Theoretical Foundations Of Functional Data Analysis With An Introduction To Linear Operators Wiley Series In Probability And Statistics

Invitation to Linear OperatorsIntroduction to Linear Operator TheoryTheory of Linear Operators in Hilbert SpaceBasic Classes of Linear OperatorsInterpolation of Linear OperatorsClasses of Linear OperatorsInvitation to Linear OperatorsLinear Operators in Hilbert SpaceUnbounded Linear OperatorsA Short Introduction to Perturbation Theory for Linear OperatorsTheory of Linear OperationsInvitation to Linear OperatorsLinear Operators and MatricesLinear Operators and their SpectraLinear Operators for Quantum MechanicsTraces and Determinants of Linear OperatorsLinear Algebra and Linear Operators in EngineeringThe Theory of Linear OperatorsSpectral Approximation of Linear OperatorsLinear Operators, Part 1 Takayuki Furuta Vasile I. Istratescu N. I. Akhiezer Israel Gohberg S. G. Krein Israel Gohberg Takayuki Furuta Jean Louis Soulé Seymour Goldberg Tosio Kato S. Banach Takayuki Furuta Israel Gohberg E. Brian Davies Thomas F. Jordan Israel Gohberg H. Ted Davis Harold T. Davis Françoise Chaitin-Chatelin Nelson Dunford

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most books on linear operators are not easy to follow for students and researchers without an extensive background in mathematics self contained and using only matrix theory invitation to linear operators from matricies to bounded linear operators on a hilbert space explains in easy to follow steps a variety of interesting recent

results on linear operators on a hilbert space the author first states the important properties of a hilbert space then sets out the fundamental properties of bounded linear operators on a hilbert space the final section presents some of the more recent developments in bounded linear operators

this book is an introduction to the subject and is devoted to standard material on linear functional analysis and presents some ergodic theorems for classes of operators containing the quasi compact operators it discusses various classes of operators connected with the numerical range

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

a comprehensive graduate textbook that introduces functional analysis with an emphasis on the theory of linear operators and its application to differential equations integral equations infinite systems of linear equations approximation theory and numerical analysis as a textbook designed for senior undergraduate and graduate students it begins with the geometry of hilbert spaces and proceeds to the theory of linear operators on these spaces including banach spaces presented as a natural continuation of linear algebra the book provides a firm foundation in operator theory which is an essential part of mathematical training for students of mathematics engineering and other technical sciences

this volume presents a systematic treatment of the theory of unbounded linear operators in normed linear spaces with applications to differential equations largely self contained it is suitable for advanced undergraduates and graduate students and it only requires a familiarity with metric spaces and real variable theory after introducing the elementary theory of normed linear spaces particularly hilbert space which is used throughout the book the author develops the basic theory of unbounded linear operators with normed linear spaces assumed complete employing operators assumed closed only when needed other topics include strictly singular operators operators with closed range perturbation theory including some of the main theorems that are later applied to ordinary differential operators and the dirichlet operator in which the author outlines the interplay between functional analysis and hard classical analysis in the study of elliptic partial differential equations in addition to its readable style this book s appeal includes numerous examples and motivations for certain definitions and proofs moreover it employs simple notation eliminating

the need to refer to a list of symbols

this book is a slightly expanded reproduction of the first two chapters plus introduction of my book perturbation theory tor linear operators grundlehren der mathematischen wissenschaften 132 springer 1980 ever since or even before the publication of the latter there have been suggestions about separating the first two chapters into a single volume i have now agreed to follow the suggestions hoping that it will make the book available to a wider audience those two chapters were intended from the outset to be a comprehen sive presentation of those parts of perturbation theory that can be treated without the topological complications of infinite dimensional spaces in fact many essential and even advanced results in the theory have non trivial contents in finite dimensional spaces although one should not forget that some parts of the theory such as those pertaining to scatter ing are peculiar to infinite dimensions i hope that this book may also be used as an introduction to linear algebra i believe that the analytic approach based on a systematic use of complex functions by way of the resolvent theory must have a strong appeal to students of analysis or applied mathematics who are usually familiar with such analytic tools

this classic work by the late stefan banach has been translated into english so as to reach a yet wider audience it contains the basics of the algebra of operators concentrating on the study of linear operators which corresponds to that of the linear forms a1x1 a2x2 anxn of algebra the book gathers results concerning linear operators defined in general spaces of a certain kind principally in banach spaces examples of which are the space of continuous functions that of the pth power summable functions hilbert space etc the general theorems are interpreted in various mathematical areas such as group theory differential equations integral equations equations with infinitely many unknowns functions of a real variable summation methods and orthogonal series a new fifty page section some aspects of the present theory of banach spaces complements this important monograph

