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**Continuous and Discrete
Fourier Transforms,
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Continuous And Discrete Fourier Transforms Extension Problems And Wiener Hopf Equations

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



Continuous And Discrete Fourier Transforms Extension Problems And Wiener Hopf Equations:

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Continuous and Discrete Fourier Transforms, Extension Problems and Wiener-Hopf Equations I.

Gohberg, 2012-12-06 **Operator Theory, Analysis and the State Space Approach** Harm Bart, Sanne ter Horst, André C.M. Ran, Hugo J. Woerdeman, 2018-12-30 This volume is dedicated to Rien Kaashoek on the occasion of his 80th birthday and celebrates his many contributions to the field of operator theory during more than fifty years In the first part of the volume biographical information and personal accounts on the life of Rien Kaashoek are presented Eighteen research papers by friends and colleagues of Rien Kaashoek are included in the second part Contributions by J Agler Z A Lykova N J Young J A Ball G J Groenewald S ter Horst H Bart T Ehrhardt B Silbermann J M Bogoya S M Grudsky I S Malysheva A B ttcher E Wegert Z Zhou Y Eidelman I Haimovici A E Frazho A C M Ran B Fritzsche B Kirstein C Madler J J Jaftha D B Janse van Rensburg P Junghanns R Kaiser J Nemcova M Petreczky J H van Schuppen L Plevnik P Semrl A Sakhnovich F O Speck S Sremac H J Woerdeman H Wolkowicz and N Vasilevski **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 Table of Contents Preface v Photograph of M A Kaashoek xiii Curriculum Vitae of M A Kaashoek xv List of Publications of M A Kaashoek xix I Gohberg Opening Address xxxi H Bart A C M Ran and H I Woerdeman Personal Reminiscences xxxv V Adamyan and R Mennicken On the Separation of Certain Spectral Components of Selfadjoint Operator Matrices 1 1 Introduction 1 2 Conditions for the Separation of Spectral Components 4 3 Example 9 References **Toeplitz Approach to Problems of the Uncertainty Principle** Alexei Poltoratski, 2015-03-07 The Uncertainty Principle in Harmonic Analysis UP is a classical yet rapidly developing area of modern mathematics Its first significant results and open problems date back to the work of Norbert Wiener Andrei Kolmogorov Mark Krein and Arne Beurling At present it encompasses a large part of mathematics from Fourier analysis frames and completeness problems for various systems of functions to spectral problems for differential operators and canonical systems These notes are devoted to the so called Toeplitz approach to UP which recently brought

solutions to some of the long standing problems posed by the classics After a short overview of the general area of UP the discussion turns to the outline of the new approach and its results Among those are solutions to Beurling's Gap Problem in Fourier analysis the Type Problem on completeness of exponential systems a problem by P. Lya and Levinson on sampling sets for entire functions Bernstein's problem on uniform polynomial approximation problems on asymptotics of Fourier integrals and a Toeplitz version of the Beurling-Malliavin theory One of the main goals of the book is to present new directions for future research opened by the new approach to the experts and young analysts A co-publication of the AMS and CBMS

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

Operator Extensions, Interpolation of Functions and Related Topics A. Gheondea, D. Timotin, F.H. Vasilescu, 2012-12-06 Since 1976 the Institute of Mathematics of the Romanian Academy formerly the Department of Mathematics of INCREST and the Faculty of Mathematics formerly the Faculty of Sciences of the University of Timi oara have organized several Con ferences on Operator Theory These Conferences were held yearly in Timi oara or in Timi oara and Herculane and beginning with 1985 they were held in Bucharest 1985 1986 in Timi oara 1988 and in Predeal 1990 At the beginning these Conferences answered the need of a part of the Romanian Mathematical Community of exploring other forms of survival after the dissolution of the Institute of Mathematics in 1975 Soon these meetings evolved to International Conferences with a broad participation and where important results in Operator Theory and Operator Algebras and their interplay with Complex Function Theory Differential Equations Mathematical Physics System Theory etc were presented The 14th Conference on Operator Theory was held between June 1st and June 5th 1992 at the University of Timi oara It was partially supported by the Institute of Mathematics of the Romanian Academy and by the Faculty of Mathematics of the University of Timi oara Another important contribution towards covering the costs of this meeting came from The Soros Foundation for an Open Society Without this generous help the

organizing of this event would be impossible Since 1980 the Proceedings of OT Conferences were published by Birkhauser Verlag in the series Operator Theory Advances and Applications The abstracts of the talks were collected in the Conference Report published by the University of Timi oara

