Spectral Theory of Canonical Differential Systems. Method of Operator Identities

Lev A. Sakhnovich

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Vyacheslav L. Girko

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Spectral Theory of Canonical Differential Systems. Method of Operator Identities L.A. Sakhnovich,2012-12-06 The spectral theory of ordinary differential operators L and of the equations 0 1 Ly AY connected with such operators plays an important role in a number of problems both in physics and in mathematics Let us give some examples of differential operators and equations the spectral theory of which is well developed Example 1 The Sturm Liouville operator has the form see 6 2 d y 0 2 Ly dx u x y Ay 2 In quantum mechanics the Sturm Liouville operator L is known as the one dimen sional Schrodinger operator The behaviour of a quantum particle is described in terms of spectral characteristics of the operator L Example 2 The vibrations of a nonhomogeneous string are described by the equa tion see 59 p x o 0 3 The first results connected with equation 0 3 were obtained by D Bernoulli and L Euler The investigation of this equation and of its various generalizations continues to be a very active field see e g 18 19 The spectral theory of the equation 0 3 has also found important applications in probability theory 20 Example 3 Dirac type systems of the form 0 4 where a x a x b x b x are also well studied Among the works devoted to the spectral theory of the system 0 4 the well known article of M G KreIn 48 deserves special mention   Spectral Theory of Canonical Systems Christian Remling,2018-08-21 Canonical systems occupy a central position in the spectral theory of second order differential operators They may be used to realize arbitrary spectral data and the classical operators such as Schr dinger Jacobi Dirac and Sturm Liouville equations can be written in this form Spectral Theory of Canonical Systems offers a selfcontained and detailed introduction to this theory Techniques to construct self adjoint realizations in suitable Hilbert spaces a modern treatment of de Branges spaces and direct and inverse spectral problems are discussed Contents Basic definitions Symmetric and self adjoint relations Spectral representation Transfer matrices and de Branges spaces Inverse spectral theory Some applications The absolutely continuous spectrum   **Spectral Theory of Canonical Systems** Christian Remling,2018-08-21 Canonical systems occupy a central position in the spectral theory of second order differential operators They may be used to realize arbitrary spectral data and the classical operators such as Schr dinger Jacobi Dirac and Sturm Liouville equations can be written in this form Spectral Theory of Canonical Systems offers a selfcontained and detailed introduction to this theory Techniques to construct self adjoint realizations in suitable Hilbert spaces a modern treatment of de Branges spaces and direct and inverse spectral problems are discussed Contents Basic definitions Symmetric and self adjoint relations Spectral representation Transfer matrices and de Branges spaces Inverse spectral theory Some applications The absolutely continuous spectrum   *Spectral Theory of Differential Operators* I.W. Knowles,R.T. Lewis,1981-01-01 Spectral Theory of Differential Operators   *Spectral Theory and Differential Equations* E. Khruslov,L. Pastur,D. Shepelsky,2014-09-26 This volume is dedicated to V A Marchenko on the occasion of his 90th birthday It contains refereed original papers and survey articles written by his colleagues and former students of international stature and focuses on the areas to which he made important contributions spectral theory of differential and

difference operators and related topics of mathematical physics including inverse problems of spectral theory homogenization theory and the theory of integrable systems The papers in the volume provide a comprehensive account of many of the most significant recent developments in that broad spectrum of areas   Introduction to spectral theory: selfadjoint ordinary differential operators Boris Moiseevich Levitan,Ishkhan Saribekovich Sargsi︠a︡n,1975 Presents a monograph that is devoted to the spectral theory of the Sturm Liouville operator and to the spectral theory of the Dirac system This book concerns with nth order operators that can serve as simply an introduction to this domain It includes a chapter that discusses this theory   **Orthogonal Polynomials on the Unit Circle: Spectral theory** Barry Simon,2005 This two part book is a comprehensive overview of the theory of probability measures on the unit circle viewed especially in terms of the orthogonal polynomials defined by those measures A major theme involves the connections between the Verblunsky coefficients the coefficients of the recurrence equation for the orthogonal polynomials and the measures an analog of the spectral theory of one dimensional Schr dinger operators Among the topics discussed along the way are the asymptotics of Toeplitz determinants Szeg s theorems limit theorems for the density of the zeros of orthogonal polynomials matrix representations for multiplication by z CMV matrices periodic Verblunsky coefficients from the point of view of meromorphic functions on hyperelliptic surfaces and connections between the theories of orthogonal polynomials on the unit circle and on the real line   *Spectral Theory, Mathematical System Theory, Evolution Equations, Differential and Difference Equations* Wolfgang Arendt,Joseph A. Ball,Jussi Behrndt,Karl-Heinz Förster,Volker Mehrmann,Carsten Trunk,2012-06-15 The present volume contains a collection of original research articles and expository contributions on recent developments in operator theory and its multifaceted applications They cover a wide range of themes from the IWOTA 2010 conference held at the TU Berlin Germany including spectral theory function spaces mathematical system theory evolution equations and semigroups and differential and difference operators The book encompasses new trends and various modern topics in operator theory and serves as a useful source of information to mathematicians scientists and engineers   **Indefinite Inner Product Spaces, Schur Analysis, and Differential Equations** Daniel Alpay,Bernd Kirstein,2018-01-30 This volume which is dedicated to Heinz Langer includes biographical material and carefully selected papers Heinz Langer has made fundamental contributions to operator theory In particular he has studied the domains of operator pencils and nonlinear eigenvalue problems the theory of indefinite inner product spaces operator theory in Pontryagin and Krein spaces and applications to mathematical physics His works include studies on and applications of Schur analysis in the indefinite setting where the factorization theorems put forward by Krein and Langer for generalized Schur functions and by Dijksma Langer Luger Shondin play a key role The contributions in this volume reflect Heinz Langer s chief research interests and will appeal to a broad readership whose work involves operator theory   Spectral Theory of Random Matrices Vyacheslav L. Girko,2016-08-23 Spectral Theory of Random Matrices   Bitangential Direct and Inverse Problems

