Numerical Analysis for Integral and Related Operator Equations: OT'52 (Operator Theory: Advances and Applications)

Prössdorf

Maria Amélia Bastos,Israel Gohberg,Amarino Brites Lebre,Frank-Olme Speck

Numerical Analysis for Integral and Related Operator Equations Siegfried Prössdorf, Bernd Silbermann, 1991-08-15 Numerical Analysis for Integral and Related Operator Equations Prössdorf, Bernd Silbermann, 1991-11-01 Numerical Analysis for Integral and Related Operator Equations Siegfried Prössdorf, Bernd Silbermann, 1991 Periodic Integral and Pseudodifferential Equations with Numerical Approximation Jukka Saranen, Gennadi Vainikko, 2013-03-09 Classical boundary integral equations arising from the potential theory and acoustics Laplace and Helmholtz equations are derived Using the parametrization of the boundary these equations take a form of periodic pseudodifferential equations A general theory of periodic pseudodifferential equations and methods of solving are developed including trigonometric Galerkin and collocation methods their fully discrete versions with fast solvers quadrature and spline based methods The theory of periodic pseudodifferential operators is presented in details with preliminaries Fredholm operators periodic distributions periodic Sobolev spaces and full proofs This self contained monograph can be used as a textbook by graduate postgraduate students It also contains a lot of carefully chosen exercises C\* - Algebras and Numerical Analysis Ronald Hagen, Steffen Roch, Bernd Silbermann, 2000-09-07 Analyzes algebras of concrete approximation methods detailing prerequisites local principles and lifting theorems Covers fractality and Fredholmness Explains the phenomena of the asymptotic splitting of the singular values and more **Weighted Polynomial Approximation and** Numerical Methods for Integral Equations Peter Junghanns, Giuseppe Mastroianni, Incoronata Notarangelo, 2021-08-10 The book presents a combination of two topics one coming from the theory of approximation of functions and integrals by interpolation and guadrature respectively and the other from the numerical analysis of operator equations in particular of integral and related equations The text focusses on interpolation and quadrature processes for functions defined on bounded and unbounded intervals and having certain singularities at the endpoints of the interval as well as on numerical methods for Fredholm integral equations of first and second kind with smooth and weakly singular kernel functions linear and nonlinear Cauchy singular integral equations and hypersingular integral equations. The book includes both classic and very recent results and will appeal to graduate students and researchers who want to learn about the approximation of functions and the numerical solution of operator equations in particular integral equations A Brief Introduction to Numerical Analysis Eugene E. Tyrtyshnikov, 2012-12-06 Probably I ought to explain why one more book on numerical methods can be useful Without any doubt there are many quite good and excellent books on the subject But I know definitely that I did not realize this when I was a student In this book my first desire was to present those lectures that I wished I would have heard when I was a student Besides in spite of the profusion of textbooks introductory courses and monographs on numerical methods some of them are too elementary some are too difficult some are far too overwhelmed with applications and most of them are too lengthy for those who want to see the whole picture in a short time I hope that the brevity of the course left me no chance to obscure the beauty and depth of mathematical ideas behind the theory and methods of numerical analysis I am convinced that such a book should be very concise indeed It should be thoroughly structured giving information in short sections which ideally are a half page in length Equally important the book should not give an impression that nothing is left to work on in this field Any time it becomes possible to say something about modern development and recent results I do try to find time and place for this Numerical Analysis Walter Gautschi, 2011-12-06 Revised and updated this second edition of Walter Gautschi's successful Numerical Analysis explores computational methods for problems arising in the areas of classical analysis approximation theory and ordinary differential equations among others Topics included in the book are presented with a view toward stressing basic principles and maintaining simplicity and teachability as far as possible while subjects requiring a higher level of technicality are referenced in detailed bibliographic notes at the end of each chapter Readers are thus given the guidance and opportunity to pursue advanced modern topics in more depth Along with updated references new biographical notes and enhanced notational clarity this second edition includes the expansion of an already large collection of exercises and assignments both the kind that deal with theoretical and practical aspects of the subject and those requiring machine computation and the use of mathematical software Perhaps most notably the edition also comes with a complete solutions manual carefully developed and polished by the author which will serve as an exceptionally valuable Matrix and Operator Valued Functions I. Gohberg, L.A. Sakhnovich, 2012-12-06 This book is resource for instructors 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 Lectures on Operator Theory and Its Applications Albrecht Böttcher, 1996 Much of the importance of mathematics lies in its ability to provide theories which are useful in widely different fields of endeavour A good example is the large and amorphous body of knowledge known as the theory of linear operators or operator theory which came to life about a century ago as a theory to encompass properties common to matrix differential and integral operators Thus it is a primary purpose of operator theory to provide a coherent body of knowledge which can explain phenomena common to the enormous variety of problems in which such linear operators play a part The theory is a vital part of functional analysis whose methods and techniques are one of the major advances of twentieth century mathematics and now play a pervasive