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in september 1998 during the international workshop on analysis and vibrat ing systems held in canmore alberta canada it was decided by a group of participants to

honour peter lancaster on the occasion of his 70th birthday with a volume in the series operator theory advances and applications friends and colleagues responded enthusiastically to this proposal and within a short time we put together the volume which is now presented to the reader regarding accep tance of papers we followed the usual rules of the journal integral equations and operator theory the papers are dedicated to different problems in matrix and operator theory especially to the areas in which peter contributed so richly at our request peter agreed to write an autobiographical paper which appears at the beginning of the volume it continues with the list of peter s publications we believe that this volume will pay tribute to peter on his outstanding achievements in different areas of mathematics 1 gohberg h langer p ter lancast r 1929 operator theory advances and applications vol 130 1 7 2001 birkhiiuser verlag basel switzerland my life and mathematics peter lancaster i was born in appleby a small county town in the north of england on november 14th 1929 i had two older brothers and was to have one younger sister my family moved around the north of england as my father s work in an insurance company required

this wide ranging but self contained account of the spectral theory of non self adjoint linear operators is ideal for postgraduate students and researchers and contains many illustrative examples and exercises fredholm theory hilbert schmidt and trace class operators are discussed as are one parameter semigroups and perturbations of their generators two chapters are devoted to using these tools to analyze markov semigroups the text also provides a thorough account of the new theory of pseudospectra and presents the recent analysis by the author and barry simon of the form of the pseudospectra at the boundary of the numerical range this was a key ingredient in the determination of properties of the zeros of certain orthogonal polynomials on the unit circle finally two methods both very recent for obtaining bounds on the eigenvalues of non self adjoint schrodinger operators are described the text concludes with a description of the surprising spectral properties of the non self adjoint harmonic oscillator

suitable for advanced undergraduates and graduate students this compact treatment examines linear space functionals and operators diagonalizing operators operator algebras and equations of motion 1969 edition

the authors initially planned to write an article describing the origins and devel opments of the theory of fredholm operators and to present their recollections of this topic we started to read again classical papers and we were sidetracked by the literature concerned with the theory and applications of traces and determi nants of infinite matrices and integral operators we were especially impressed by the papers of poincare von koch fredholm hilbert and carleman as well as f riesz s book on infinite systems of linear equations consequently our plans were changed and we decided to write a paper on the history of determinants of infi nite matrices and

operators during the preparation of our paper we realized that many mathematical questions had to be answered in order to gain a more com plete understanding of the subject so we changed our plans again and decided to present the subject in a more advanced form which would satisfy our new require ments this whole process took between four and five years of challenging but enjoyable work this entailed the study of the appropriate relatively recent results of grothendieck ruston pietsch hermann konig and others after the papers ggk1 and ggk2 were published we saw that the written material could serve as the basis of a book

designed for advanced engineering physical science and applied mathematics students this innovative textbook is an introduction to both the theory and practical application of linear algebra and functional analysis the book is self contained beginning with elementary principles basic concepts and definitions the important theorems of the subject are covered and effective application tools are developed working up to a thorough treatment of eigenanalysis and the spectral resolution theorem building on a fundamental understanding of finite vector spaces infinite dimensional hilbert spaces are introduced from analogy wherever possible theorems and definitions from matrix theory are called upon to drive the analogy home the result is a clear and intuitive segue to functional analysis culminating in a practical introduction to the functional theory of integral and differential operators numerous examples problems and illustrations highlight applications from all over engineering and the physical sciences also included are several numerical applications complete with mathematica solutions and code giving the student a hands on introduction to numerical analysis linear algebra and linear operators in engineering is ideally suited as the main text of an introductory graduate course and is a fine instrument for self study or as a general reference for those applying mathematics contains numerous mathematica examples complete with full code and solutions provides complete numerical algorithms for solving linear and nonlinear problems spans elementary notions to the functional theory of linear integral and differential equations includes over 130 examples illustrations and exercises and over 220 problems ranging from basic concepts to challenging applications presents real life applications from chemical mechanical and electrical engineering and the physical sciences

many of the earliest books particularly those dating back to the 1900s and before are now extremely scarce and increasingly expensive we are republishing these classic works in affordable high quality modern editions using the original text and artwork

the goal of this book is to be comprehensive running the gamut from practical numerical results to a unifying framework of functional analysis while simultaneously preserving the energy and excitement of presenting fresh research results its contents cover recent results which either are scattered through the literature or appear here for the first time as well as providing a nontraditional presentation of standard material

this classic text written by two notable mathematicians constitutes a comprehensive survey of the general theory of linear operations together with applications to the diverse fields of more classical analysis dunford and schwartz emphasize the significance of the relationships between the abstract theory and its applications this text has been written for the student as well as for the mathematician treatment is relatively self contained this is a paperback edition of the original work unabridged in three volumes

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