

Spectral Methods in Infinite-Dimensional Analysis

Volume 1

**Y. M. Berezansky
Y. G. Kondratiev**

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Spectral Methods In Infinite Dimensional Analysis

Wolfgang Guggemos



Spectral Methods In Infinite Dimensional Analysis:

Spectral Methods in Infinite-Dimensional Analysis Yu.M. Berezansky, Y.G. Kondratiev, 2013-06-29 The Russian edition of this book appeared 5 years ago Since that time many results have been improved upon and new approaches to the problems investigated in the book have appeared But the greatest surprise for us was to discover that there exists a large group of mathematicians working in the area of the so called White Noise Analysis which is closely connected with the essential part of our book namely with the theory of generalized functions of infinitely many variables The first papers dealing with White Noise Analysis were written by T Hida in Japan in 1975 Later this analysis was developed intensively in Japan Germany U S A Taipei and in other places The related problems of infinite dimensional analysis have been studied in Kiev since 1967 and the theory of generalized functions of infinitely many variables has been investigated since 1973 However due to the political system in the U S S R contact between Ukrainian and foreign mathematicians was impossible for a long period of time This is why to our great regret only at the end of 1988 did one of the authors meet L Streit who told him about the existence of White Noise Analysis And it became clear that many results in these two theories coincide and that in fact there exists a single theory and not two distinct ones [Spectral methods in infinite-dimensional analysis. 1](#)

[\(1995\) Ilya I. Makarovich Berezanskiĭ, Igor'evich Kondrat'ev, 1995](#) **Spectral Methods in Infinite-Dimensional Analysis** Yu.M. Berezansky, Y.G. Kondratiev, 2012-11-10 The Russian edition of this book appeared 5 years ago Since that time many results have been improved upon and new approaches to the problems investigated in the book have appeared But the greatest surprise for us was to discover that there exists a large group of mathematicians working in the area of the so called White Noise Analysis which is closely connected with the essential part of our book namely with the theory of generalized functions of infinitely many variables The first papers dealing with White Noise Analysis were written by T Hida in Japan in 1975 Later this analysis was developed intensively in Japan Germany U S A Taipei and in other places The related problems of infinite dimensional analysis have been studied in Kiev since 1967 and the theory of generalized functions of infinitely many variables has been investigated since 1973 However due to the political system in the U S S R contact between Ukrainian and foreign mathematicians was impossible for a long period of time This is why to our great regret only at the end of 1988 did one of the authors meet L Streit who told him about the existence of White Noise Analysis And it became clear that many results in these two theories coincide and that in fact there exists a single theory and not two distinct ones **Modern Analysis and Applications** Vadim Adamyan, Yu.M. Berezansky, Israel Gohberg, Myroslav L. Gorbachuk, Valentyna Gorbachuk, Anatoly N. Kochubei, Heinz Langer, Gennadi Popov, 2009-08-29 This is the first of two volumes containing peer reviewed research and survey papers based on talks at the International Conference on Modern Analysis and Applications The papers describe the contemporary development of subjects influenced by Mark Krein *Finite and Infinite Dimensional Analysis in Honor of Leonard Gross* Hui-Hsiung Kuo, Ambar Sengupta, 2003 This

book contains the proceedings of the special session in honor of Leonard Gross held at the annual Joint Mathematics Meetings in New Orleans LA The speakers were specialists in a variety of fields and many were Professor Gross s former Ph D students and their descendants Papers in this volume present results from several areas of mathematics They illustrate applications of powerful ideas that originated in Gross s work and permeate diverse fields Topics include stochastic partial differential equations white noise analysis Brownian motion Segal Bargmann analysis heat kernels and some applications The volume should be useful to graduate students and researchers It provides perspective on current activity and on central ideas and techniques in the topics covered