Harmonic Analysis and Boundary Value Problems in the Complex Domain Mkhitar M. Djrbashian, 1993 As is well known the first decades of this century were a period of elaboration of new methods in complex analysis This elaboration had in particular one characteristic feature consisting in the interfusion of some concepts and methods of harmonic and complex analyses That interfusion turned out to have great advantages and gave rise to a vast number of significant results of which we want to mention especially the classical results on the theory of Fourier series in L^2 and their continual analog Plancherel's theorem on the Fourier transform in L^2 We want to note also two important Wiener and Paley theorems on parametric integral representations of a subclass of entire functions of exponential type in the Hardy space H^2 over a half plane Being under the strong influence of these results the author began in the fifties a series of investigations in the theory of integral representations of analytic and entire functions as well as in the theory of harmonic analysis in the complex domain These investigations were based on the remarkable properties of the asymptotics of the entire function $p(z)$ which was introduced into mathematical analysis by Mittag-Leffler for the case $p(z) = z$ In the process of investigation the scope of some classical results was essentially enlarged and the results themselves were evaluated

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

Time-Varying Discrete Linear Systems Aristide Halanay, Vlad Ionescu, 2012-12-06 Discrete time systems arise as a matter of course in modelling biological or economic processes For systems and control theory they are of major importance particularly in connection with digital control applications If sampling is performed in order to control periodic processes almost periodic systems are obtained This is a strong motivation to investigate the discrete time systems with time varying coefficients This research monograph contains a study of discrete time nodes the discrete counterpart of the theory elaborated by Bart Gohberg and Kaashoek for the continuous case discrete time Lyapunov and Riccati equations discrete time Hamiltonian systems in connection with input output operators and associated Hankel and Toeplitz operators All these tools aim to solve the problems of stabilization and attenuation of disturbances in the framework of H^2 and H^∞ control theory The book is the first of its kind to be devoted to

these topics and consists mainly of original recently obtained 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 **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 **Interpolation and Realization Theory with Applications to Control Theory** Vladimir Bolotnikov, Sanne ter Horst, André C.M. Ran, Victor

Vinnikov, 2019-04-08 This volume is devoted to Joseph A Joe Ball's contributions to operator theory and its applications and in celebration of his seventieth birthday Joe Ball's career spans over four and a half decades starting with his work on model theory and related topics for non contractions and operators on multiply connected domains Later on more applied operator theory themes appeared in his work involving factorization and interpolation for operator valued functions with extensive applications in system and control theory He has worked on nonlinear control time varying systems and more recently on multidimensional systems and noncommutative H theory on the unit ball and polydisk and more general domains and these are only the main themes in his vast oeuvre Fourteen research papers constitute the core of this volume written by mathematicians who have collaborated with Joe or have been influenced by his vast mathematical work A curriculum vitae a

publications list and a list of Joe Ball's PhD students are included in this volume as well as personal reminiscences by colleagues and friends. Contributions by Yu M Arlinskii, S Hassi, M Augat, J W Helton, I Klep, S McCullough, S Balasubramanian, U Wijesooriya, N Cohen, Q Fang, S Gorai, J Sarkar, G J Groenewald, S ter Horst, J Jaftha, A C M Ran, M A Kaashoek, F van Schagen, A Kheifets, Z A Lykova, N J Young, A E Ajibo, R T W Martin, A Ramanantoanina, M J Y Ou, H J Woerdeman, A van der Schaft, A Tannenbaum, T T Georgiou, J O Deasy and L Norton.

Harmonic Analysis, Partial Differential Equations, Complex Analysis, Banach Spaces, and Operator Theory (Volume 1) María Cristina Pereyra, Stefania Marcantognini, Alexander M. Stokolos, Wilfredo Urbina, 2016-09-15. Covering a range of subjects from operator theory and classical harmonic analysis to Banach space theory, this book contains survey and expository articles by leading experts in their corresponding fields and features fully refereed high quality papers exploring new results and trends in spectral theory, mathematical physics, geometric function theory and partial differential equations. Graduate students and researchers in analysis will find inspiration in the articles collected in this volume which emphasize the remarkable connections between harmonic analysis and operator theory. Another shared research interest of the contributors of this volume lies in the area of applied harmonic analysis where a new notion called chromatic derivatives has recently been introduced in communication engineering. The material for this volume is based on the 13th New Mexico Analysis Seminar held at the University of New Mexico April 3-4 2014 and on several special sections of the Western Spring Sectional Meeting at the University of New Mexico April 4-6 2014. During the event participants honored the memory of Cora Sadosky, a great mathematician who recently passed away and who made significant contributions to the field of harmonic analysis. Cora was an exceptional mathematician and human being. She was a world expert in harmonic analysis and operator theory, publishing over fifty-five research papers and authoring a major textbook in the field. Participants of the conference include new and senior researchers, recent doctorates as well as leading experts in the area.

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.

