leq -\frac{1}{p}\log\alpha - \frac{1}{q}\log\beta = -\log\left(\alpha^{\frac{1}{p}}\beta^{\frac{1}{q}}\right).$$

It follows that: $\frac{\alpha}{p} + \frac{\beta}{q} \geq \alpha^{\frac{1}{p}}\beta^{\frac{1}{q}}$.

Setting $\alpha = |a|^p$ and $\beta = |b|^q$ we recover the desired result

Banach Spaces Of Vectorvalued Functions

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Banach Function Spaces of Vector Valued Functions Robert Ryan, WISCONSIN UNIV MADISON MATHEMATICS RESEARCH CENTER., 1962 The study of Banach spaces is considered the elements of which are classes of measurable functions defined on a locally compact Hausdorff space with values in a fixed Banach space The norms of the spaces studied are expressed in terms of length functions defined for positive measurable functions Certain properties of the length function and the range space of the vector valued functions are reflected in the Banach function space A representation is established of the dual spaces of these Banach function spaces in certain cases Author

Vector-Valued Functions and their Applications Chuang-Gan Hu, Chung-Chun Yang, 2013-04-17 This book is the first to be devoted to the theory of vector valued functions with one variable This theory is one of the fundamental tools employed in modern physics the spectral theory of operators approximation of analytic operators analytic mappings between vectors and vector valued functions of several variables The book contains three chapters devoted to the theory of normal functions Hp space and vector valued functions and their applications Among the topics dealt with are the properties of complex functions in a complex plane and infinite dimensional spaces and the solution of vector valued integral equations and boundary value problems by complex analysis and functional analysis which involve methods which can be applied to problems in operations research and control theory Much original

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Vector-valued function and distribution spaces on the torus Barraza Martínez, Bienvenido, González Ospino, Jonathan, Hernández Monzón, Jairo, 2019-04-15 This book contains part of the results of a research project funded by Colciencias and executed by the research group Grupo de Investigación en Matemáticas Uninorte Colombia and contains details of properties which are satisfied by certain spaces of vector value functions and distributions defined on the n dimensional torus In particular the text addresses an introductory study of the toroidal Besov spaces which appear in many applications to partial differential equations with periodic conditions and in harmonic analysis This work can be very useful for undergraduate and graduate students in Mathematics as well as for researchers interested in the topics mentioned above

Hardy Spaces of Vector-valued Functions and Its Connection with Geometry on Banach Spaces O. Blasco de la Cruz, 1986 **Isometries on Banach Spaces** Richard J. Fleming, James E. Jamison, 2002-12-23 Fundamental to the study of any mathematical structure is an understanding of its symmetries In the class of Banach spaces this leads naturally to a study of isometries the linear transformations that preserve distances In his foundational treatise Banach showed that every linear isometry on the space of continuous functions on a compact metric space must transform a continuous function x into a continuous function y satisfying $y = h \circ x \circ p$ where p is a homeomorphism and h is identically one **Isometries on Banach Spaces** Function Spaces is the first of two planned volumes that survey investigations of Banach space isometries This volume emphasizes the characterization of isometries and focuses on establishing the type of explicit canonical form given above in a variety of settings After an introductory discussion of isometries in general four chapters are devoted to describing the isometries on classical function spaces The final chapter explores isometries on Banach algebras This treatment provides a clear account of historically important results exposes the principal methods of attack and includes some results that are more recent and some that are lesser known Unique in its focus this book will prove useful for experts as well as beginners in the field and for those who simply want to acquaint themselves with this area of Banach space theory

Approximation of Vector Valued Functions, 2011-10-10 This work deals with the many variations of the Stoneileierstrass Theorem for vector valued functions and some of its applications The book is largely self contained The amount of Functional Analysis required is minimal except for Chapter 8 The book can be used by graduate students who have taken the usual first year real and complex analysis courses Vector Measures Joe Diestel, 2014-06-06 Examines the theory of measures having values in Banach spaces This book deals with countably additive vector measures finitely additive vector measures the Orlicz Pettis theorem and its relatives It also concentrates on measurable vector valued functions and the

Bochner integral *Isometries on Banach Spaces: Vector-valued function spaces. The Banach-Stone property ; The Banach-Stone property for Bochner spaces ; Orthogonal decompositions ; Matrix spaces ; Isometries of norm ideals of operators ; Minimal and maximal norms* Richard J. Fleming,2003 **Banach Spaces of Lipschitz Functions and Vector-valued Lipschitz Functions** Jerry Alan Johnson,1969 *Dirichlet Series and Holomorphic Functions in High Dimensions* Andreas Defant,Domingo García,Manuel Maestre,Pablo Sevilla-Peris,2019-08-08 Using contemporary concepts this book describes the interaction between Dirichlet series and holomorphic functions in high dimensions **Analytic Perturbation Theory for Matrices and Operators** H. Baumgärtel,1984-12-31 No detailed description available for Analytic Perturbation Theory for Matrices and Operators

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