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# **Matrix and Operator Valued Functions**

**The Vladimir Petrovich Potapov  
Memorial Volume**

**Edited by**

**I. Gohberg  
L.A. Sakhnovich**

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# Matrix Operator Valued Functions The Vladimir Petrovich Potapov Memorial Volume

**Daniel Alpay, Aad Dijksma, James  
Rovnyak, Hendrik de Snoo**



### **Matrix Operator Valued Functions The Vladimir Petrovich Potapov Memorial Volume:**

Matrix and Operator Valued Functions Israel Gohberg, L. A. Sakhnovich, 1994-01-01 This book is dedicated to the memory of an outstanding mathematician and personality Vladimir Petrovich Potapov who made important contributions to and exerted considerable influence in the areas of operator theory complex analysis and their points of juncture The book commences with insightful biographical material and then presents a collection of papers on different aspects of operator theory and complex analysis covering those recent achievements of the Odessa Kharkov school in which Potapov was very active The papers deal with interrelated problems and methods The main topics are the multiplicative structure of contractive matrix and operator functions operators in spaces with indefinite scalar products inverse problems for systems of differential equations interpolation and approximation problems for operator and matrix functions The book will appeal to a wide group of mathematicians and engineers and much of the material can be used for advanced courses and seminars

**Matrix and Operator Valued Functions** I. Gohberg, L.A. Sakhnovich, 2012-10-29 A collection of papers on different aspects of operator theory and complex analysis covering the recent achievements of the Odessa Kharkov school where Potapov was very active The book appeals to a wide group of mathematicians and engineers and much of the material can be used for advanced courses and seminars

Matrix and Operator Valued Functions I. Gohberg, L.A. Sakhnovich, 2012-12-06 This book is dedicated to the memory of an outstanding mathematician and personality Vladimir Petrovich Potapov who made important contributions to and exerted considerable influence in the areas of operator theory complex analysis and their points of juncture The book commences with insightful biographical material and then presents a collection of papers on different aspects of operator theory and complex analysis covering those recent achievements of the Odessa Kharkov school in which Potapov was very active The papers deal with interrelated problems and methods The main topics are the multiplicative structure of contractive matrix and operator functions operators in spaces with indefinite scalar products inverse problems for systems of differential equations interpolation and approximation problems for operator and matrix functions The book will appeal to a wide group of mathematicians and engineers and much of the material can be used for advanced courses and seminars

**Topics In Interpolation Theory** Harry Dym, 1997 Vladimir Petrovich Potapov as remembered by colleagues friends and former students On a minimum problem in function theory and the number of roots of an algebraic equation inside the unit disc On tangential interpolation in reproducing kernel Hilbert modules and applications Notes on a Nevanlinna Pick interpolation problem for generalized Nevanlinna functions The indefinite metric in the Schur interpolation problem for analytic functions IV Bitangential interpolation for upper triangular operators Bitangential interpolation for upper triangular operators when the Pick operator is strictly positive Integral representations of a pair of nonnegative operators and interpolation problems in the Stieltjes class On recovering a multiplicative integral from its modulus On Schur functions and Szeg orthogonal polynomials Hilbert spaces of entire functions as a  $J$  theory subject On

transformations of Potapov's fundamental matrix inequality An abstract interpolation problem and the extension theory of isometric operators On the theory of matrix valued functions belonging to the Smirnov class Integral representation of function of class  $K_a$  On the theory of entire matrix functions of exponential type Analogs of Nehari and Sarason theorems for character automorphic functions and some related questions The Blaschke Potapov factorization theorem and the theory of nonselfadjoint operators Weyl matrix circles as a tool for uniqueness in the theory of multiplicative representation of  $J$  inner functions On a criterion of positive definiteness Matrix boundary value problems with eigenvalue dependent boundary conditions The linear case Weyl Titchmarsh functions of the canonical periodical system of differential equations On boundary values of functions regular in a disk