Differentiable Operators and Nonlinear Equations Victor Khatskevich, David Shoiykhiet, 2012-12-06. The need to study holomorphic mappings in infinite dimensional spaces in all likelihood arose for the

first time in connection with the development of nonlinear analysis A systematic study of integral equations with an analytic nonlinear part was started at the end of the 19th and the beginning of the 20th centuries by A Liapunov E Schmidt A Nekrasov and others Their research work was directed towards the theory of nonlinear waves and used mainly the undetermined coefficients and the majorant power series methods which subsequently have been refined and developed Parallel with these achievements the theory of functions of one or several complex variables was gradually enriched with more significant and subtle results The present book is a first step towards establishing a bridge between nonlinear analysis nonlinear operator equations and the theory of holomorphic mappings on Banach spaces The work concludes with a brief exposition of the theory of spaces with indefinite metrics and some relevant applications of the holomorphic mappings theory in this setting In order to make this book accessible not only to specialists but also to students and engineers the authors give a complete account of definitions and proofs and also present relevant prerequisites from functional analysis and topology

Contents Preliminaries Differential calculus in normed spaces Integration in normed spaces Holomorphic analytic operators and vector functions on complex Banach spaces Linear operators Nonlinear equations with differentiable operators Nonlinear equations with holomorphic operators Banach manifolds Non regular solutions of nonlinear equations Operators on spaces with indefinite metric References List of Symbols Subject Index

Well-Posedness of Parabolic Difference Equations A. Ashyralyev, P.E. Sobolevskii, 2012-12-06 A well known and widely applied method of approximating the solutions of problems in mathematical physics is the method of difference schemes Modern computers allow the implementation of highly accurate ones hence their construction and investigation for various boundary value problems in mathematical physics is generating much current interest The present monograph is devoted to the construction of highly accurate difference schemes for parabolic boundary value problems based on Pad approximations The investigation is based on a new notion of positivity of difference operators in Banach spaces which allows one to deal with difference schemes of arbitrary order of accuracy Establishing coercivity inequalities allows one to obtain sharp that is two sided estimates of convergence rates The proofs are based on results in interpolation theory of linear operators This monograph will be of value to professional mathematicians as well as advanced students interested in the fields of functional analysis and partial differential equations

Floquet Theory for Partial Differential Equations P.A. Kuchment, 2012-12-06 Linear differential equations with periodic coefficients constitute a well developed part of the theory of ordinary differential equations 17 94 156 177 178 272 389 They arise in many physical and technical applications 177 178 272 A new wave of interest in this subject has been stimulated during the last two decades by the development of the inverse scattering method for integration of nonlinear differential equations This has led to significant progress in this traditional area 27 71 72 111 119 250 276 277 284 286 287 312 313 337 349 354 392 393 403 404 At the same time many theoretical and applied problems lead to periodic partial differential equations We can mention for instance quantum mechanics 14 18 40 54 60 91 92 107 123 157 160 192 193 204 315 367 412

414 415 417 hydrodynamics 179 180 elasticity theory 395 the theory of guided waves 87 89 208 300 homogenization theory 29 41 348 direct and inverse scattering 175 206 216 314 388 406 408 parametric resonance theory 122 178 and spectral theory and spectral geometry 103 105 381 382 389 There is a significant distinction between the cases of ordinary and partial differential periodic equations The main tool of the theory of periodic ordinary differential equations is the so called Floquet theory 17 94 120 156 177 267 272 389 Its central result is the following theorem sometimes called Floquet Lyapunov theorem 120 267 Holomorphic Spaces Sheldon Jay Axler, John E. McCarthy, Donald Sarason, 1998-05-28 Expository articles describing the role Hardy spaces Bergman spaces Dirichlet spaces and Hankel and Toeplitz operators play in modern analysis *Classes of Linear Operators* Israel Gohberg, Seymour Goldberg, Marius A. Kaashoek, 2013-03-09 These two volumes constitute texts for graduate courses in linear operator theory The reader is assumed to have a knowledge of both complex analysis and the first elements of operator theory The texts are intended to concisely present a variety of classes of linear operators each with its own character theory techniques and tools For each of the classes various differential and integral operators motivate or illustrate the main results Although each class is treated separately and the first impression may be that of many different theories interconnections appear frequently and unexpectedly The result is a beautiful unified and powerful theory The classes we have chosen are representatives of the principal important classes of operators and we believe that these illustrate the richness of operator theory both in its theoretical developments and in its applications Because we wanted the books to be of reasonable size we were selective in the classes we chose and restricted our attention to the main features of the corresponding theories However these theories have been updated and enhanced by new developments many of which appear here for the first time in an operator theory text In the selection of the material the taste and interest of the authors played an important role

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