Carlos S. Kubrusly

Hilbert Space Operators
A Problem Solving Approach

Hilbert Space Operators A Problem Solving Approach

V. P. Tanana

Hilbert Space Operators A Problem Solving Approach:

   Hilbert Space Operators Carlos S. Kubrusly,2003-08-07 This self contained treatment of bounded linear operators on a Hilbert space provides an examination of the theory from a problem solving viewpoint Each chapter interweaves theoretical results with a number of problems ranging from simple yet instructive exercises to open questions at the forefront of current research complete solutions to all stated problems are provided Written in a motivating and rigorous style the text covers much of the classical theory it begins with the basics of invariant subspaces linear operators convergence shifts and decompositions and then proceeds to hyponormal operators spectral properties and paranormal and quasireducible operators The book concludes with a detailed presentation of the Lomonosov Theorem on nontrivial hyperinvariant subspaces for compact operators Some knowledge of elementary functional analysis and a familiarity with the basics of operator theory are all that is required While this problem solving approach to the study of Hilbert space operators is primarily aimed at graduate students it will benefit researchers and working scientists as well given the far reaching applications of the subject to pure and applied mathematics physics engineering economics and statistics   *Spectral Theory of Bounded Linear Operators* Carlos S. Kubrusly,2020-01-30 This textbook introduces spectral theory for bounded linear operators by focusing on i the spectral theory and functional calculus for normal operators acting on Hilbert spaces ii the Riesz Dunford functional calculus for Banach space operators and iii the Fredholm theory in both Banach and Hilbert spaces Detailed proofs of all theorems are included and presented with precision and clarity especially for the spectral theorems allowing students to thoroughly familiarize themselves with all the important concepts Covering both basic and more advanced material the five chapters and two appendices of this volume provide a modern treatment on spectral theory Topics range from spectral results on the Banach algebra of bounded linear operators acting on Banach spaces to functional calculus for Hilbert and Banach space operators including Fredholm and multiplicity theories Supplementary propositions and further notes are included as well ensuring a wide range of topics in spectral theory are covered Spectral Theory of Bounded Linear Operators is ideal for graduate students in mathematics and will also appeal to a wider audience of statisticians engineers and physicists Though it is mostly self contained a familiarity with functional analysis especially operator theory will be helpful

   Functional Analysis and Operator Theory Volodymyr Brayman,Andrii Chaikovskyi,Oleksii Konstantinov,Alexander Kukush,Yuliya Mishura,Oleksii Nesterenko,2024-06-18 The book contains a collection of more than 800 problems from all main chapters of functional analysis with theoretical background and solutions It is mostly intended for undergraduate students who are starting to study the course of functional analysis The book will also be useful for graduate and post graduate students and researchers who wish to refresh their knowledge and deepen their understanding of the subject as well as for teachers of functional analysis and related disciplines It can be used for independent study as well It is assumed that the reader has mastered standard courses of calculus and measure theory and has basic knowledge of linear algebra

analytic geometry and differential equations This collection of problems can help students of different levels of training and different areas of specialization to learn how to solve problems in functional analysis Each chapter of the book has similar structure and consists of the following sections Theoretical Background Examples of Problems with Solutions and Problems to Solve The book contains theoretical preliminaries to ensure that the reader understands the statements of problems and is able to successfully solve them Then examples of typical problems with detailed solutions are included and this is relevant not only for those students who have significant difficulties in studying this subject but also for other students who due to various circumstances could be deprived of communication with a teacher There are problems for independent solving and the corresponding selection of problems reflects all the main plot lines that relate to a given topic The number of problems is sufficient both for a teacher to give practical lessons to set homework to prepare tasks for various forms of control and for those students who want to study the discipline more deeply Problems of a computational nature are provided with answers while theoretical problems the solutions ofwhich require non trivial ideas or new techniques are provided with detailed hints or solutions to introduce the reader to the corresponding ideas or techniques **Operator Approach to Linear Control Systems** A. Cheremensky,V.N. Fomin,2013-11-11 The idea of optimization runs through most parts of control theory The simplest optimal controls are preplanned programmed ones The problem of constructing optimal preplanned controls has been extensively worked out in literature see e g the Pontrjagin maximum principle giving necessary conditions of preplanned control optimality However the concept of op timality itself has a restrictive character it is limited by what one means under optimality in each separate case The internal contradictoriness of the preplanned control optimality the better is the enemy of the good yields that the practical significance of optimal preplanned controls proves to be not great such controls are usually sensitive to unregistered disturbances includ ing the round off errors which are inevitable when computer devices are used for forming controls as there is the effect of disturbance accumulation in the control process which makes controls to be of little use on large time inter vals This gap is mainly provoked by oversimplified settings of optimization problems The outstanding result of control theory established in the end of the first half of our century is that controls in feedback form ensure the weak sensitivity of closed loop systems with respect to small unregistered internal and external disturbances acting in them here we do not need to discuss performance indexes since the considered phenomenon is of general nature But by far not all optimal preplanned controls can be represented in a feedback form **The Theory of H(b) Spaces: Volume 1** Emmanuel Fricain,Javad Mashreghi,2016-05-26 An H b space is defined as a collection of analytic functions which are in the image of an operator The theory of H b spaces bridges two classical subjects complex analysis and operator theory which makes it both appealing and demanding The first volume of this comprehensive treatment is devoted to the preliminary subjects required to understand the foundation of H b spaces such as Hardy spaces Fourier analysis integral representation theorems Carleson measures Toeplitz and Hankel operators various types of shift operators and Clark