for Systems of Integral and Differential Equations Damir Z. Arov,Harry Dym,2012-09-13 An essentially self contained treatment ideal for mathematicians physicists or engineers whose research is connected with inverse problems   Levy Processes, Integral Equations, Statistical Physics: Connections and Interactions Lev A. Sakhnovich,2012-07-18 In a number of famous works M Kac showed that various methods of probability theory can be fruitfully applied to important problems of analysis The interconnection between probability and analysis also plays a central role in the present book However our approach is mainly based on the application of analysis methods the method of operator identities integral equations theory dual systems integrable equations to probability theory Levy processes M Kac s problems the principle of imperceptibility of the boundary signal theory The essential part of the book is dedicated to problems of statistical physics classical and quantum cases We consider the corresponding statistical problems Gibbs type formulas non extensive statistical mechanics Boltzmann equation from the game point of view the game between energy and entropy One chapter is dedicated to the construction of special examples instead of existence theorems D Larson s theorem Ringrose s hypothesis the Kadison Singer and Gohberg Krein questions We also investigate the Bezoutiant operator In this context we do not make the assumption that the Bezoutiant operator is normally solvable allowing us to investigate the special classes of the entire functions   **Recent Advances in Operator Theory and Its Applications** Marinus A. Kaashoek,Sebastiano Seatzu,Cornelis van der Mee,2006-01-17 This book contains a selection of carefully refereed research papers most of which were presented at the fourteenth International Workshop on Operator Theory and its Applications IWOTA held at Cagliari Italy from June 24 27 2003 The papers many of which have been written by leading experts in the field concern a wide variety of topics in modern operator theory and applications with emphasis on differential operators and numerical methods The book will be of interest to a wide audience of pure and applied mathematicians and engineers   **Function Spaces, Theory and Applications** Ilia Binder,Damir Kinzebulatov,Javad Mashreghi,2023-12-11 The focus program on Analytic Function Spaces and their Applications took place at Fields Institute from July 1st to December 31st 2021 Hilbert spaces of analytic functions form one of the pillars of complex analysis These spaces have a rich structure and for more than a century have been studied by many prominent mathematicians They also have several essential applications in other fields of mathematics and engineering e g robust control engineering signal and image processing and theory of communication The most important Hilbert space of analytic functions is the Hardy class H2 However its close cousins e g the Bergman space A2 the Dirichlet space D the model subspaces Kt and the de Branges Rovnyak spaces H b have also been the center of attention in the past two decades Studying the Hilbert spaces of analytic functions and the operators acting on them as well as their applications in other parts of mathematics or engineering were the main subjects of this program During the program the world leading experts on function spaces gathered and discussed the new achievements and future venues of research on analytic function spaces their operators and their applications in other domains With more than 250 hours of lectures by prominent mathematicians a

wide variety of topics were covered More explicitly there were mini courses and workshops on Hardy Spaces Dirichlet Spaces Bergman Spaces Model Spaces Interpolation and Sampling Riesz Bases Frames and Signal Processing Bounded Mean Oscillation de Branges Rovnyak Spaces Operators on Function Spaces Truncated Toeplitz Operators Blaschke Products and Inner Functions Discrete and Continuous Semigroups of Composition Operators The Corona Problem Non commutative Function Theory Drury Arveson Space and Convergence of Scattering Data and Non linear Fourier Transform At the end of each week there was a high profile colloquium talk on the current topic The program also contained two semester long advanced courses on Schramm Loewner Evolution and Lattice Models and Reproducing Kernel Hilbert Space of Analytic Functions The current volume features a more detailed version of some of the talks presented during the program

