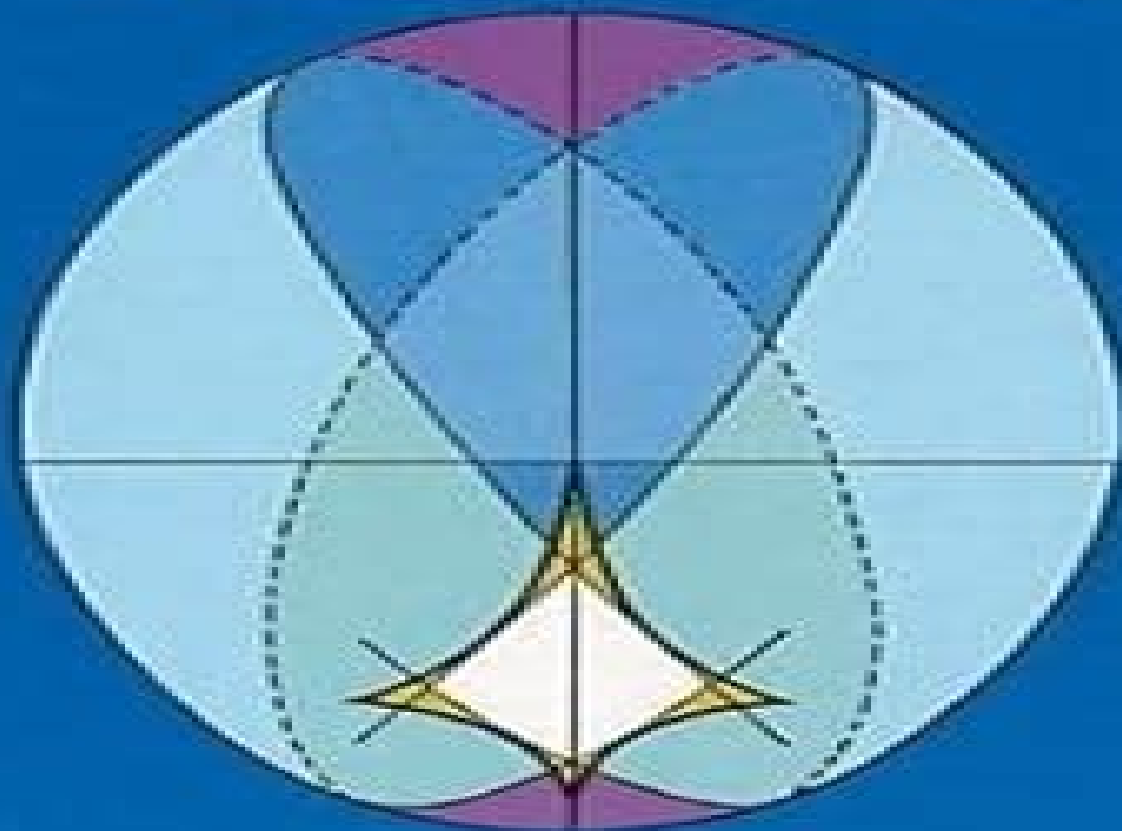


THEORY OF LINEAR OPERATORS IN HILBERT SPACE

Two Volumes Bound As One



N.I. Akhiezer and
I.M. Glazman

Theory Of Linear Operators In Hilbert Space I M Glazman

R Sandford



Theory Of Linear Operators In Hilbert Space I M Glazman:

