Partial Differential Equations and Spectral Theory

PDE2000 Conference in Clausthal, Germany

Michael Demuth
Bert-Wolfgang Schulze
Editors

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Israel Gohberg

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  Partial Differential Equations and Spectral Theory Michael Demuth,Bert-Wolfgang Schulze,Ingo Witt,2011-02-01 This volume collects six articles on selected topics at the frontier between partial differential equations and spectral theory written by leading specialists in their respective field The articles focus on topics that are in the center of attention of current research with original contributions from the authors They are written in a clear expository style that makes them accessible to a broader audience The articles contain a detailed introduction and discuss recent progress provide additional motivation and develop the necessary tools Moreover the authors share their views on future developments hypotheses and unsolved problems   **Partial Differential Equations and Spectral Theory** Michael Demuth,Bert-Wolfgang Schulze,2012-12-06 The intention of the international conference PDE2000 was to bring together specialists from different areas of modern analysis mathematical physics and geometry to discuss not only the recent progress in their own fields but also the interaction between these fields The special topics of the conference were spectral and scattering theory semiclassical and asymptotic analysis pseudodifferential operators and their relation to geometry as well as partial differential operators and their connection to stochastic analysis and to the theory of semigroups The scientific advisory board of the conference in Clausthal consisted of M Ben Artzi Jerusalem Chen Hua Peking M Demuth Clausthal T Ichinose Kanazawa L Rodino Turin B W Schulze Potsdam and J Sj strand Paris The book is aimed at researchers in mathematics and mathematical physics with interests in partial differential equations and all its related fields   **Semigroups of Operators and Spectral Theory** S Kantorovitz,1995-06-19 This book presents some aspects of the theory of semigroups of operators mostly from the point of view of its interaction withspectral theory In order to make it self contained a concise description of the basic theory of semigroups with complete proofs is included in Part I Some of the author s recent results such as the construction of the Hille Yosida space for general operators the semi simplicity manifold and a Taylor formula for semigroups as functions of their generator are also included in Part I Part II describes recent generalizations most of them in bookform for the first time including pre semigroups semi simplicity manifolds in situations more general than that considered in Part I semigroups of unbounded symmetric operators and an analogous result on local cosine families and semi analytic vectors It is hoped that this book will inspire more research in this field This book will be of particular interest to graduate students and researchers working operator theory and its applications   Recent Advances in Operator Theory and Its Applications Israel Gohberg,2005-09-16 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   **Partial Differential Equations and Spectral**

Theory Michael Demuth,Bert-Wolfgang Schulze,2001 The intention of the international conference PDE2000 was to bring together specialists from different areas of modern analysis mathematical physics and geometry to discuss not only the recent progress in their own fields but also the interaction between these fields The special topics of the conference were spectral and scattering theory semiclassical and asymptotic analysis pseudodifferential operators and their relation to geometry as well as partial differential operators and their connection to stochastic analysis and to the theory of semigroups The scientific advisory board of the conference in Clausthal consisted of M Ben Artzi Jerusalem Chen Hua Peking M Demuth Clausthal T Ichinose Kanazawa L Rodino Turin B W Schulze Potsdam and J Sj strand Paris The book is aimed at researchers in mathematics and mathematical physics with interests in partial differential equations and all its related fields

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 **Mathematical Physics, Spectral Theory and Stochastic Analysis** Michael Demuth,Werner Kirsch,2014-07-08 This volume presents self contained survey articles on modern research areas written by experts in their fields The topics are located at the interface of spectral theory theory of partial differential operators stochastic analysis and mathematical physics The articles are accessible to graduate students and researches from other fields of mathematics or physics while also being of value to experts as they report on the state of the art in the respective fields **Nonlinear Hyperbolic Equations, Spectral Theory, and Wavelet Transformations** Sergio Albeverio,2003-10-24 This volume focuses on recent developments in non linear and hyperbolic equations In the first contribution the singularities of the solutions of several classes of non linear partial differential