measures The second volume focuses on the central theory Both books are accessible to graduate students as well as researchers each volume contains numerous exercises and hints and figures are included throughout to illustrate the theory Together these two volumes provide everything the reader needs to understand and appreciate this beautiful branch of mathematics   The Theory of H(b) Spaces Emmanuel Fricain,Javad Mashreghi,2016-05-26 This is volume 1 of a 2 volume set   **The Elements of Operator Theory** Carlos S. Kubrusly,2011-03-01 This second edition of Elements of Operator Theory is a concept driven textbook that includes a significant expansion of the problems and solutions used to illustrate the principles of operator theory Written in a user friendly motivating style intended to avoid the formula computational approach fundamental topics are presented in a systematic fashion i e set theory algebraic structures topological structures Banach spaces and Hilbert spaces culminating with the Spectral Theorem Included in this edition more than 150 examples with several interesting counterexamples that demonstrate the frontiers of important theorems as many as 300 fully rigorous proofs specially tailored to the presentation 300 problems many with hints and an additional 20 pages of problems for the second edition This self contained work is an excellent text for the classroom as well as a self study resource for researchers

Tools for Infinite Dimensional Analysis Jeremy J. Becnel,2020-12-21 Over the past six decades several extremely important fields in mathematics have been developed Among these are It calculus Gaussian measures on Banach spaces Malliavan calculus and white noise distribution theory These subjects have many applications ranging from finance and economics to physics and biology Unfortunately the background information required to conduct research in these subjects presents a tremendous roadblock The background material primarily stems from an abstract subject known as infinite dimensional topological vector spaces While this information forms the backdrop for these subjects the books and papers written about topological vector spaces were never truly written for researchers studying infinite dimensional analysis Thus the literature for topological vector spaces is dense and difficult to digest much of it being written prior to the 1960s Tools for Infinite Dimensional Analysis aims to address these problems by providing an introduction to the background material for infinite dimensional analysis that is friendly in style and accessible to graduate students and researchers studying the above mentioned subjects It will save current and future researchers countless hours and promote research in these areas by removing an obstacle in the path to beginning study in areas of infinite dimensional analysis Features Focused approach to the subject matter Suitable for graduate students as well as researchers Detailed proofs of primary results   **The Elements of Operator Theory** Carlos S. Kubrusly,2011-03-07 This second edition of Elements of Operator Theory is a concept driven textbook that includes a significant expansion of the problems and solutions used to illustrate the principles of operator theory Written in a user friendly motivating style intended to avoid the formula computational approach fundamental topics are presented in a systematic fashion i e set theory algebraic structures topological structures Banach spaces and Hilbert spaces culminating with the Spectral Theorem Included in this edition more than 150 examples with

several interesting counterexamples that demonstrate the frontiers of important theorems as many as 300 fully rigorous proofs specially tailored to the presentation 300 problems many with hints and an additional 20 pages of problems for the second edition This self contained work is an excellent text for the classroom as well as a self study resource for researchers

