Vector Lattices and Integral Operators

edited by

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Vector Lattices And Integral Operators

Michal Rosen-Zvi

Vector Lattices And Integral Operators:

    Nonstandard Analysis and Vector Lattices Semen Samsonovich Kutateladze,2000 This volume collects applications of nonstandard methods to the theory of vector lattices Primary attention is paid to combining infinitesimal and Boolean valued constructions of use in the classical problems of representing abstract analytical objects such as Banach Kantorovich spaces vector measures and dominated and integral operators The book is a complement to Volume 358 of MIA Vector Lattices and Integral Operators printed in 1996 <u>Vector Lattices and Intergal Operators</u> Semën Samsonovich Kutateladze,2012-12-06 The theory of vector lattices stemming from the mid thirties is now at the stage where its main achievements are being summarized The sweeping changes of the last two decades have changed its image completely The range of its application was expanded and enriched so as to embrace diverse branches of the theory of functions geometry of Banach spaces operator theory convex analysis etc Furthermore the theory of vector lattices was impregnated with principally new tools and techniques from other sections of mathematics These circumstances gave rise to a series of mono graphs treating separate aspects of the theory and oriented to specialists At the same time the necessity of a book intended for a wider readership reflecting the modern diretions of research became clear The present book is meant to be an attempt at implementing this task Although oriented to readers making their first acquaintance with vector lattice theory it is composed so that the main topics dealt with in the book reach the current level of research in the field which is of interest and import for specialists The monograph was conceived so as to be divisible into two parts that can be read independently of one another The first part is mainly Chapter 1 devoted to the so called Boolean valued analysis of vector lattices The term designates the applica tion of the theory of Boolean valued models by D Scott R Solovay and P **Vector Lattices and Intergal Operators** Semën Samsonovich Kutateladze,1996-01-31 The theory of vector lattices stemming from the mid thirties is now at the stage where its main achievements are being summarized The sweeping changes of the last two decades have changed its image completely The range of its application was expanded and enriched so as to embrace diverse branches of the theory of functions geometry of Banach spaces operator theory convex analysis etc Furthermore the theory of vector lattices was impregnated with principally new tools and techniques from other sections of mathematics These circumstances gave rise to a series of mono graphs treating separate aspects of the theory and oriented to specialists At the same time the necessity of a book intended for a wider readership reflecting the modern diretions of research became clear The present book is meant to be an attempt at implementing this task Although oriented to readers making their first acquaintance with vector lattice theory it is composed so that the main topics dealt with in the book reach the current level of research in the field which is of interest and import for specialists The monograph was conceived so as to be divisible into two parts that can be read independently of one another The first part is mainly Chapter 1 devoted to the so called Boolean valued analysis of vector lattices The term designates the applica tion of the theory of Boolean valued models by D Scott R Solovay and P **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

   An Invitation to Operator Theory Yuri A. Abramovich,Charalambos D. Aliprantis,2002 This book offers a comprehensive and reader friendly exposition of the theory of linear operators on Banach spaces and Banach lattices using their topological and order structures and properties Abramovich and Aliprantis give a unique presentation that includes many new and very recent developments in operator theory and also draws together results which are spread over the vast literature For instance invariant subspaces of positive operators and the Daugavet equation arepresented in monograph form for the first time The authors keep the discussion self contained and use exercises to achieve this goal The book contains over 600 exercises to help students master the material developed in the text The exercises are of varying degrees of difficulty and play an importantand useful role in the exposition They help to free the proofs of the main results of some technical details but provide students with accurate and complete accounts of how such details ought to be worked out The exercises also contain a considerable amount of additional material that includes many well known results whose proofs are not readily available elsewhere The companion volume Problems in Operator Theory also by Abramovich and Aliprantis is available from the AMS as Volume 51 inthe Graduate Studies in Mathematics series and it contains complete solutions to all exercises in An Invitation to Operator Theory The solutions demonstrate explicitly technical details in the proofs of many results in operator theory providing the reader with rigorous and complete accounts ofsuch details Finally the book offers a considerable amount of additional material and further developments By adding extra material to many exercises the authors have managed to keep the presentation as self contained as possible The best way of learning mathematics is by doing mathematics and the book Problems in Operator Theory will help achieve this goal Prerequisites to each book are the standard introductory graduate courses in real analysis general topology measure theory andfunctional analysis An Invitation to Operator Theory is suitable for graduate or advanced courses in operator theory real analysis integration theory measure theory function theory and functional analysis Problems in Operator Theory is a very useful supplementary text in the above

