

Shmuel Kantorovitz

Semigroups of operators and spectral theory



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Semigroups Of Operators And Spectral Theory

Vladimir Müller



Semigroups Of Operators And Spectral Theory:

Semigroups of Operators and Spectral Theory S Kantorovitz, 1995-06-19 This book presents some aspects of the theory of semigroups of operators mostly from the point of view of its interaction with spectral theory In order to make it self contained a concise description of the basic theory of semigroups with complete proofs is included in Part I Some of the author s recent results such as the construction of the Hille Yosida space for general operators the semi simplicity manifold and a Taylor formula for semigroups as functions of their generator are also included in Part I Part II describes recent generalizations most of them in bookform for the first time including pre semigroups semi simplicity manifolds in situations more general than that considered in Part I semigroups of unbounded symmetric operators and an analogous result on local cosine families and semi analytic vectors It is hoped that this book will inspire more research in this field This book will be of particular interest to graduate students and researchers working operator theory and its applications **Semigroups of**

Operators and Spectral Theory Shmuel Kantorovitz, 1995 **Spectral Theory of Operators on Hilbert Spaces** Carlos S. Kubrusly, 2012-06-01 This work is a concise introduction to spectral theory of Hilbert space operators Its emphasis is on recent aspects of theory and detailed proofs with the primary goal of offering a modern introductory textbook for a first graduate course in the subject The coverage of topics is thorough as the book explores various delicate points and hidden features often left untreated Spectral Theory of Operators on Hilbert Spaces is addressed to an interdisciplinary audience of graduate students in mathematics statistics economics engineering and physics It will also be useful to working mathematicians using spectral theory of Hilbert space operators as well as for scientists wishing to apply spectral theory to their field **Spectral Theory of Linear Operators and Spectral Systems in Banach Algebras** Vladimir

Müller, 2013-11-11 Spectral theory is an important part of functional analysis It has numerous applications in many parts of mathematics and physics including matrix theory function theory complex analysis differential and integral equations control theory and quantum physics In recent years spectral theory has witnessed an explosive development There are many types of spectra both for one or several commuting operators with important applications for example the approximate point spectrum Taylor spectrum local spectrum essential spectrum etc The present monograph is an attempt to organize the available material most of which exists only in the form of research papers scattered throughout the literature The aim is to present a survey of results concerning various types of spectra in a unified axiomatic way The central unifying notion is that of a regularity which in a Banach algebra is a subset of elements that are considered to be nice A regularity R in a Banach algebra A defines the corresponding spectrum $\sigma_R(a)$ $a \in A$ in the same way as the ordinary spectrum is defined by means of invertible elements $a \in A$ $\lambda \in \mathbb{C}$ $\lambda \notin \sigma(a)$ iff $\lambda I - a$ is invertible in A Axioms of a regularity are chosen in such a way that there are many natural interesting classes satisfying them At the same time they are strong enough for non trivial consequences for example the spectral mapping theorem **Selected Lectures On Functional Analysis: Spectral Theory Of Operators, Banach Algebras,**

And Semigroups Of Operators Dachun Yang, Wen Yuan, 2025-05-14 The main aim of this book is to provide an advanced textbook on functional analysis focusing on the functional calculus of operators Based on basic knowledge of functional analysis on metric spaces and linear bounded operators this book systematically introduces the spectral theory of operators and the theory of operator semigroups including Banach algebras spectral theories of both bounded and unbounded linear operators as well as semigroups of operators They play important roles in various areas of modern mathematics such as harmonic analysis partial differential equations probability and statistics engineering science quantum physics and statistical mechanics This book provides rich examples and exercises emphasizing the combination of the theory and examples to enhance readers ability to apply functional analysis theory to solve related problems Compared with many other functional analysis textbooks this book focuses on the spectral theory and the operator semigroup theory serving as an appropriate connection for functional analysis between undergraduate and graduate levels making it an ideal textbook for both It will also be a good reference book for researchers who are interested in modern analysis such as functional analysis harmonic analysis and partial differential equations

A Short Course on Operator Semigroups Klaus-Jochen Engel, Rainer Nagel, 2006-06-06 The book offers a direct and up to date introduction to the theory of one parameter semigroups of linear operators on Banach spaces The book is intended for students and researchers who want to become acquainted with the concept of semigroups