Theory of Linear Operators in Hilbert Space N. I. Akhiezer, I. M. Glazman, 2013-04-15 This classic textbook by two mathematicians from the USSR's prestigious Kharkov Mathematics Institute introduces linear operators in Hilbert space and presents in detail the geometry of Hilbert space and the spectral theory of unitary and self adjoint operators It is directed to students at graduate and advanced undergraduate levels but because of the exceptional clarity of its theoretical presentation and the inclusion of results obtained by Soviet mathematicians it should prove invaluable for every mathematician and physicist 1961 1963 edition Theory of linear operators in Hilbert space Naum Il'ich Akhiezer, 1961 **Theory of linear operators in Hilbert space** N. I. Akhiezer, I. M. Glazman, 1963 **Theory of linear operators in Hilbert spaces** Naum Il'ich Akhiezer, I. M. Glazman, 1981 **Theory of Linear Operators in Hilbert Space** Naum Il'ich Akhiezer, Izrail' Markovich Glazman, 1966 *New Results in Operator Theory and Its Applications* Israel Gohberg, Yuri I. Lyubich, 2012-12-06 This volume is dedicated to the memory of Israel Glazman an outstanding personality and distinguished mathematician the author of many remarkable papers and books in operator theory and its applications The present book opens with an essay devoted to Glazman's life and scientific achievements It focusses on the areas of his unusually wide interests and consists of 18 mathematical papers in spectral theory of differential operators and linear operators in Hilbert and Banach spaces analytic operator functions ordinary and partial differential equations functional equations mathematical physics nonlinear functional analysis approximation theory and optimization and mathematical statistics The book gives a picture of the current state of some important problems in areas of operator theory and its applications and will be of interest to a wide group of researchers working in pure and applied mathematics **Theory of Linear Operators in Hilbert Space ... Translated ... by Merlynd Nestell, Etc** Naum Il'ich AKHIEZER (and GLAZMAN (I. M.)), I. M. GLAZMAN, Merlynd K. NESTELL, 1961 *Theory of Linear Operators in Hilbert Space* Naum Il'ich Akhiezer, 1993 *Theory of Linear Operators in Hilbert Space* Naum Il'ich Akhiezer, I. M. Glazman, 1981 *Theory of Linear Operators in Hilbert Space* Naum I. Akhiezer, 1981 **Theory of Linear Operators in Hilbert Space** Naum Il'ich Akhiezer, 1966 *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 [Sturm-Liouville Operators, Their Spectral Theory, and Some Applications](#) Fritz Gesztesy, Roger Nichols, Maxim Zinchenko, 2024-09-24 This book provides a detailed treatment of the various facets of modern Sturm Liouville theory including such topics as Weyl Titchmarsh theory classical renormalized and perturbative oscillation theory boundary data maps traces and determinants for Sturm Liouville operators strongly singular Sturm Liouville differential operators generalized boundary values and Sturm Liouville operators with distributional coefficients To illustrate the theory the book develops an array of examples from Floquet theory to short range scattering theory higher order KdV trace relations elliptic and algebro geometric finite gap potentials reflectionless potentials and the Sodin Yuditskii class as well as a detailed collection of singular examples such as the Bessel generalized Bessel and Jacobi operators A set of appendices contains background on the basics of linear operators and spectral theory in Hilbert spaces Schatten von Neumann classes of compact operators self adjoint extensions of symmetric operators including the Friedrichs and Krein von Neumann extensions boundary triplets for ODEs Krein type resolvent formulas sesquilinear forms Nevanlinna Herglotz functions and Bessel functions **Operator Theory and Indefinite Inner Product Spaces** Matthias Langer, Annemarie Luger, Harald Woracek, 2006-06-16 A colloquium on operator theory was held in Vienna Austria in March 2004 on the occasion of the retirement of Heinz Langer a leading expert in operator theory and indefinite inner product spaces The book contains fifteen refereed articles reporting on recent and original results in various areas of operator theory all of them related with the work of Heinz Langer The topics range from abstract spectral theory in Krein spaces to more concrete applications such as boundary value problems the study of orthogonal functions or moment problems The book closes with a historical survey paper [Elementary Operator Theory](#) Marat V. Markin, 2020-04-06 The book is intended as a text for a one semester graduate course in operator theory to be taught from scratch not as a sequel to a functional analysis course with the basics of the spectral theory of linear operators taking the center stage The book consists of six chapters and appendix with the material flowing from the fundamentals of abstract spaces metric vector normed vector and inner product the Banach Fixed Point Theorem and its applications such as Picard's Existence and Uniqueness Theorem through the basics of linear operators two of the three fundamental principles the Uniform Boundedness Principle and the Open Mapping Theorem and its equivalents the Inverse Mapping and Closed Graph Theorems to the elements of the spectral theory including Gelfand's Spectral Radius Theorem and the Spectral Theorem for Compact Self Adjoint Operators and its applications such as the celebrated Lyapunov Stability Theorem Conceived as a text to be used in a classroom the book constantly calls for the student's actively mastering the knowledge of the subject matter There are problems at the end of each chapter starting with Chapter 2 and totaling at 150 Many important

statements are given as problems and frequently referred to in the main body There are also 432 Exercises throughout the text including Chapter 1 and the Appendix which require of the student to prove or verify a statement or an example fill in certain details in a proof or provide an intermediate step or a counterexample They are also an inherent part of the material More difficult problems are marked with an asterisk many problems and exercises are supplied with existential hints The book is generous on Examples and contains numerous Remarks accompanying definitions examples and statements to discuss certain subtleties raise questions on whether the converse assertions are true whenever appropriate or whether the conditions are essential With carefully chosen material proper attention given to applications and plenty of examples problems and exercises this well designed text is ideal for a one semester Master s level graduate course in operator theory with emphasis on spectral theory for students majoring in mathematics physics computer science and engineering Contents Preface Preliminaries Metric Spaces Vector Spaces Normed Vector Spaces and Banach Spaces Linear Operators Elements of Spectral Theory in a Banach Space Setting Elements of Spectral Theory in a Hilbert Space Setting Appendix The Axiom of Choice and Equivalents Bibliography Index

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