Methods for Solving Operator Equations V. P. Tanana,2012-02-13 The Inverse and Ill Posed Problems Series is a series of monographs publishing postgraduate level information on inverse and ill posed problems for an international readership of professional scientists and researchers The series aims to publish works which involve both theory and applications in e g physics medicine geophysics acoustics electrodynamics tomography and ecology   **The Commutant Lifting Approach to Interpolation Problems** Foias,Frazho,2013-11-11 Classical H interpolation theory was conceived at the beginning of the century by C Caratheodory L Fejer and I Schur The basic method due to Schur in solving these problems consists in applying the Mobius transform to peel off the data In 1967 D Sarason encompassed these classical interpolation problems in a representation theorem of operators commuting with special contractions Shortly after that in 1968 B Sz Nagy and C Foias obtained a purely geometrical extension of Sarason s results Actually their result states that operators intertwining restrictions of co isometries can be extended by preserving their norm to operators intertwining these co isometries starring with R G Douglas P S Muhly and C Pearcy this is referred to as the commutant lifting theorem In 1957 Z Nehari considered an L interpolation problern which in turn encompassed the same classical interpolation problems as well as the computation of the distance of a function f in L to H At about the sametime as Sarason s work V M   *Real and Functional Analysis* Vladimir I. Bogachev,Oleg G. Smolyanov,2020-02-25 This book is based on lectures given at Mekhmat the Department of Mechanics and Mathematics at Moscow State University one of the top mathematical departments worldwide with a rich tradition of teaching functional analysis Featuring an advanced course on real and functional analysis the book presents not only core material traditionally included in university courses of different levels but also a survey of the most important results of a more subtle nature which cannot be considered basic but which are useful for applications Further it includes several hundred exercises of varying difficulty with tips and references The book is intended for graduate and PhD students studying real and functional analysis as well as mathematicians and physicists whose research is related to functional analysis   **Linear Chaos** Karl-G. Grosse-Erdmann,Alfred Peris Manguillot,2011-08-24 It is commonly believed that chaos is linked to non linearity however many even quite natural linear dynamical systems exhibit chaotic behavior The study of these systems is a young and remarkably active field of research which has seen many landmark results over the past two decades Linear dynamics lies at the crossroads of several areas of mathematics including operator theory complex analysis ergodic theory and partial differential equations At the same time its basic ideas can be easily understood by a wide audience Written by two renowned specialists Linear Chaos provides a welcome introduction to this theory Split into two parts part I presents a self contained introduction to the dynamics of linear operators while part II covers selected largely independent topics from

linear dynamics More than 350 exercises and many illustrations are included and each chapter contains a further Sources and Comments section The only prerequisites are a familiarity with metric spaces the basic theory of Hilbert and Banach spaces and fundamentals of complex analysis More advanced tools only needed occasionally are provided in two appendices A self contained exposition this book will be suitable for self study and will appeal to advanced undergraduate or beginning graduate students It will also be of use to researchers in other areas of mathematics such as partial differential equations dynamical systems and ergodic theory **Numerical Methods for the Solution of Ill-Posed Problems** A.N. Tikhonov,A. Goncharsky,V.V. Stepanov,Anatoly G. Yagola,2013-03-09 Many problems in science technology and engineering are posed in the form of operator equations of the first kind with the operator and RHS approximately known But such problems often turn out to be ill posed having no solution or a non unique solution and or an unstable solution Non existence and non uniqueness can usually be overcome by settling for generalised solutions leading to the need to develop regularising algorithms The theory of ill posed problems has advanced greatly since A N Tikhonov laid its foundations the Russian original of this book 1990 rapidly becoming a classical monograph on the topic The present edition has been completely updated to consider linear ill posed problems with or without a priori constraints non negativity monotonicity convexity etc Besides the theoretical material the book also contains a FORTRAN program library Audience Postgraduate students of physics mathematics chemistry economics engineering Engineers and scientists interested in data processing and the theory of ill posed problems **Methods for Partial Differential Equations** Marcelo R. Ebert,Michael Reissig,2018-02-23 This book provides an overview of different topics related to the theory of partial differential equations Selected exercises are included at the end of each chapter to prepare readers for the research project for beginners proposed at the end of the book It is a valuable resource for advanced graduates and undergraduate students who are interested in specializing in this area The book is organized in five parts In Part 1 the authors review the basics and the mathematical prerequisites presenting two of the most fundamental results in the theory of partial differential equations the Cauchy Kovalevskaja theorem and Holmgren s uniqueness theorem in its classical and abstract form It also introduces the method of characteristics in detail and applies this method to the study of Burger s equation Part 2 focuses on qualitative properties of solutions to basic partial differential equations explaining the usual properties of solutions to elliptic parabolic and hyperbolic equations for the archetypes Laplace equation heat equation and wave equation as well as the different features of each theory It also discusses the notion of energy of solutions a highly effective tool for the treatment of non stationary or evolution models and shows how to define energies for different models Part 3 demonstrates how phase space analysis and interpolation techniques are used to prove decay estimates for solutions on and away from the conjugate line It also examines how terms of lower order mass or dissipation or additional regularity of the data may influence expected results Part 4 addresses semilinear models with power type non linearity of source and absorbing type in order to determine critical exponents two well known critical exponents