areas Bothbooks will be of great interest to researchers and students in mathematics as well as in physics economics finance engineering and other related areas and will make an indispensable reference tool *Dominated Operators* A.G. Kusraev,2013-03-09 The notion of a dominated or rnajorized operator rests on a simple idea that goes as far back as the Cauchy method of majorants Loosely speaking the idea can be expressed as follows If an operator equation under study is dominated by another operator equation called a dominant or majorant then the properties of the latter have a substantial influence on the properties of the former Thus operators or equations that have nice dominants must possess nice properties In other words an operator with a somehow qualified dominant must be qualified itself Mathematical tools putting the idea of domination into a natural and complete form were suggested by L V Kantorovich in 1935 36 He introduced the funda mental notion of a vector space normed by elements of a vector lattice and that of a linear operator between such spaces which is dominated by a positive linear or monotone sublinear operator He also applied these notions to solving functional equations In the succeedingyears many authors studied various particular cases of lattice normed spaces and different classes of dominated operators However research was performed within and in the spirit of the theory of vector and normed lattices So it is not an exaggeration to say that dominated operators as independent objects of investigation were beyond the reach of specialists for half a century As a consequence the most important structural properties and some interesting applications of dominated operators have become available since recently *The Journal of Integral Equations and Applications* ,1998

Operator Theory in Function Spaces and Banach Lattices C.B. Huijsmans,M.A. Kaashoek,W.A.J. Luxemburg,B.de Pagter,2012-12-06 This volume is dedicated to A C Zaanen one of the pioneers of functional analysis and eminent expert in modern integration theory and the theory of vector lattices on the occasion of his 80th birthday The book opens with biographical notes including Zaanen s curriculum vitae and list of publications It contains a selection of original research papers which cover a broad spectrum of topics about operators and semigroups of operators on Banach lattices analysis in function spaces and integration theory Special attention is paid to the spectral theory of operators on Banach lattices in particular to the one of positive operators Classes of integral operators arising in systems theory optimization and best approximation problems and evolution equations are also discussed The book will appeal to a wide range of readers engaged in pure and applied mathematics **Siberian Advances in Mathematics** ,2003 *Functional Differential Equations* ,1998

Dominated Operators A.G. Kusraev,2000-09-30 This book presents the main results of the last fifteen years on dominated operators demonstrating a well developed theory with a wide range of applications The exposition focuses on the fundamental properties of dominated operators with special emphasis on their particular classes integral and pseudointegral operators disjointness preserving and decomposable operators summing and cyclically compact operators etc Audience This volume will be of interest to postgraduate students and researchers whose work involves geometric functional analysis operator theory vector lattices measure and integration theory and mathematical logic and foundations Mathematica

<u>Japonicae</u> ,1998   **Narrow Operators on Function Spaces and Vector Lattices** Mikhail Popov,Beata Randrianantoanina,2012-12-06 Most classes of operators that are not isomorphic embeddings are characterized by some kind of a smallness condition Narrow operators are those operators defined on function spaces that are small at 1 0 1 valued functions e g compact operators are narrow The original motivation to consider such operators came from theory of embeddings of Banach spaces but since then they were also applied to the study of the Daugavet property and to other geometrical problems of functional analysis The question of when a sum of two narrow operators is narrow has led to deep developments of the theory of narrow operators including an extension of the notion to vector lattices and investigations of connections to regular operators Narrow operators were a subject of numerous investigations during the last 30 years This monograph provides a comprehensive presentation putting them in context of modern theory It gives an in depth systematic exposition of concepts related to and influenced by narrow operators starting from basic results and building up to most recent developments The authors include a complete bibliography and many attractive open problems   **Siberian Mathematical Journal** ,2006   **Revue Roumaine de Mathématiques Pures Et Appliquées** ,2004   *Mathematical Reviews* ,2003   **Reviews in Operator Theory, 1980-86** ,1989   **Real Functions** ,1998   **Ordered Algebraic Structures '93** ,1995   *Fuzzy Sets '94* ,1995

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