Operator Theory and Boundary Eigenvalue Problems

International Workshop in Vienna, July 27–30, 1993

Edited by

I. Gohberg
H. Langer

Operator Theory And Boundary Eigenvalue Problems International Workshop In Vienna 1993 Operator Theory

Albrecht Böttcher,Yuri I. Karlovich,Ilya M. Spitkovsky

Operator Theory And Boundary Eigenvalue Problems International Workshop In Vienna 1993 Operator Theory:

Operator Theory and Boundary Eigenvalue Problems Israel Gohberg,H. Langer,1995   Operator Theory and Boundary Eigenvalue Problems I. Gohberg,H. Langer,2012-12-06 The Workshop on Operator Theory and Boundary Eigenvalue Problems was held at the Technical University Vienna Austria July 27 to 30 1993 It was the seventh workshop in the series of IWOTA International Workshops on Operator Theory and Applications The main topics at the workshop were interpolation problems and analytic matrix functions operator theory in spaces with indefinite scalar products boundary value problems for differential and functional differential equations and systems theory and control The workshop covered different aspects starting with abstract operator theory up to contrete applications The papers in these proceedings provide an accurate cross section of the lectures presented at the workshop This book will be of interest to a wide group of pure and applied mathematicians   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 eigth 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 prob lems starting with problems for abstract operators up to spectral theory of ordi nary 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   **New Results in Operator Theory and Its Applications** Israel Gohberg,Yuri I. Lyubich,2012-12-06 This volume is dedicated to the memory of Israel Glazman an outstanding personality and distinguished mathematician the author of many remarkable papers and books in operator theory and its applications The present book opens with an essay devoted to Glazman s life and scientific achievements It focusses on the areas of his unusually wide interests and consists of 18 mathematical papers in spectral theory of differential operators and linear operators in Hilbert and Banach spaces analytic operator functions ordinary and partial differential equations functional equations mathematical physics nonlinear functional analysis approximation theory and optimization and mathematical statistics The book gives a

picture of the current state of some important problems in areas of operator theory and its applications and will be of interest to a wide group of researchers working in pure and applied mathematics *Nonselfadjoint Operator Algebras, Operator Theory, and Related Topics* Hari Bercovici,1998 This volume dedicated to Carl Pearcy on the occasion of his 60th birthday presents recent results in operator theory nonselfadjoint operator algebras measure theory and the theory of moments The articles on these subjects have been contributed by leading area experts many of whom were associated with Carl Pearcy as students or collaborators **Recent Developments in Operator Theory and Its Applications** I. Gohberg,P. Lancaster,P.N. Shivakumar,2012-12-06 The present volume contains the proceedings of the International Conference on Ap plications of Operator Theory held in Winnipeg Canada October 2nd to 6th 1994 which was organized by the Institute of Industrial Mathematical Sciences IIMS of the University of Manitoba At this conference 92 participants representing 15 countries par ticipated and 64 papers were presented This meeting was the second of a linked pair The first was a program of advanced instruction held at the Fields Institute Ontario followed by a research conference The first of these events gave rise to the volume Lectures on Operator Theory and its Applications published by the American Mathematical Society for the Fields Institute in 1995 These two events were the creation of the following Program Committee M A Dahleh M I T P A Fillmore Dalhousie B A Francis Toronto F Ghahramani Manitoba K Glover Cambridge I Gohberg Tel Aviv T Kailath Stanford P Lancaster Calgary Chair H Langer Vienna P N Shivakumar Manitoba A A Shkalikov Moscow B Simon Cal Tech H Widom Santa Cruz Both events focused on the following main topics Infinite matrices and projection methods linear operators on indefinite scalar product spaces differential operators and mathematical systems theory and control This volume contains a selection of papers in modern operator theory and its appli cations They are dedicated to recent achievements and many are written by leaders in the mentioned fields Parabolic Boundary Value Problems Samuil D. Eidelman,Nicolae V. Zhitarashu,2012-12-06 The present monograph is devoted to the theory of general parabolic boundary value problems The vastness of this theory forced us to take difficult decisions in selecting the results to be presented and in determining the degree of detail needed to describe their proofs In the first chapter we define the basic notions at the origin of the theory of parabolic boundary value problems and give various examples of illustrative and descriptive character The main part of the monograph Chapters II to V is devoted to a the detailed and systematic exposition of the L theory of parabolic 2 boundary value problems with smooth coefficients in Hilbert spaces of smooth functions and distributions of arbitrary finite order and with some natural appli cations of the theory Wishing to make the monograph more informative we included in Chapter VI a survey of results in the theory of the Cauchy problem and boundary value problems in the traditional spaces of smooth functions We give no proofs rather we attempt to compare different results and techniques Special attention is paid to a detailed analysis of examples illustrating and complementing the results for mulated The chapter is written in such a way that the reader interested only in the results of the classical theory of the Cauchy problem and boundary value problems may