The Method of Rigged Spaces in Singular Perturbation Theory of Self-Adjoint Operators Volodymyr Koshmanenko, Mykola Dudkin, 2016-07-08 This monograph presents the newly developed method of rigged Hilbert spaces as a modern approach in singular perturbation theory A key notion of this approach is the Lax Berezansky triple of Hilbert spaces embedded one into another which specifies the well known Gelfand topological triple All kinds of singular interactions described by potentials supported on small sets like the Dirac potentials fractals singular measures high degree super singular expressions admit a rigorous treatment only in terms of the equipped spaces and their scales The main idea of the method is to use singular perturbations to change inner products in the starting rigged space and the construction of the perturbed operator by the Berezansky canonical isomorphism which connects the positive and negative spaces from a new rigged triplet The approach combines three powerful tools of functional analysis based on the Birman Krein Vishik theory of self adjoint extensions of symmetric operators the theory of singular quadratic forms and the theory of rigged Hilbert spaces The book will appeal to researchers in mathematics and mathematical physics studying the scales of densely embedded Hilbert spaces the singular perturbations phenomenon and singular interaction problems

Gaussian Measures Vladimir I. Bogachev, 2015-01-26 This book gives a systematic exposition of the modern theory of Gaussian measures It presents with complete and detailed proofs fundamental facts about finite and infinite dimensional Gaussian distributions Covered topics include linear properties convexity linear and nonlinear transformations and applications to Gaussian and diffusion processes Suitable for use as a graduate text and or a reference work this volume contains many examples exercises and an extensive bibliography It brings together many results that have not appeared previously in book form

Lectures on the Mathematics of Quantum Mechanics II: Selected Topics Gianfausto Dell'Antonio, 2016-05-24 The first volume General Theory differs from most textbooks as it emphasizes the mathematical structure and mathematical rigor while being adapted to the teaching the first semester of an advanced course in Quantum Mechanics the content of the book are the lectures of courses actually delivered It differs also from the very few texts in Quantum Mechanics that give emphasis to the mathematical aspects because this book being written as Lecture Notes has the structure of lectures delivered in a course namely introduction of the problem outline of the relevant points mathematical tools needed theorems proofs This makes this book particularly useful for self study and for instructors in the preparation of

a second course in Quantum Mechanics after a first basic course With some minor additions it can be used also as a basis of a first course in Quantum Mechanics for students in mathematics curricula The second part Selected Topics are lecture notes of a more advanced course aimed at giving the basic notions necessary to do research in several areas of mathematical physics connected with quantum mechanics from solid state to singular interactions many body theory semi classical analysis quantum statistical mechanics The structure of this book is suitable for a second semester course in which the lectures are meant to provide in addition to theorems and proofs an overview of a more specific subject and hints to the direction of research In this respect and for the width of subjects this second volume differs from other monographs on Quantum Mechanics The second volume can be useful for students who want to have a basic preparation for doing research and for instructors who may want to use it as a basis for the presentation of selected topics

Geometric Methods in Physics XXXVIII Piotr Kielanowski, Anatol Odziejewicz, Emma Previato, 2020-10-27 The book consists of articles based on the XXXVIII Bia owie a Workshop on Geometric Methods in Physics 2019 The series of Bia owie a workshops attended by a community of experts at the crossroads of mathematics and physics is a major annual event in the field The works in this book based on presentations given at the workshop are previously unpublished at the cutting edge of current research typically grounded in geometry and analysis with applications to classical and quantum physics For the past eight years the Bia owie a Workshops have been complemented by a School on Geometry and Physics comprising series of advanced lectures for graduate students and early career researchers The extended abstracts of the five lecture series that were given in the eighth school are included The unique character of the Workshop and School series draws on the venue a famous historical cultural and environmental site in the Bia owie a forest a UNESCO World Heritage Centre in the east of Poland lectures are given in the Nature and Forest Museum and local traditions are interwoven with the scientific activities The chapter Toeplitz Extensions in Noncommutative Topology and Mathematical Physics is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

Self-Adjoint Extension Schemes and Modern Applications to Quantum Hamiltonians Matteo Gallone, Alessandro Michelangeli, 2023-04-04 This book introduces and discusses the self adjoint extension problem for symmetric operators on Hilbert space It presents the classical von Neumann and Krein Vishik Birman extension schemes both in their modern form and from a historical perspective and provides a detailed analysis of a range of applications beyond the standard pedagogical examples the latter are indexed in a final appendix for the reader's convenience Self adjointness of operators on Hilbert space representing quantum observables in particular quantum Hamiltonians is required to ensure real valued energy levels unitary evolution and more generally a self consistent theory Physical heuristics often produce candidate Hamiltonians that are only symmetric their extension to suitably larger domains of self adjointness when possible amounts to declaring additional physical states the operator must act on in order to have a consistent physics and distinct self adjoint extensions describe different physics Realising observables self adjointly is the

