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MATHEMATICS STUDIES

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Tensor Norms and Operator Ideals

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NORTH-HOLLAND

Tensor Norms And Operator Ideals

Léo Pomar



Tensor Norms And Operator Ideals:

Tensor Norms and Operator Ideals A. Defant, K. Floret, 1992-11-26 The three chapters of this book are entitled Basic Concepts Tensor Norms and Special Topics The first may serve as part of an introductory course in Functional Analysis since it shows the powerful use of the projective and injective tensor norms as well as the basics of the theory of operator ideals The second chapter is the main part of the book it presents the theory of tensor norms as designed by Grothendieck in the Resum and deals with the relation between tensor norms and operator ideals The last chapter deals with special questions Each section is accompanied by a series of exercises

Introduction to Tensor Products of Banach Spaces Raymond A. Ryan, 2013-06-29 This book is intended as an introduction to the theory of tensor products of Banach spaces The prerequisites for reading the book are a first course in Functional Analysis and in Measure Theory as far as the Radon Nikodym theorem The book is entirely self contained and two appendices give additional material on Banach Spaces and Measure Theory that may be unfamiliar to the beginner No knowledge of tensor products is assumed Our viewpoint is that tensor products are a natural and productive way to understand many of the themes of modern Banach space theory and that tensorial thinking yields insights into many otherwise mysterious phenomena We hope to convince the reader of the validity of this belief We begin in Chapter 1 with a treatment of the purely algebraic theory of tensor products of vector spaces We emphasize the use of the tensor product as a linearizing tool and we explain the use of tensor products in the duality theory of spaces of operators in finite dimensions The ideas developed here though simple are fundamental for the rest of the book

Operator Space Tensor Norms Javier Alejandro Chávez-Domínguez, Verónica Dimant, Daniel Galicer, 2025-09-26 This book provides a comprehensive introduction to the systematic theory of tensor products and tensor norms within the framework of operator spaces The use of tensor products has significantly advanced functional analysis and other areas of mathematics and physics and the field of operator spaces is no exception Building on the theory of tensor products in Banach spaces this work adapts the definitions and results to the operator space context This approach goes beyond a mere translation of existing results It introduces new insights techniques and hypotheses to address the many challenges of the non commutative setting revealing several notable differences to the classical theory This text is expected to be a valuable resource for researchers and advanced students in functional analysis operator theory and related fields offering new perspectives for both the mathematics and physics communities By presenting several open problems it also serves as a potential source for further research particularly for those working in operator spaces or operator algebras

Upper Bounds for Grothendieck Constants, Quantum Correlation Matrices and CCP Functions Frank Oertel, 2024-09-12 This book concentrates on the famous Grothendieck inequality and the continued search for the still unknown best possible value of the real and complex Grothendieck constant an open problem since 1953 It describes in detail the state of the art in research on this fundamental inequality including Krivine's recent contributions and sheds light on related questions in

mathematics physics and computer science particularly with respect to the foundations of quantum theory and quantum information theory Unifying the real and complex cases as much as possible the monograph introduces the reader to a rich collection of results in functional analysis and probability In particular it includes a detailed self contained analysis of the multivariate distribution of complex Gaussian random vectors The notion of Completely Correlation Preserving CCP functions plays a particularly important role in the exposition The prerequisites are a basic knowledge of standard functional analysis complex analysis probability optimisation and some number theory and combinatorics However readers missing some background will be able to consult the generous bibliography which contains numerous references to useful textbooks The book will be of interest to PhD students and researchers in functional analysis complex analysis probability optimisation number theory and combinatorics in physics particularly in relation to the foundations of quantum mechanics and in computer science quantum information and complexity theory

History of Banach Spaces and Linear Operators Albrecht Pietsch, 2007-12-31 Written by a distinguished specialist in functional analysis this book presents a comprehensive treatment of the history of Banach spaces and abstract bounded linear operators Banach space theory is presented as a part of a broad mathematics context using tools from such areas as set theory topology algebra combinatorics probability theory logic etc Equal emphasis is given to both spaces and operators The book may serve as a reference for researchers and as an introduction for graduate students who want to learn Banach space theory with some historical flavor

Recent Advances in Operator Theory, Operator Algebras, and their Applications Dumitru Gaspar, Israel Gohberg, Dan Timotin, Florian H. Vasilescu, Laszlo Zsido, 2006-03-30 The Romanian conferences in operator theory as they are now commonly called have started in the year 1976 as an annual workshop on operator theory held at the University of Timi soara originally only with Romanian attendance The meeting soon evolved into an international conference with an increasingly larger participation It has been organized jointly initially by the Department of Mathematics of INCREST and by the Faculty of Sciences of the University of Timi soara then since 1990 by the Institute of Mathematics of the Romanian Academy and the Faculty of Mathematics of the West University of Timi soara The venue was usually Timi soara and occasionally Herculane Bucharest or Predeal Since 1986 the conference has been regularly held biannually at the beginning of the summer The 19th Conference on Operator Theory OT 19 took place between June 27th and July 2nd 2002 at the West University of Timi soara It is a pleasure to acknowledge the considerable financial support received through the programme EURROMMAT of the European Community under contract ICA1 CT 2000 70022 Partial support has also been provided by the Romanian Ministry of Education Research and Youth grants CERES 152 2001 and 153 2001 The full programme of the conference is included in the sequel It is worth mentioning also a special event that has taken place during the conference professor Israel Gohberg has been awarded the title of Doctor Honoris Causa of the West University of Timi soara

Descriptive Topology and Functional Analysis II Juan Carlos Ferrando, 2019-06-02 This book is the result of a meeting on Topology and Functional

Analysis and is dedicated to Professor Manuel López Pellicer's mathematical research. Covering topics in descriptive topology and functional analysis including topological groups and Banach space theory, fuzzy topology, differentiability, and renorming, tensor products of Banach spaces, and aspects of C_p theory, this volume is particularly useful to young researchers wanting to learn about the latest developments in these areas.

Orthonormal Systems and Banach Space Geometry Albrecht Pietsch, Jörg Wenzel, 1998-09-10. This book describes the interplay between orthonormal expansions and Banach space geometry.

Advanced Courses of Mathematical Analysis II A. Rodríguez-Palacios, M. V. Velasco, 2007. This volume comprises a collection of articles by leading researchers in mathematical analysis. It provides the reader with an extensive overview of new directions and advances in topics for current and future research in the field.

Methods in Banach Space Theory Jesus M. F. Castillo, William B. Johnson, 2006-11-30. A comprehensive overview of modern Banach space theory.

Tensor Norms And Operator Ideals Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Tensor Norms And Operator Ideals**," published by a highly 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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