concentrate on it alone skipping the previous chapters **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 **Measures of Noncompactness in Metric Fixed Point Theory** J.M. Ayerbe Toledano,T. Dominguez Benavides,G. Lopez Acedo,2012-12-06 What is clear and easy to grasp attracts us complications deter David Hilbert The material presented in this volume is based on discussions conducted in peri odically held seminars by the Nonlinear Functional Analysis research group of the University of Seville This book is mainly addressed to those working or aspiring to work in the field of measures of noncompactness and metric fixed point theory Special em phasis is made on the results in metric fixed point theory which were derived from geometric coefficients defined by means of measures of noncompactness and on the relationships between nonlinear operators which are contractive for different measures Several topics in these notes can be found either in texts on measures of noncompactness see AKPRSj BG or in books on metric fixed point theory see GK1 Sm Z Many other topics have come from papers where the authors of this volume have published the results of their research over the last ten years However as in any work of this type an effort has been made to revise many proofs and to place many others in a correct setting Our research was made possible by partial support of the D G I C y T and the Junta de Andalucia **Convolution Operators and Factorization of Almost Periodic Matrix Functions** Albrecht Böttcher,Yuri I. Karlovich,Ilya M. Spitkovsky,2012-12-06 Many problems of the engineering sciences physics and mathematics lead to con volution equations and their various modifications Convolution equations on a half line can be studied by having recourse to the methods and results of the theory of Toeplitz and Wiener Hopf operators Convolutions by integrable kernels have continuous symbols and the Cauchy singular integral operator is the most prominent example of a convolution operator with a piecewise continuous

symbol The Fredholm theory of Toeplitz and Wiener Hopf operators with continuous and piecewise continuous matrix symbols is well presented in a series of classical and recent monographs Symbols beyond piecewise continuous symbols have discontinuities of oscillating type Such symbols emerge very naturally For example difference operators are nothing but convolution operators with almost periodic symbols the operator defined by A **Orthogonal Systems and Convolution Operators** Robert Ellis,Israel Gohberg,2003 The main concern of this book is the distribution of zeros of polynomials that are orthogonal on the unit circle with respect to an indefinite weighted scalar or inner product The first theorem of this type proved by M G Krein was a far reaching generalization of G Szeg s result for the positive definite case A continuous analogue of that theorem was proved by Krein and H Langer These results as well as many generalizations and extensions are thoroughly treated in this book A unifying theme is the general problem of orthogonalization with invertible squares in modules over C algebras Particular modules that are considered in detail include modules of matrices matrix polynomials matrix valued functions linear operators and others One of the central features of this book is the interplay between orthogonal polynomials and their generalizations on the one hand and operator theory especially the theory of Toeplitz marices and operators and Fredholm and Wiener Hopf operators on the other hand The book is of interest to both engineers and specialists in analysis *Topics in Interpolation Theory* Bernd Fritzsche,Victor Katsnelson,Bernd Kirstein,2012-12-06 About one half of the papers in this volume are based on lectures which were pre sented at a conference at Leipzig University in August 1994 which was dedicated to Vladimir Petrovich Potapov He would have been eighty years old These have been supplemented by 1 Historical material based on reminiscences of former colleagues students and associates of V P Potapov 2 Translations of a number of important papers which serve to clarify the Potapov approach to problems of interpolation and extension as well as a number of related problems and methods and are relatively unknown in the West 3 Two expository papers which have been especially written for this volume For purposes of discussion it is convenient to group the technical papers in this volume into six categories We will now run through them lightly first listing the major theme then in parentheses the authors of the relevant papers followed by discussion Some supplementary references are listed at the end OT72 which appears frequently in this volume refers to Volume 72 in the series Operator Theory Advances and Applications It was dedicated to V P Potapov 1 Multiplicative decompositions Yu P Ginzburg M S Livsic I V Mikhailova V I Smirnov

Toeplitz Operators and Index Theory in Several Complex Variables Harald Upmeier,2012-12-06 4 1 Bergman Toeplitz Operators Over Bounded Domains 242 4 2 Hardy Toeplitz Operators Over Strictly Domains Pseudoconvex 250 Groupoid C Algebras 4 3 256 4 4 Hardy Toeplitz Operators Over Tubular Domains 267 4 5 Bergman Toeplitz Operators Over Tubular Domains 278 4 6 Hardy Toeplitz Operators Over Polycircular Domains 284 4 7 Bergman Toeplitz Operators Over Polycircular Domains 290 4 8 Hopf C Algebras 299 4 9 Actions and Coactions on C Algebras 310 4 10 Hardy Toeplitz Operators Over K circular Domains 316 4 11 Hardy Toeplitz Operators Over Symmetric Domains 325 4 12 Bergman Toeplitz Operators Over