### **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

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

Recent Advances in Inverse Scattering, Schur Analysis and Stochastic Processes Daniel Alpay, Bernd Kirstein, 2015-04-30 The volume is dedicated to Lev Sakhnovich who made fundamental contributions in operator theory and related topics Besides bibliographic material it includes a number of selected papers related to Lev Sakhnovich's research interests The papers are related to operator identities moment problems random matrices and linear stochastic systems

*Operator Theory and Analysis* H. Bart, I. Gohberg, A.C.M. Ran, 2012-12-06 On November 12 14 1997 a workshop was held at the Vrije

Universiteit Amsterdam on the occasion of the sixtieth birthday of M A Kaashoek The present volume contains the proceedings of this workshop The workshop was attended by 44 participants from all over the world participants came from Austria Belgium Canada Germany Ireland Israel Italy The Netherlands South Africa Switzerland Ukraine and the USA The atmosphere at the workshop was very warm and friendly There were 21 plenary lectures and each lecture was followed by a lively discussion The workshop was supported by the Vakgroep Wiskunde of the Vrije Universiteit the department of Mathematics and Computer Science of the Vrije Universiteit the Stichting VU Computer Science Mathematics Research Centre the Thomas Stieltjes Institute for Mathematics and the department of Economics of the Erasmus University Rotterdam The organizers would like to take this opportunity to express their gratitude for the support Without it the workshop would not have been so successful as it was

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**Series in Banach Spaces** Vladimir Kadets, 2012-12-06 Series of scalars vectors or functions are among the fundamental objects of mathematical analysis When the arrangement of the terms is fixed investigating a series amounts to investigating the sequence of its partial sums In this case the theory of series is a part of the theory of sequences which deals with their convergence asymptotic behavior etc The specific character of the theory of series manifests itself when one considers rearrangements permutations of the terms of a series which brings combinatorial considerations into the problems studied The phenomenon that a numerical series can change its sum when the order of its terms is changed is one of the most impressive facts encountered in a university analysis course The present book is devoted precisely to this aspect of the theory of series whose terms are elements of Banach as well as other topological linear spaces The exposition focuses on two complementary problems The first is to characterize those series in a given space that remain convergent and have the same sum for any rearrangement of their terms such series are usually called unconditionally convergent The second problem is when a series converges only for certain rearrangements of its terms in other words converges conditionally to describe its sum range i e the set of sums of all its convergent rearrangements

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 detailed and systematic exposition of the  $L$  theory of parabolic boundary value problems with smooth coefficients in Hilbert spaces of smooth functions and

distributions of arbitrary finite order and with some natural applications 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 formulated. 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 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 concrete 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.

*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 presented 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

**Operator Theory and Interpolation** Hari Bercovic, Ciprian I. Foias, 2012-12-06 Systems and control theories use sophisticated operator theoretical methods. They also provide new ideas and problems in operator theory. As a consequence the biannual MTNS Mathematical Theory of Networks and Systems conference is attended by many operator theorists. At the initiative of J. W. Helton and I. Gohberg an International Workshop on Operator Theory and Applications IWOTA has been organized since the early 80s as a satellite of MTNS. The articles in this volume originated from the IWOTA conference held at Indiana University Bloomington in June 1996. They represent most of the areas that were discussed at the workshop with

some emphasis on modern interpolation theory a topic which has seen much progress in recent years The contributions were as usual subject to a thorough refereeing process and will bring the reader to the forefront of current research in this area

**Partially Specified Matrices and Operators: Classification, Completion, Applications** Israel Gohberg, Marinus Kaashoek, Frederik Van Schagen, 2012-12-06 This book is devoted to a new direction in linear algebra and operator theory that deals with the invariants of partially specified matrices and operators and with the spectral analysis of their completions The theory developed centers around two major problems concerning matrices of which part of the entries are given and the others are unspecified The first is a classification problem and aims at a simplification of the given part with the help of admissible similarities The results here may be seen as a far reaching generalization of the Jordan canonical form The second problem is called the eigenvalue completion problem and asks to describe all possible eigenvalues and their multiplicities of the matrices which one obtains by filling in the unspecified entries Both problems are also considered in an infinite dimensional operator framework A large part of the book deals with applications to matrix theory and analysis namely to stabilization problems in mathematical system theory to problems of Wiener Hopf factorization and interpolation for matrix polynomials and rational matrix functions to the Kronecker structure theory of linear pencils and to non everywhere defined operators The eigenvalue completion problem has a natural associated inverse which appears as a restriction problem The analysis of these two problems is often simpler when a solution of the corresponding classification problem is available