Selected Lectures on Functional Analysis Wen Yuan Dachun Yang, 2025-05-25 The main aim of this book is to provide an advanced textbook on functional analysis focusing on the functional calculus of operators Based on basic knowledge of functional analysis on metric spaces and linear bounded operators this book systematically introduces the spectral theory of operators and the theory of operator semigroups including Banach algebras spectral theories of both bounded and unbounded linear operators as well as semigroups of operators They play important roles in various areas of modern mathematics such as harmonic analysis partial differential equations probability and statistics engineering science quantum physics and statistical mechanics This book provides rich examples and exercises emphasizing the combination of the theory and examples to enhance readers ability to apply functional analysis theory to solve related problems Compared with many other functional analysis textbooks this book focuses on the spectral theory and the operator semigroup theory serving as an appropriate connection for functional analysis between undergraduate and graduate levels making it an ideal textbook for both It will also be a good reference book for researchers who are interested in modern analysis such as functional analysis harmonic analysis and partial differential equations

Semigroups of Linear Operators and Applications Jerome A. Goldstein, 2017-05-17 Advanced graduate level treatment of semigroup theory explores semigroups of linear operators and linear Cauchy problems The text features challenging exercises and emphasizes motivation heuristics and further applications 1985 edition

Concrete Operators, Spectral Theory, Operators in Harmonic Analysis and Approximation Manuel Cepedello Boiso, Håkan Hedenmalm, Marinus A.

Kaashoek, Alfonso Montes Rodríguez, Sergei Treil, 2013-11-04 This book contains a collection of research articles and surveys on recent developments on operator theory as well as its applications covered in the IWOTA 2011 conference held at Sevilla University in the summer of 2011 The topics include spectral theory differential operators integral operators composition operators Toeplitz operators and more The book also presents a large number of techniques in operator theory Spectral Theory and Differential Operators David Edmunds, Des Evans, 2018-05-03 This book is an updated version of the classic 1987 monograph *Spectral Theory and Differential Operators* The original book was a cutting edge account of the theory of bounded and closed linear operators in Banach and Hilbert spaces relevant to spectral problems involving differential equations It is accessible to a graduate student as well as meeting the needs of seasoned researchers in mathematics and mathematical physics This revised edition corrects various errors and adds extensive notes to the end of each chapter which describe the considerable progress that has been made on the topic in the last 30 years *Stochastic Spectral Theory for Selfadjoint Feller Operators* Michael Demuth, Jan A. van Casteren, 2012-12-06 A beautiful interplay between probability theory Markov processes martingale theory on the one hand and operator and spectral theory on the other yields a uniform treatment of several kinds of Hamiltonians such as the Laplace operator relativistic Hamiltonian Laplace Beltrami operator and generators of Ornstein Uhlenbeck processes For such operators regular and singular perturbations of order zero and their spectral properties are investigated A complete treatment of the Feynman Kac formula is given The theory is applied to such topics as compactness or trace class properties of differences of Feynman Kac semigroups preservation of absolutely continuous and or essential spectra and completeness of scattering systems The unified approach provides a new viewpoint of and a deeper insight into the subject The book is aimed at advanced students and researchers in mathematical physics and mathematics with an interest in quantum physics scattering theory heat equation operator theory probability theory and spectral theory **Topics in Operator Semigroups** Shmuel Kantorovitz, 2009-10-22 This monograph is concerned with the interplay between the theory of operator semigroups and spectral theory The basics on operator semigroups are concisely covered in this self contained text Part I deals with the Hille Yosida and Lumer Phillips characterizations of semigroup generators the Trotter Kato approximation theorem Kato's unified treatment of the exponential formula and the Trotter product formula the Hille Phillips perturbation theorem and Stone's representation of unitary semigroups Part II explores generalizations of spectral theory's connection to operator semigroups *Operator Algebras Generated by Commuting Projections: A Vector Measure Approach* Werner Ricker, 2006-11-14 This book presents a systematic investigation of the theory of those commutative unital subalgebras of bounded linear operators acting in a Banach space which are closed for some given topology and are generated by a uniformly bounded Boolean algebra of projections One of the main aims is to employ the methods of vector measures and integration as a unifying theme throughout This yields proofs of several classical results which are quite different to the classical ones This book is directed to both those wishing to learn this topic for the