first fundamental problem of quantum mechanical modelling The discussed applications concern models of topical relevance in modern mathematical physics currently receiving new or renewed interest in particular from the point of view of classifying self adjoint realisations of certain Hamiltonians and studying their spectral and scattering properties The analysis also addresses intermediate technical questions such as characterising the corresponding operator closures and adjoints Applications include hydrogenoid Hamiltonians Dirac Coulomb Hamiltonians models of geometric quantum confinement and transmission on degenerate Riemannian manifolds of Grushin type and models of few body quantum particles with zero range interaction Graduate students and non expert readers will benefit from a preliminary mathematical chapter collecting all the necessary pre requisites on symmetric and self adjoint operators on Hilbert space including the spectral theorem and from a further appendix presenting the emergence from physical principles of the requirement of self adjointness for observables in quantum mechanics

Quantum Mathematics II Michele Correggi, Marco Falconi, 2023-12-08 This book is the second volume that provides an unique overview of the most recent and relevant contributions in the field of mathematical physics with a focus on the mathematical features of quantum mechanics It is a collection of review papers together with brand new works related to the activities of the INdAM Intensive Period INdAM Quantum Meetings IQM22 which took place at the Politecnico di Milano in Spring 2022 at Politecnico di Milano The range of topics covered by the book is wide going ranging from many body quantum mechanics to quantum field theory and open quantum systems Truss and Frames Aykut Kentli, 2020-03-04 This book presents the application of new techniques in analyzing truss and frame structures The book contains two main sections Numerical Analysis of Structures and Mass Saving in Structures Under each section different approaches on the topic are given Covered in these sections are dynamic stability analysis design optimization considering vibration FEM analysis topology optimization methods and recommendations to build lightweight structures It is believed that this book will be helpful to its readers for new perspectives on the analysis of structures

Stochastic Partial Differential Equations Helge Holden, Bernt Øksendal, Jan Ubøe, Tusheng Zhang, 2009-12-01 The first edition of Stochastic Partial Differential Equations A Modeling White Noise Functional Approach gave a comprehensive introduction to SPDEs In this the second edition the authors build on the theory of SPDEs driven by space time Brownian motion or more generally space time Levy process noise Applications of the theory are emphasized throughout The stochastic pressure equation for fluid flow in porous media is treated as are applications to finance Graduate students in pure and applied mathematics as well as researchers in SPDEs physics and engineering will find this introduction indispensable Useful exercises are collected at the end of each chapter *Commuting Elements In Q-deformed Heisenberg Algebras* Lars Hellstrom, Sergei Silvestrov, 2000-09-27 Noncommutative algebras rings and other noncommutative objects along with their more classical commutative counterparts have become a key part of modern mathematics physics and many other fields The q deformed Heisenberg algebras defined by deformed Heisenberg canonical commutation relations of quantum mechanics

play a distinguished role as important objects in pure mathematics and in many applications in physics The structure of commuting elements in an algebra is of fundamental importance for its structure and representation theory as well as for its applications The main objects studied in this monograph are q deformed Heisenberg algebras more specifically commuting elements in q deformed Heisenberg algebras In this book the structure of commuting elements in q deformed Heisenberg algebras is studied in a systematic way Many new results are presented with complete proofs Several appendices with some general theory used in other parts of the book include material on the Diamond lemma for ring theory a theory of degree functions in arbitrary associative algebras and some basic facts about q combinatorial functions over an arbitrary field The bibliography contains in addition to references on q deformed Heisenberg algebras some selected references on related subjects and on existing and potential applications The book is self contained as far as proofs and the background material are concerned In addition to research and reference purposes it can be used in a special course or a series of lectures on the subject or as complementary material to a general course on algebra Specialists as well as doctoral and advanced undergraduate students in mathematics and physics will find this book useful in their research and study

