

Carlos S. Kubrusly

# Hilbert Space Operators

*A Problem Solving  
Approach*

BIRKHÄUSER

# Hilbert Space Operators A Problem Solving Approach

**Carlos S. Kubrusly**



## **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

**Functional Analysis and Operator Theory** Volodymyr Brayman, Andrii Chaikovskiy, 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 of which require non trivial ideas or new techniques are provided with detailed hints or solutions to introduce the

reader to the corresponding ideas or techniques      **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      *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 optimality 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 including 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 intervals 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* Emmanuel Fricain, Javad Mashreghi, 2016-05-26 This is volume 1 of a 2 volume set

**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

***Operator Approach to Linear Problems of Hydrodynamics*** Nikolay D. Kopachevskii, Selim G. Krein, 2012-12-06 This is the first volume of a set of two devoted to the operator approach to linear problems in hydrodynamics It presents functional analytical methods applied to the study of small movements and normal oscillations of hydromechanical systems having cavities filled with either ideal or viscous fluids The work is a sequel to and at the same time substantially extends the volume *Operator Methods in Linear Hydrodynamics Evolution and Spectral Problems* by N D Kopachevsky S G Krein and Ngo Zuy Kan published in 1989 by Nauka in Moscow It includes several new problems on the oscillations of partially dissipative hydrosystems and the oscillations of visco elastic or relaxing fluids The work relies on the authors and their students works of the last 30 40 years The readers are not supposed to be familiar with the methods of functional analysis In the first part of the present volume the main facts of linear operator theory relevant to linearized problems of hydrodynamics are summarized including elements of the theories of distributions self adjoint operators in Hilbert spaces and in spaces with an indefinite metric evolution equations and asymptotic methods for their solutions the spectral theory of operator pencils The book is particularly useful for researchers engineers and students in fluid mechanics and mathematics interested in operator theoretical methods for the analysis of hydrodynamical problems

**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. Bečnel, 2020-12-28 Over the past six decades several extremely important fields in mathematics have been developed Among these are It calculus Gaussian measures on Banach spaces Malliavin 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 **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 **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 **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

**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

*Finite Element Method Electromagnetics* John L. Volakis,Arindam Chatterjee,Leo C. Kempel,1998-06-15 Employed in a large number of commercial electromagnetic simulation packages the finite element method is one of the most popular and well established numerical techniques in engineering This book covers the theory development implementation and application of the finite element method and its hybrid versions to electromagnetics FINITE ELEMENT METHOD FOR ELECTROMAGNETICS begins with a step by step textbook presentation of the finite method and its variations then goes on to provide up to date coverage of three dimensional formulations and modern applications to open and closed domain problems Worked out examples are included to aid the reader with the fine features of the method and the implementation of its hybridization with other techniques for a robust simulation of large scale radiation and scattering The crucial treatment of local boundary conditions is carefully worked out in several stages in the book Sponsored by IEEE Antennas and Propagation Society

**Additive Operator-Difference Schemes** Petr N. Vabishchevich,2013-11-27 Applied mathematical modeling is concerned with solving unsteady problems Splitting schemes are attributed to the transition from a complex problem to a chain of simpler problems This book shows how to construct additive difference schemes splitting schemes to solve approximately unsteady multi dimensional problems for PDEs Two classes of schemes are highlighted methods of splitting with respect to spatial variables alternating direction methods and schemes of splitting into physical processes Also regionally additive schemes domain decomposition methods and unconditionally stable additive schemes of multi component splitting are considered for evolutionary equations of first and second order as well as for systems of equations The book is written for specialists in computational mathematics and mathematical modeling All topics are presented in a clear and accessible manner

**Optimization and Its Applications in Control and Data Sciences** Boris Goldengorin,2016-09-29 This book focuses on recent research in modern optimization and

its implications in control and data analysis This book is a collection of papers from the conference Optimization and Its Applications in Control and Data Science dedicated to Professor Boris T Polyak which was held in Moscow Russia on May 13 15 2015 This book reflects developments in theory and applications rooted by Professor Polyak's fundamental contributions to constrained and unconstrained optimization differentiable and nonsmooth functions control theory and approximation Each paper focuses on techniques for solving complex optimization problems in different application areas and recent developments in optimization theory and methods Open problems in optimization game theory and control theory are included in this collection which will interest engineers and researchers working with efficient algorithms and software for solving optimization problems in market and data analysis Theoreticians in operations research applied mathematics algorithm design artificial intelligence machine learning and software engineering will find this book useful and graduate students will find the state of the art research valuable

*Recent Developments in Fixed-Point Theory* Mudasir Younis, Lili Chen, Deepak Singh, 2024-07-03 This contributed book has a comprehensive collection of 17 carefully curated chapters that delve into the latest advancements in fixed point theory and its diverse applications It bridges the gap between theory and practicality providing readers with a deep understanding of fundamental theorems related to the existence and uniqueness of maps The book covers a wide array of applications each showcasing the relevance of fixed point theory in various domains Readers will explore applications dealing with topological properties the resolution of integral equations across multiple classes nonlinear differential equations fractional differential equations dynamic programming problems and engineering science related challenges This diverse range of topics ensures that the book caters to both theoretical researchers and practitioners seeking real world solutions The primary feature of the book is the pictorial depictions of examples making complex concepts more accessible and understandable These visual representations enhance the learning experience enabling readers to grasp the enunciated outcomes effortlessly The book stands as an essential reference for scholars researchers and professionals interested in the theoretical foundations and practical implications of fixed point theory Its blend of theoretical insights and real world applications makes it an indispensable addition to the field of mathematics and its interdisciplinary applications

Projection-iterative Methods for Solution of Operator Equations Nikolai Stepanovich Kurpel', 1976

*Preconditioning and the Conjugate Gradient Method in the Context of Solving PDEs* Josef Malek, Zdenek Strakos, 2014-12-22 Preconditioning and the Conjugate Gradient Method in the Context of Solving PDEs is about the interplay between modeling analysis discretization matrix computation and model reduction The authors link PDE analysis functional analysis and calculus of variations with matrix iterative computation using Krylov subspace methods and address the challenges that arise during formulation of the mathematical model through to efficient numerical solution of the algebraic problem The book's central concept preconditioning of the conjugate gradient method is traditionally developed algebraically using the preconditioned finite dimensional algebraic system In this text however preconditioning is connected



to the PDE analysis and the infinite dimensional formulation of the conjugate gradient method and its discretization and preconditioning are linked together This text challenges commonly held views addresses widespread misunderstandings and formulates thought provoking open questions for further research

**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

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