role in the modeling of phenomena in probability imaging signal processing systems theory etc as well as in the more traditional areas of theoretical physics and mechanics This book is based on lectures presented at a meeting on operator theory and its applications held at the Fields Institute in 1994 Concrete Operators, Spectral Theory, Operators in Harmonic Analysis and Approximation Manuel Cepedello Boiso, Håkan Hedenmalm, Marinus A. Kaashoek, Alfonso Montes Rodríguez, Sergei Treil, 2013-11-04 This book contains a collection of research articles and surveys on recent developments on operator theory as well as its applications covered in the IWOTA 2011 conference held at Sevilla University in the summer of 2011 The topics include spectral theory differential operators integral operators composition operators Toeplitz operators and more The book also presents a large number of techniques in operator theory **Mathematical Aspects of Boundary Element Methods** Marc Bonnet, Anna-Margarete Sandig, Wolfgang L Wendland, 2024-07-05 Boundary element methods relate to a wide range of engineering applications including fluid flow fracture analysis geomechanics elasticity and heat transfer Thus new results in the field hold great importance not only to researchers in mathematics but to applied mathematicians physicists and engineers A two day minisymposium Mathematical Aspects of Boundary Element Methods at the IABEM conference in May 1998 brought together top rate researchers from around the world including Vladimir Maz ya to whom the conference was dedicated Focusing on the mathematical and numerical analysis of boundary integral operators this volume presents 25 papers contributed to the symposium Mathematical Aspects of Boundary Element Methods provides up to date research results from the point of view of both mathematics and engineering The authors detail new results such as on nonsmooth boundaries and new methods including domain decomposition and parallelization preconditioned iterative techniques multipole expansions higher order boundary elements and approximate approximations Together they illustrate the connections between the modeling of applied problems the derivation and analysis of corresponding boundary integral equations and their efficient numerical solutions **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 problems starting with problems for abstract operators up to spectral theory of ordinary 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 **Operator Algebras, Operator Theory and Applications** Maria Amélia Bastos, Israel Gohberg, Amarino Brites Lebre, Frank-Olme Speck, 2008-05-27 This book is composed of three survey lecture courses and some twenty invited research papers presented to WOAT 2006 the International Summer School and Workshop on Operator Algebras Operator Theory and Applications held at Lisbon in September 2006 The volume reflects recent developments in the area of operator algebras and their interaction with research fields in complex analysis and operator theory The book is aimed at postgraduates and researchers in these fields **Volterra Integral Equations** Hermann Brunner, 2017-01-20 See publisher description **Recent Developments in Operator Theory and Its Applications** I. Gohberg, Peter Lancaster, P.N. Shivakumar, 1996-05-30 The papers selected for publication here many of them written by leaders in the field bring readers up to date on recent achievements in modern operator theory and applications The book s subject matter is of practical use to a wide audience in mathematical and engineering sciences

**Approximation of Additive Convolution-Like Operators** Victor Didenko, Bernd Silbermann, 2008-09-19 Various aspects of numerical analysis for equations arising in boundary integral equation methods have been the subject of several books published in the last 15 years 95 102 183 196 198 Prominent examples include various classes of o dimensional singular integral equations or equations related to single and double layer potentials Usually a mathematically rigorous foundation and error analysis for the approximate solution of such equations is by no means an easy task One reason is the fact that boundary integral operators generally are neither integral operators of the formidentity plus compact operatornor identity plus an operator with a small norm Consequently existing standard theories for the numerical analysis of Fredholm integral equations of the second kind are not applicable In the last 15 years it became clear that the Banach algebra technique is a powerful tool to analyze the stability problem for relevant approximation methods 102 103 183 189 The starting point for this approach is the observation that the stability problem is an invertibility problem in a certain BanachorC algebra As a rule this algebra is very complicated and one has to nd relevant subalgebras to use such tools as local principles and representation theory However invarious applications thereoften arise continuous operators acting on complex Banach spaces that are not linear but only additive i e A x y Ax Ay for all x y from a given Banach space It is easily seen that additive operators 1 are R linear provided they are continuous Acta Numerica 1992: Volume 1 Arieh Iserles, 1992-04-24 Acta Numerica is an annual volume presenting survey papers in numerical analysis Each year the editorial board selects significant topics and invites papers from authors who have made notable contributions to the development of that topic The articles are intended to summarize the field at a level accessible to graduate students and researchers Acta Numerica is a

valuable tool not only for researchers and professionals wishing to develop their understanding of the subject and follow developments but also as an advanced teaching aid at colleges and universities This volume was originally published in 1992

Measures of Noncompactness and Condensing Operators Akhmerov, Kamenskii, Potapov, Rodkina, Sadovskii, 2013-11-21 A condensing or densifying operator is a mapping under which the image of any set is in a certain sense more compact than the set itself The degree of noncompactness of a set is measured by means of functions called measures of noncompactness The contractive maps and the compact maps i e in this Introduction the maps that send any bounded set into a relatively compact one in the main text the term compact will be reserved for the operators that in addition to having this property are continuous i e in the authors terminology for the completely continuous operators are condensing For contractive maps one can take as measure of noncompactness the diameter of a set while for compact maps can take the indicator function of a family of non relatively compact sets The operators of the form F x G x x where G is contractive in the first argument and compact in the second are also condensing with respect to some natural measures of noncompactness. The linear condensing operators are characterized by the fact that almost all of their spectrum is included in a disc of radius smaller than one The examples given above show that condensing operators are a sufficiently typical phenomenon in various applications of functional analysis for example in the theory of differential and integral equations As is turns out the condensing operators have properties similar to the compact ones **Introduction to Large Truncated Toeplitz Matrices** Albrecht Böttcher, Bernd Silbermann, 1999 Applying functional analysis and operator theory to some concrete asymptotic problems of linear algebra this book contains results on the stability of projection methods deals with asymptotic inverses and Moore Penrose inversion of large Toeplitz matrices and embarks on the asymptotic behaviour of the norms of inverses the pseudospectra the singular values and the eigenvalues of large Toeplitz matrices. The approach is heavily based on Banach algebra techniques and nicely demonstrates the usefulness of C algebras and local principles in numerical analysis including classical topics as well as results and methods from the last few years Though employing modern tools the exposition is elementary and points out the mathematical background behind some interesting phenomena encountered with large Toeplitz matrices Accessible to readers with basic knowledge in functional analysis the book addresses graduates teachers and researchers and should be of interest to everyone who has to deal with infinite matrices Toeplitz or not and their large truncations

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