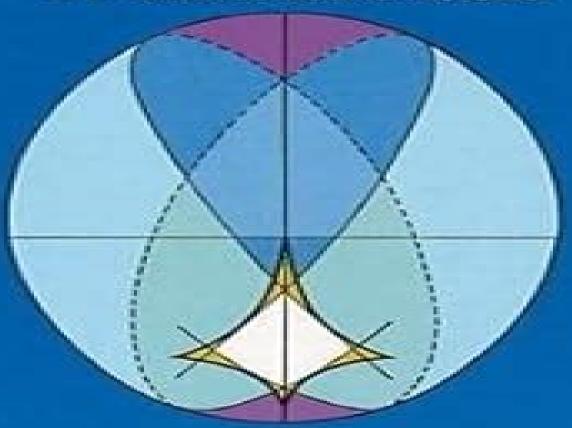
# THEORY OF LINEAR OPERATORS IN HILBERT SPACE

Two Volumes Bound As One



N.I. Akhiezer and I.M. Glazman

## Theory Of Linear Operators In Hilbert Space I M Glazman

Naum Il'ič Ahiezer

### Theory Of Linear Operators In Hilbert Space I M Glazman:

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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 Orthogonal Polynomials on the Unit Circle: Spectral theory Barry Simon, 2005 This two part book is a comprehensive overview of the theory of probability measures on the unit circle viewed especially in terms of the orthogonal polynomials defined by those measures A major theme involves the connections between the Verblunsky coefficients the coefficients of the recurrence equation for the orthogonal polynomials and the measures an analog of the spectral theory of one dimensional Schr dinger operators Among the topics discussed along the way are the asymptotics of Toeplitz determinants Szeg s theorems limit theorems for the density of the zeros of orthogonal polynomials matrix representations for multiplication by z CMV matrices periodic Verblunsky coefficients from the point of view of meromorphic functions on hyperelliptic surfaces and connections between the theories of orthogonal polynomials on the unit circle and on the real line Singular Perturbations of Differential Operators Sergio Albeverio, P. Kurasov, 2000-03-13 Differential and more general self adjoint operators involving singular interactions arise naturally in a range of topics such as classical and quantum physics chemistry and electronics This book presents a systematic mathematical study of these operators with particular emphasis on spectral and scattering problems Suitable for researchers in analysis or mathematical physics this book could also be used as a text for an advanced course on the applications of analysis Theory of Linear Operators in Hilbert Space Naum I. Achiezer, I. M. Glazman, 1963 Theory of Linear Operators in Hilbert Space Naum Il'ich Akhiezer.1966 Theory of Linear Operators in Hilbert Space N. I. Akhiezer, 1956

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