Mathematical Foundations of Quantum Statistical Mechanics D.Y. Petrina, 2012-12-06 This monograph is devoted to quantum statistical mechanics It can be regarded as a continuation of the book Mathematical Foundations of Classical Statistical Mechanics Continuous Systems Gordon Breach SP 1989 written together with my colleagues V I Gerasimenko and P V Malyshev Taken together these books give a complete presentation of the statistical mechanics of continuous systems both quantum and classical from the common point of view Both books have similar contents They deal with the investigation of states of infinite systems which are described by infinite sequences of statistical operators reduced density matrices or Green's functions in the quantum case and by infinite sequences of distribution functions in the classical case The equations of state and their solutions are the main object of investigation in these books For infinite systems the solutions of the equations of state are constructed by using the thermodynamic limit procedure according to which we first find a solution for a system of finitely many particles and then let the number of particles and the volume of a region tend to infinity keeping the density of particles constant However the style of presentation in these books is quite different

Pseudo-Differential Equations And Stochastics Over Non-Archimedean Fields Anatoly Kochubei, 2001-08-03 Provides comprehensive coverage of the most recent developments in the theory of non Archimedean pseudo differential equations and its application to stochastics and mathematical physics offering current methods of construction for stochastic processes in the field of p -adic numbers and related structures Develops a new theory for parabolic equations

Let Us Use White Noise Takeyuki Hida, Ludwig Streit, 2017-03-10 Why should we use white noise analysis Well one reason of course is that it fills that earlier gap in the tool kit As Hida would put it white noise provides us with a useful set of independent coordinates parametrized by time And there is a feature which makes white noise analysis extremely user friendly Typically the physicist and not only he sits there with

some heuristic ansatz like e.g. the famous Feynman integral wondering whether and how this might make sense mathematically. In many cases the characterization theorem of white noise analysis provides the user with a sweet and easy answer. Feynman's integral can now be understood. It's all in the vacuum ansatz of Haag and Coester is now making sense via Dirichlet forms and so on in many fields of application. There is mathematical finance, there have been applications in biology and engineering many more than we could collect in the present volume. Finally, there is one extra benefit when we internalize the structures of Gaussian white noise analysis: we will be ready to meet another close relative. We will enjoy the important similarities and differences which we encounter in the Poisson case championed in particular by Y. Kondratiev and his group. Let us look forward to a companion volume on the uses of Poisson white noise. The present volume is more than a collection of autonomous contributions. The introductory chapter on white noise analysis was made available to the other authors early on for reference and to facilitate conceptual and notational coherence in their work.

Singular Quadratic Forms in Perturbation Theory Volodymyr Koshmanenko, 2012-12-06. The notion of singular quadratic form appears in

mathematical physics as a tool for the investigation of formal expressions corresponding to perturbations devoid of operator sense. Numerous physical models are based on the use of Hamiltonians containing perturbation terms with singular properties. Typical examples of such expressions are Schrödinger operators with O potentials and Hamiltonians in quantum field theory with perturbations given in terms of operators of creation and annihilation.

Selfadjoint Operators in Spaces of Functions of Infinitely Many Variables I Uri Makarovich Berezanski, 1986-12-31. Questions in the spectral theory of selfadjoint and normal operators acting in spaces of functions of infinitely many variables are studied in this book and in particular the theory of expansions in generalized eigenfunctions of such operators. Both individual operators and arbitrary commuting families of them are considered. A theory of generalized functions of infinitely many variables is constructed. The circle of questions presented has evolved in recent years especially in connection with problems in quantum field theory. This book will be useful to mathematicians and physicists interested in the indicated questions as well as to graduate students and students in advanced university courses.

Operator Theory and Related Topics V.M. Adamyan, Israel Gohberg, Myroslav L. Gorbachuk, Valentina Gorbachuk, Marinus A. Kaashoek, H. Langer, G. Popov, 2000-03-01. The present book is the second of the two volume Proceedings of the Mark Krein International Conference on Operator Theory and Applications. This conference which was dedicated to the 90th Anniversary of the prominent mathematician Mark Krein was held in Odessa, Ukraine from 18-22 August 1997. The conference focused on the main ideas, methods, results and achievements of M.G. Krein. This second volume is devoted to operator theory and related topics. It opens with the bibliography of M.G. Krein and a number of survey papers about his work. The main part of the book consists of original research papers presenting the state of the art in operator theory and its applications. The first volume of these proceedings entitled *Differential Operators and related Topics* concerns the other aspects of the conference. The two volumes will be of

interest to a wide range of readership in pure and applied mathematics physics and engineering sciences Table of Contents
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