first time and to current experts in the field

Recent Progress in Operator Theory Israel C. Gohberg, Reinhard Mennicken, Christiane Tretter, 2012-12-06 This and the previous volume of the OT series contain the proceedings of the Workshop on Operator Theory and its Applications IWOTA 95 which was held at the University of Regensburg Germany July 31 to August 4 1995 It was the eighth workshop of this kind Following is a list of the seven previous workshops with reference to their proceedings 1981 Operator Theory Santa Monica California USA 1983 Applications of Linear Operator Theory to Systems and Networks Rehovot Israel OT 12 1985 Operator Theory and its Applications Amsterdam The Netherlands OT 19 1987 Operator Theory and Functional Analysis Mesa Arizona USA OT 35 1989 Matrix and Operator Theory Rotterdam The Netherlands OT 50 1991 Operator Theory and Complex Analysis Sapporo Japan OT 59 1993 Operator Theory and Boundary Eigenvalue Problems Vienna Austria OT 80 IWOTA 95 offered a rich programme on a wide range of latest developments in operator theory and its applications The programme consisted of 6 invited plenary lectures 54 invited special topic lectures and more than 100 invited session talks About 180 participants from 25 countries attended the workshop more than a third came from Eastern Europe The conference covered different aspects of linear and nonlinear spectral problems starting with problems for abstract operators up to spectral theory of ordinary and partial differential operators pseudodifferential operators and integral operators The workshop was also focussed on operator theory in spaces with indefinite metric operator functions interpolation and extension problems

Functional Analysis and Semi-groups Einar Hille, Ralph Saul Phillips, 1996-02-06 Early in 1952 it became obvious that a new printing would be needed and new advances in the theory called for extensive revision It has been completely rewritten mostly by Phillips and much has been added while keeping the existing framework Thus the algebraic tools play a major role and are introduced early leading to a more satisfactory operational calculus and spectral theory The Laplace Stieltjes transform methods used by Hille have not been replaced but rather supplemented by the new tools

Foreword

The Cauchy Problem for Higher Order Abstract Differential Equations Ti-Jun Xiao, Jin Liang, 2013-12-11 The main purpose of this book is to present the basic theory and some recent developments concerning the Cauchy problem for higher order abstract differential equations $u^{(n)} + A_n u^{(n-1)} + \dots + A_1 u' + A_0 u = f(t)$ where A_0, A_1, \dots, A_n are linear operators in a topological vector space E Many problems in nature can be modeled as ACP For example many initial value or initial boundary value problems for partial differential equations stemmed from mechanics physics engineering control theory etc can be translated into this form by regarding the partial differential operators in the space variables as operators A_i in some function space E and letting the boundary conditions if any be absorbed into the definition of the space E or of the domain of A_i this idea of treating initial value or initial boundary value problems was discovered independently by E Hille and K Yosida in the forties The theory of ACP is closely connected with many other branches of mathematics Therefore the study of ACP is important for both theoretical investigations and practical applications Over the past half a century ACP has been studied extensively

Mathematical Theory of a Fluid Flow Around

a Rotating and Translating Body Šárka Nečasová, Stanislav Kračmar, Jiří Neustupa, Patrick Penel, 2025-07-01 The book deals with qualitative analysis of the mathematical model of flow of a viscous incompressible fluid around a translating and rotating body. The considered mathematical model which represents the description of the flow in a coordinate system attached to the body is derived from the Navier Stokes equations by means of an appropriate transformation. The core of the book is the mathematical theory of the transformed equations. Most of the text is devoted to the theory of the linearized versions of these equations, i.e. the Stokes and Oseen type equations, because they play a fundamental role in the theory of the complete nonlinear system. Considering strong, weak and very weak solutions, we present the L^2 and L^q theories and the weighted space theory with Muckenhoupt's weights in the whole space and in an exterior domain. The book also contains the spectral analysis of the associated linear Stokes-Oseen type operators and the information on semigroups generated by these operators and related resolvent estimates. Moreover, the book describes the asymptotic behavior of solutions and leading profiles of solutions for linear and as well as nonlinear systems. Further, the book contains studies of the problem with artificial boundary, important in numerical analysis, an introduction to the theory of the corresponding complete nonlinear system in both steady and nonsteady cases, a brief description of the situation when the rotation is not parallel to the velocity at infinity and necessary estimates of the related Oseen kernels.

Abstract Cauchy Problems Irina V. Melnikova, Alexei Filinkov, 2001-03-27 Although the theory of well posed Cauchy problems is reasonably understood, ill posed problems involved in a numerous mathematical models in physics, engineering and finance can be approached in a variety of ways. Historically, there have been three major strategies for dealing with such problems: semigroup, abstract distribution and regularization.

Recent Advances in Operator Theory and Applications Tsuyoshi Ando, Il Bong Jung, Woo Young Lee, 2008-12-19 Contains the proceedings of the International Workshop on Operator Theory and Applications (IWOTA 2006) held at Seoul National University, Seoul, Korea, from July 31 to August 3, 2006. This volume contains sixteen research papers which reflect developments in operator theory and applications.

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