equations are investigated Applications concern the Monge Amp re equation quasi linear systems arising in fluid mechanics as well as integro differential equations for media with memory There follows an article on L_p L_q decay estimates for Klein Gordon equations with time dependent coefficients explaining in particular the influence of the relation between the mass term and the wave propagation speed The next paper addresses questions of local existence of solutions blow up criteria and C 8 regularity for quasilinear weakly hyperbolic equations Spectral theory of semibounded selfadjoint operators is the topic of a further contribution providing upper and lower bounds for the bottom eigenvalue as well as an upper bound for the second eigenvalue in terms of capacitary estimates TOC Contributions Nonlinear PDE Singularities Propagation Applications P R Popivanov From Wave to Klein Gordon Type Decay Rates F Hirosawa and M Reissig Local Solutions to Quasilinear Qeakly Hyperbolic Differential Equations M Dreher S M g pseudo differential Calculus of Manifolds F Baldus Domain Perturbations and Capacity in General Hilbert Spaces and Applications to Spectral Theory A Noll An Interpolation Family between Gabor and Wavelet Transformations B Nazaret and M Holschneider Formes de Torsion Analytique et Fibrations Singuli res Xiaonan Ma Regularisation of Secondary Characteristic Classes and Unusual Index Formulas for Operator Valued Symbols G Rozenblum **New Difference Schemes for Partial Differential Equations** Allaberen Ashyralyev,Pavel E. Sobolevskii,2012-12-06 The present monograph is devoted to the construction and investigation of the new high order of accuracy difference schemes of approximating the solutions of regular and singular perturbation boundary value problems for partial differential equations The construction is based on the exact difference scheme and Taylor s decomposition on the two or three points This approach permitted essentially to extend to a class of problems where the theory of difference methods is applicable Namely now it is possible to investigate the differential equations with variable coefficients and regular and singular perturbation boundary value problems The investigation is based on new coercivity inequalities The book will be of value to professional mathematicians as well as advanced students in the fields of numerical analysis functional analysis and ordinary and partial differential equations **Spectral Methods for Operators of Mathematical Physics** Jan Janas,Pavel Kurasov,Sergei Naboko,2012-12-06 This book presents recent results in the following areas spectral analysis of one dimensional Schr dinger and Jacobi operators discrete WKB analysis of solutions of second order difference equations and applications of functional models of non selfadjoint operators Several developments treated appear for the first time in a book It is addressed to a wide group of specialists working in operator theory or mathematical physics **Operator Calculus and Spectral Theory** M. Demuth,B.W. Schulze,B. Gramsch,2012-12-06 **Inverse Problems and Spectral Theory** Hiroshi Isozaki,2004 This volume grew out of a workshop on spectral theory of differential operators and inverse problems held at the Research Institute for Mathematical Sciences Kyoto University The gathering of nearly 100 participants at the conference suggests the increasing interest in this field of research The focus of the book is on spectral theory for differential operators and related inverse problems It includes selected topics from the following areas electromagnetism

elasticity the Schrodinger equation differential geometry and numerical analysis The material is suitable for graduate students and researchers interested in inverse problems and their applications   **Analysis as a Tool in Mathematical Physics** Pavel Kurasov,Ari Laptev,Sergey Naboko,Barry Simon,2020-07-14 Boris Pavlov 1936 2016 to whom this volume is dedicated was a prominent specialist in analysis operator theory and mathematical physics As one of the most influential members of the St Petersburg Mathematical School he was one of the founders of the Leningrad School of Non self adjoint Operators This volume collects research papers originating from two conferences that were organized in memory of Boris Pavlov Spectral Theory and Applications held in Stockholm Sweden in March 2016 and Operator Theory Analysis and Mathematical Physics OTAMP2016 held at the Euler Institute in St Petersburg Russia in August 2016 The volume also includes water color paintings by Boris Pavlov some personal photographs as well as tributes from friends and colleagues

  Algebraic and Analytic Microlocal Analysis Michael Hitrik,Dmitry Tamarkin,Boris Tsygan,Steve Zelditch,2018-12-19 This book presents contributions from two workshops in algebraic and analytic microlocal analysis that took place in 2012 and 2013 at Northwestern University Featured papers expand on mini courses and talks ranging from foundational material to advanced research level papers and new applications in symplectic geometry mathematical physics partial differential equations and complex analysis are discussed in detail Topics include Procesi bundles and symplectic reflection algebras microlocal condition for non displaceability polarized complex manifolds nodal sets of Laplace eigenfunctions geodesics in the space of K hler metrics and partial Bergman kernels This volume is a valuable resource for graduate students and researchers in mathematics interested in understanding microlocal analysis and learning about recent research in the area

  Spectral Theory of Operator Pencils, Hermite-Biehler Functions, and their Applications Manfred Möller,Vyacheslav Pivovarchik,2015-06-11 The theoretical part of this monograph examines the distribution of the spectrum of operator polynomials focusing on quadratic operator polynomials with discrete spectra The second part is devoted to applications Standard spectral problems in Hilbert spaces are of the form A I for an operator A and self adjoint operators are of particular interest and importance both theoretically and in terms of applications A characteristic feature of self adjoint operators is that their spectra are real and many spectral problems in theoretical physics and engineering can be described by using them However a large class of problems in particular vibration problems with boundary conditions depending on the spectral parameter are represented by operator polynomials that are quadratic in the eigenvalue parameter and whose coefficients are self adjoint operators The spectra of such operator polynomials are in general no more real but still exhibit certain patterns The distribution of these spectra is the main focus of the present volume For some classes of quadratic operator polynomials inverse problems are also considered The connection between the spectra of such quadratic operator polynomials and generalized Hermite Biehler functions is discussed in detail Many applications are thoroughly investigated such as the Regge problem and damped vibrations of smooth strings Stieltjes strings beams star graphs of strings and