the Fujita exponent and the Strauss exponent come into play Depending on concrete models these critical exponents divide the range of admissible powers in classes which make it possible to prove quite different qualitative properties of solutions for example the stability of the zero solution or blow up behavior of local in time solutions The last part features selected research projects and general background material **Surveys on Solution Methods for Inverse Problems** David Colton,Heinz W. Engl,Alfred K. Louis,Joyce McLaughlin,William Rundell,2012-12-06 Inverse problems are concerned with determining causes for observed or desired effects Problems of this type appear in many application fields both in science and in engineering The mathematical modelling of inverse problems usually leads to ill posed problems i e problems where solutions need not exist need not be unique or may depend discontinuously on the data For this reason numerical methods for solving inverse problems are especially difficult special methods have to be developed which are known under the term regularization methods This volume contains twelve survey papers about solution methods for inverse and ill posed problems and about their application to specific types of inverse problems e g in scattering theory in tomography and medical applications in geophysics and in image processing The papers have been written by leading experts in the field and provide an up to date account of solution methods for inverse problems _Numerical Solution of Nonlinear Elliptic Problems Via Preconditioning Operators_ István Faragó,János Karátson,2002 Numerical Solution of Nonlinear Elliptic Problems Via Preconditioning Operators Theory Applications **Iterative Methods for Approximate Solution of Inverse Problems** A.B. Bakushinsky,M.Yu. Kokurin,2007-09-28 This volume presents a unified approach to constructing iterative methods for solving irregular operator equations and provides rigorous theoretical analysis for several classes of these methods The analysis of methods includes convergence theorems as well as necessary and sufficient conditions for their convergence at a given rate The principal groups of methods studied in the book are iterative processes based on the technique of universal linear approximations stable gradient type processes and methods of stable continuous approximations Compared to existing monographs and textbooks on ill posed problems the main distinguishing feature of the presented approach is that it doesn t require any structural conditions on equations under consideration except for standard smoothness conditions This allows to obtain in a uniform style stable iterative methods applicable to wide classes of nonlinear inverse problems Practical efficiency of suggested algorithms is illustrated in application to inverse problems of potential theory and acoustic scattering The volume can be read by anyone with a basic knowledge of functional analysis The book will be of interest to applied mathematicians and specialists in mathematical modeling and inverse problems **Methods for Solving Mathematical Physics Problems** Valeriĭ Ivanovich Agoshkov,P. B. Dubovsky,V. P. Shutiayev,2006 The aim of the book is to present to a wide range of readers students postgraduates scientists engineers etc basic information on one of the directions of mathematics methods for solving mathematical physics problems The authors have tried to select for the book methods that have become classical and generally accepted However some of the current versions of these methods may be missing from

the book because they require special knowledge The book is of the handbook teaching type On the one hand the book describes the main definitions the concepts of the examined methods and approaches used in them and also the results and claims obtained in every specific case On the other hand proofs of the majority of these results are not presented and they are given only in the simplest methodological cases Another special feature of the book is the inclusion of many examples of application of the methods for solving specific mathematical physics problems of applied nature used in various areas of science and social activity such as power engineering environmental protection hydrodynamics elasticity theory etc This should provide additional information on possible applications of these methods To provide complete information the book includes a chapter dealing with the main problems of mathematical physics together with the results obtained in functional analysis and boundary value theory for equations with partial derivatives *New Splitting Iterative Methods for Solving Multidimensional Neutron Transport Equations* Jacques Tagoudjeu,2011-04 This thesis focuses on iterative methods for the treatment of the steady state neutron transport equation in slab geometry bounded convex domain of Rn n 2 3 and in 1 D spherical geometry We introduce a generic Alternate Direction Implicit ADI like iterative method based on positive definite and m accretive splitting PAS for linear operator equations with operators admitting such splitting This method converges unconditionally and its SOR acceleration yields convergence results similar to those obtained in presence of finite dimensional systems with matrices possessing the Young property A The proposed methods are illustrated by a numerical example in which an integro differential problem of transport theory is considered In the particular case where the positive definite part of the linear equation operator is self adjoint an upper bound for the contraction factor of the iterative method which depends solely on the spectrum of the self adjoint part is derived As such this method has been successfully applied to the neutron transport equation in slab and 2 D cartesian geometry and in 1 D spherical geometry The self adjoint and m accretive splitting leads to a fixed point problem where the operator is a 2 by 2 matrix of operators An infinite dimensional adaptation of minimal residual and preconditioned minimal residual algorithms using Gauss Seidel symmetric Gauss Seidel and polynomial preconditioning are then applied to solve the matrix operator equation Theoretical analysis shows that the methods converge unconditionally and upper bounds of the rate of residual decreasing which depend solely on the spectrum of the self adjoint part of the operator are derived The convergence of theses solvers is illustrated numerically on a sample neutron transport problem in 2 D geometry Various test cases including pure scattering and optically thick domains are considered

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