Geometric Aspects of Functional Analysis Joram Lindenstrauss, Vitali Milman, 2012-12-06 This is the sixth published volume of the Israel Seminar on Geometric Aspects of Functional Analysis The previous volumes are 1983 84 published privately by Tel Aviv University 1985 86 Springer Lecture Notes Vol 1267 1986 87 Springer Lecture Notes Vol 1317 1987 88 Springer Lecture Notes Vol 1376 1989 90 Springer Lecture Notes Vol 1469 As in the previous volumes the central subject of this volume is Banach space theory in its various aspects In view of the spectacular development in infinite dimensional Banach space theory in recent years like the solution of the hyperplane problem the unconditional basic sequence problem and the distortion problem in Hilbert space it is quite natural that the present volume contains substantially more contributions in this direction than the previous volumes This volume also contains many important contributions in the traditional directions of this seminar such as probabilistic methods in functional analysis non linear theory harmonic analysis and especially the local theory of Banach spaces and its connection to classical convexity theory in  $\mathbb{R}^n$  The papers in this volume are original research papers and include an invited survey by Alexander Olevskii of Kolmogorov's work on Fourier analysis which was presented at a special meeting on the occasion of the 90th birthday of A N Kolmogorov We are very grateful to Mrs M Herberg for her generous help in many directions which made the publication of this volume possible Joram Lindenstrauss Vitali Milman 1992 1994 Operator Theory Advances and Applications Vol 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 periodically 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 emphasis 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

*Nonselfadjoint Operators and Related Topics* Avraham Feintuch, Israel Gohberg, 1994 This volume presents the Proceedings of the Joint U S Israel Workshop on Operator Theory and Its Applications held February 24-28 1992 at the Ben Gurion University of the Negev Beersheva This event was sponsored by the United States Israel Binational Science Foundation and the Ben Gurion University of the Negev and many outstanding experts in operator theory took part The workshop honored Professor Emeritus Moshe Livsic on the occasion of his retirement The volume contains a selection of papers covering a wide range of topics in modern operator theory and its applications from abstract operator theory to system theory and computers in operator models The papers treat linear and nonlinear problems and study operators from different abstract and concrete classes Many of the topics concern the area in which contributions of Moshe Livsic were extremely important This book will appeal to a wide audience of pure and applied mathematicians and engineers

**Toeplitz Operators and Index Theory in Several Complex Variables** Harald Upmeyer, 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 Symmetric Domains 361 5 Index Theory for Multivariable Toeplitz Operators 5 0 Introduction 371 5 1 K Theory for Topological Spaces 372 5 2 Index Theory for Strictly Pseudoconvex Domains 384 5 3 C Algebras K Theory for 394 5 4 Index Theory for Symmetric Domains 400 5 5 Index Theory for Tubular Domains 432 5 6 Index Theory for Polycircular Domains 455 References 462 Index of Symbols and Notations 471

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

**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 enables 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

**Lectures on Gaussian Integral Operators and Classical Groups** Yu. A. Neretin, 2011 This book is an elementary self contained introduction to some constructions of representation theory and related topics of differential geometry and analysis Topics covered include the theory of various Fourier like integral operators such as Segal Bargmann transforms Gaussian integral operators in  $L^2$  and in the Fock space integral operators with theta kernels the geometry of real and  $p$ -adic classical groups and symmetric spaces The heart of the book is the Weil representation of the symplectic group real and complex realizations relations with theta functions and modular forms  $p$ -adic and adelic constructions and representations in Hilbert spaces of holomorphic functions of several complex variables This book is addressed to graduate students and researchers in representation theory differential geometry and operator theory Prerequisites are standard university courses in linear algebra functional analysis and complex analysis

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