quantum graphs Some chapters summarize advanced background material which is supplemented with detailed proofs With regard to the reader s background knowledge only the basic properties of operators in Hilbert spaces and well known results from complex analysis are assumed *Determining Spectra in Quantum Theory* Michael Demuth,M. Krishna,2006-09-12 Themainobjectiveofthisbookistogiveacollectionofcriteriaavailablein the spectral theory of selfadjoint operators and to identify the spectrum and its components in the Lebesgue decomposition Many of these criteria were published in several articles in di erent journals We collected them added some and gave some overview that can serve as a platform for further research activities Spectral theory of Schr odinger type operators has a long history however the most widely used methods were limited in number For any selfadjoint operatorA on a separable Hilbert space the spectrum is identi ed by looking atthetotalspectralmeasureassociatedwithit oftenstudyingsuchameasure meant looking at some transform of the measure The transforms were of the form f A f which is expressible by the spectral theorem as x d x for some nite measure The two most widely used functions were the sx 1 exponential function x e and the inverse function x x z These functions are usable in the sense that they can be manipulated with respect to addition of operators which is what one considers most often in the spectral theory of Schr odinger type operators Starting with this basic structure we look at the transforms of measures from which we can recover the measures and their components in Chapter 1 In Chapter 2 we repeat the standard spectral theory of selfadjoint op ators The spectral theorem is given also in the Hahn Hellinger form Both Chapter 1 and Chapter 2 also serve to introduce a series of de nitions and notations as they prepare the background which is necessary for the criteria in Chapter 3 **Nonlinear Waves: A Geometrical Approach** Petar Radoev Popivanov,Angela Slavova,2018-11-16 This volume provides an in depth treatment of several equations and systems of mathematical physics describing the propagation and interaction of nonlinear waves as different modifications of these the KdV equation Fornberg Whitham equation Vakhnenko equation Camassa Holm equation several versions of the NLS equation Kaup Kupershmidt equation Boussinesq paradigm and Manakov system amongst others as well as symmetrizable quasilinear hyperbolic systems arising in fluid dynamics Readers not familiar with the complicated methods used in the theory of the equations of mathematical physics functional analysis harmonic analysis spectral theory topological methods a priori estimates conservation laws can easily be acquainted here with different solutions of some nonlinear PDEs written in a sharp form waves with their geometrical visualization and their interpretation In many cases explicit solutions waves having specific physical interpretation solitons kinks peakons ovals loops rogue waves are found and their interactions are studied and geometrically visualized To do this classical methods coming from the theory of ordinary differential equations the dressing method Hirota s direct method and the method of the simplest equation are introduced and applied At the end the paradifferential approach is used This volume is self contained and equipped with simple proofs It contains many exercises and examples arising from the applications in mechanics physics optics and quantum mechanics **Progress in Holomorphic Dynamics** Hartje Kriete,1998-05-20 In the

last few decades complex dynamical systems have received widespread public attention and emerged as one of the most active fields of mathematical research Starting where other monographs in the subject end Progress in Holomorphic Dynamics advances the theoretical aspects and recent results in complex dynamical systems with particular emphasis on Siegel discs Organized into four parts the papers in this volume grew out of three workshops two hosted by the Georg August Universit t G ttingen and one at the Mathematisches Forschungsinstitut Oberwolfach Part I addresses linearization The authors review Yoccoz s proof that the Brjuno condition is the optimal condition for linearizability of indifferent fixed points and offer a treatment of Perez Marco s refinement of Yoccoz s work Part II discusses the conditions necessary for the boundary of a Siegel disc to contain a critical point builds upon Herman s work and offers a survey of the state of the art regarding the boundaries of Siegel discs Part III deals with the topology of Julia sets with Siegel discs and contains a remarkable highlight C L Petersen establishes the existence of Siegel discs of quadratic polynomials with a locally connected boundary Keller taking a different approach explains the relations between locally connected real Julia sets with Siegel discs and the abstract concepts of kneading sequences and itineraries Part IV closes the volume with four papers that review the different directions of present research in iteration theory It includes discussions on the relations between commuting rational functions and their Julia sets interactions between the iteration of polynomials and the iteration theory of entire transcendental functions a deep analysis of the topology of the limbs of the Mandelbrot set and an overview of complex dynamics in higher dimensions   *Operator Theoretical Methods and Applications to Mathematical Physics* Israel Gohberg,Antonio, F. dos Santos,Frank-Olme Speck,Francisco Sepulveda Teixeira,Wolfgang L. Wendland,2012-12-06 This volume is devoted to the life and work of the applied mathematician Professor Erhard Meister 1930 2001 He was a member of the editorial boards of this book series Operator The ory Advances and Applications as well as of the journal Integral Equations and Operator Theory both published by Birkhauser now part of Springer Verlag Moreover he played a decisive role in the foundation of these two series by helping to establish contacts between Birkhauser and the founder and present chief editor of this book series after his emigration from Moldavia in 1974 The volume is divided into two parts Part A contains reminiscences about the life of E Meister including a short biography and an exposition of his professional work Part B displays the wide range of his scientific interests through eighteen original papers contributed by authors with close scientific and personal relations to E Meister We hope that a great part of the numerous features of his life and work can be re discovered from this book   **Linear Theory of Colombeau Generalized Functions** M Nedeljkov,S Pilipovic,D Scarpalezos,1998-05-20 Results from the now classical distribution theory involving convolution and Fourier transformation are extended to cater for Colombeau s generalized functions Indications are given how these particular generalized functions can be used to investigate linear equations and pseudo differential operators Furthermore applications are also given to problems with nonregular data

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