    Differential Operators and Related Topics V. M. Adamīan,2000 The present book is the first 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 confer encefocused onthemain ideas methods results andachievementsofM G Krein This first volume is devoted to the theory of differential operators and related topics It opens with a description of the conference biographical material and a number of survey papers about the work of M G Krein The main part of the book consists oforiginal research papers presenting the stateofthe art in the area ofdifferential operators The second volume of these proceedings entitled Operator Theory 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 Preface v Table of Contents VII Picture of M G Krein Xl About the Mark Krein International Conference Mark Grigorevich Krein A short biography 5 I Gohberg The Seminar on Ship Hydrodynamics Organized by M G Krein 9 v G Sizov Review Papers The Works ofM G Krein on Eigenfunction Expansion for Selfadjoint Operators and their Applications and Development 21 Yu M Berezansky M G Krein and the Extension Theory of Symmetric Operators   *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 second 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   **Analytic Methods of Spectral Representations of Non-Selfadjoint (Non-Unitary) Operators** Vladimir A. Zolotarev,2025-05-03 This book is concerned with the theory of model representations of linear non selfadjoint and non unitary operators This booming area of functional analysis owes its origins to the fundamental works of M S Liv ic on the theory of characteristic functions the deep studies of B S Nagy and C Foias on dilation theory and also to the Lax Phillips scattering theory Here a uniform conceptual approach is developed which organically unites all these theories New analytic methods are introduced which make it possible to solve some

important problems from the theory of spectral representations Aimed at specialists in functional analysis the book will also be accessible to senior mathematics students **Boundary Value Problems, Weyl Functions, and Differential Operators** Jussi Behrndt,Seppo Hassi,Henk de Snoo,2020-01-03 This open access book presents a comprehensive survey of modern operator techniques for boundary value problems and spectral theory employing abstract boundary mappings and Weyl functions It includes self contained treatments of the extension theory of symmetric operators and relations spectral characterizations of selfadjoint operators in terms of the analytic properties of Weyl functions form methods for semibounded operators and functional analytic models for reproducing kernel Hilbert spaces Further it illustrates these abstract methods for various applications including Sturm Liouville operators canonical systems of differential equations and multidimensional Schr dinger operators where the abstract Weyl function appears as either the classical Titchmarsh Weyl coefficient or the Dirichlet to Neumann map The book is a valuable reference text for researchers in the areas of differential equations functional analysis mathematical physics and system theory Moreover thanks to its detailed exposition of the theory it is also accessible and useful for advanced students and researchers in other branches of natural sciences and engineering *The Extended Field of Operator Theory* Michael A. Dritschel,2007-06-25 This volume contains contributions originating from the International Workshop on Operator Theory and Its Applications IWOTA held in Newcastle upon Tyne in July 2004 The articles expertly cover a broad range of material at the cutting edge of functional analysis and its applications The works are written by world authorities in their specialities *Operator Methods in Ordinary and Partial Differential Equations* Sergio Albeverio,Nils Elander,W. Nirrie Everitt,Pavel Kurasov,2012-12-06 CO i b H BaCHJIbeBHa lU BaJIeBcR8JI Sonja Kovalevsky was born in Moscow in 1850 and died in Stockholm in 1891 Between these years in the then changing and turbulent circumstances for Europe lies the all too brief life of this remarkable woman This life was lived out within the great European centers of power and learning in Russia France Germany Switzerland England and Sweden To this day now 150 years after her birth her influence for and contribution to mathe matics science literature women s rights and democratic government are recorded and reviewed not only in Europe but now in countries far removed in time and distance from the lands of her birth and being This volume dedicated to her memory and to her achievements records the Proceedings of the Marcus Wallenberg Symposium held in memory of Sonja Kovalevsky at Stockholm University from 18 to 22 June 2000 The symposium was held at the Department of Mathematics with its excellent library and lecture halls providing favourable working conditions Within these pages are contained a curriculum vitae for Sonja Kovalevsky a list of all her scientific publications together with a copy of the moving and elegant obituary notice written by her friend and protector Gosta Mittag Leffler These papers are followed by a leading article entitled Sonja Kovalevsky Her life and professorship in Stockholm written especially for this volume by Jan Erik Bjork in preparation for his major address to the Symposium

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