In trod uction Toeplitz operators on the classical Hardy space on the I torus and the closely related Wiener Hopf operators on the half line form a central part of operator theory with many applications e g to function theory on the unit disk and to the theory of integral equations **Differential and Integral Operators** Israel C. Gohberg,Reinhard Mennicken,Christiane Tretter,2012-12-06 This and the next volume of the OT series contain the proceedings of the Work shop 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 eigth 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 prob lems starting with problems for abstract operators up to spectral theory of ordi nary 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 On Spectral Theory of Elliptic Operators Yuri V. Egorov,Vladimir A. Kondratiev,2012-12-06 It is well known that a wealth of problems of different nature applied as well as purely theoretic can be reduced to the study of elliptic equations and their eigen values During the years many books and articles have been published on this topic considering spectral properties of elliptic differential operators from different points of view This is one more book on these properties This book is devoted to the study of some classical problems of the spectral theory of elliptic differential equations The reader will find hardly any intersections with the books of Shubin Sh or Rempel Schulze ReSch or with the works cited there This book also has no general information in common with the books by Egorov and Shubin EgShu which also deal with spectral properties of elliptic operators There is nothing here on oblique derivative problems the reader will meet no pseudodifferential operators The main subject of the book is the estimates of eigenvalues especially of the first one and of eigenfunctions of elliptic operators The considered problems have in common the approach consisting of the application of the variational principle

and some a priori estimates usually in Sobolev spaces In many cases impor tant for physics and mechanics as well as for geometry and analysis this rather elementary approach allows one to obtain sharp results **Schur Functions, Operator Colligations, and Reproducing Kernel Pontryagin Spaces** Daniel Alpay,Aad Dijksma,James Rovnyak,Hendrik de Snoo,2012-12-06 Generalized Schur functions are scalar or operator valued holomorphic functions such that certain associated kernels have a finite number of negative squares This book develops the realization theory of such functions as characteristic functions of coisometric isometric and unitary colligations whose state spaces are reproducing kernel Pontryagin spaces This provides a modern system theory setting for the relationship between invariant subspaces and factorization operator models Krein Langer factorizations and other topics The book is intended for students and researchers in mathematics and engineering An introductory chapter supplies background material including reproducing kernel Pontryagin spaces complementary spaces in the sense of de Branges and a key result on defining operators as closures of linear relations The presentation is self contained and streamlined so that the indefinite case is handled completely parallel to the definite case __Linear Functional Equations. Operator Approach__ Anatolij Antonevich,2012-12-06 In this book we shall study linear functional equations of the form m bu x Lak X U Qk X f x 1 k l where U is an unknown function from a given space F X of functions on a set X Qk X X are given mappings ak and f are given functions Our approach is based on the investigation of the operators given by the left hand side of equa tion 1 In what follows such operators will be called functional operators We will pay special attention to the spectral properties of functional operators first of all to invertibility and the Noether property Since the set X the space F X the mappings Qk and the coefficients ak are arbitrary the class of operators of the form 1 is very rich and some of its individ ual representatives are related with problems arising in various areas of mathemat ics and its applications In addition to the classical theory of functional equations among such areas one can indicate the theory of functional differential equations with deviating argument the theory of nonlocal problems for partial differential equations the theory of boundary value problems for the equation of a vibrating string and equations of mixed type a number of problems of the general theory of operator algebras and the theory of dynamical systems the spectral theory of au tomorphisms of Banach algebras and other problems **M.G. Krein's Lectures on Entire Operators** Valentina Gorbachuk,2012-12-06 This book is devoted to the theory of entire Hermitian operators an important branch of functional analysis harmoniously combining the methods of operator theory and the theory of analytic functions This theory anables various problems of classical and modern analysis to be looked at from a uniform point of view In addition it serves as a source for setting and solving many new problems in both theories The three chapters of the book are based on the notes written by his students of M G Krein s lectures on the theory of entire operators with 1 1 deficiency index which he delivered in 1961 at the Pedagogical Institute of Odessa and on his works on the extension theory of Hermitian operators and the theory of analytic functions The theory is further developed in the direction of solving the problems set up by Krein at

ICM 66 in the first two appendices The first concerns the case of Hermitian operators with arbitrary defect numbers entire with respect to an ordinary gauge and to a generalized one as well The other focuses on the entire operators representable by differential operators The third appendix is the translation from Russian of the unpublished notes of Krein s lecture in which in particular the place of the theory of entire operators in the whole analysis is elucidated In Krein s mathematical heritage the theory of entire operators occupies a special position   Singular Integral Operators and Related Topics A. Böttcher,I. Gohberg,2012-12-06 This volume presents the proceedings of the Joint German Israeli Workshop on linear one dimensional singular integral equations held in Tel Aviv from March 1 10 1995 The volume contains a selection of papers in modern operator theory and its applications The main topics of the workshop were symbol calculus index formulas projection and quadrature methods for Toeplitz and singular integral operators with different symbols algebras generated by such operators and algebras generated by indempotents The other topics discussed were inverse scattering problems for differential operators distribution of zeros for orthogonal functions factorization of matrix functions and calculation of norms The book will be appreciated by a wide audience in the mathematical and engineering sciences   **Pseudo-Differential Operators, Singularities, Applications** I͡Uriĭ Vladimirovich Egorov,1997

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