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 TheoryClasses of Linear Operators Vol. IBasic Classes of Linear OperatorsInterpolation of Linear OperatorsTheory of Linear Operators in Hilbert SpaceLinear Operators, Part 1The Theory of Linear OperatorsLinear Algebra and Linear Operators in EngineeringClasses of Linear Operators Vol. ILinear Operators in Hilbert SpaceTheoretical Foundations of Functional Data Analysis, with an Introduction to Linear OperatorsInvitation to Linear OperatorsTheory of Linear OperationsLinear Operators and their SpectraSemigroups of Linear Operators and ApplicationsLinear Operators and MatricesUnbounded Linear OperatorsA Short Introduction to Perturbation Theory for Linear OperatorsMultivalued Linear Operators Takayuki Furuta Vasile I. Istratescu Israel Gohberg Israel Gohberg S. G. Krein N. I. Akhiezer Nelson Dunford Harold T. Davis H. Ted Davis Israel Gohberg Jean Louis Soulé Tailen Hsing Takayuki Furuta S. Banach E. Brian Davies Jerome A. Goldstein Israel Gohberg Seymour Goldberg Tosio Kato Ronald Cross

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Takayuki Furuta Vasile I. Istratescu Israel Gohberg Israel Gohberg S. G. Krein N. I. Akhiezer Nelson Dunford Harold T. Davis H. Ted Davis Israel Gohberg Jean Louis Soulé Tailen Hsing Takayuki Furuta S. Banach E. Brian Davies Jerome A. Goldstein Israel Gohberg Seymour Goldberg Tosio Kato Ronald Cross

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

after the book basic operator theory by gohberg goldberg was pub lished we that is the present authors intended to continue with another book which would show the readers the large variety of classes of operators and the important role they play in applications the book was planned to be of modest size but due to the profusion of results in this area of analysis the number of topics grew larger than ex pected consequently we decided to divide the material into two volumes the first volume being presented now during the past years courses and seminars were given at our respective in stitutions based on parts of the texts these were well received by the audience and enabled us to make appropriate choices for the topics and presentation for the two vol umes we would like to thank g j groenewald a b kuijper and a c m ran of the vrije universiteit at amsterdam who provided us with lists of remarks and corrections we are now aware that the basic operator theory book should be revised so that it may suitably fit in with our present volumes this revision is planned to be the last step of an induction and not the first

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 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

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

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

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

after the book basic operator theory by gohberg goldberg was pub lished we that is the present authors intended to continue with another book which would show the readers the large variety of classes of operators and the important role they play in applications the book was planned to be of modest size but due to the profusion of results in this area of analysis the number of topics grew larger than ex pected consequently we decided to divide the material into two volumes the first volume being presented now during the past years courses and seminars were given at our respective in stitutions based on parts of the texts these were well received by the audience and enabled us to make appropriate choices for the topics and presentation for the two vol umes we would like to thank g j groenewald a b kuijper and a c m ran of the vrije universiteit at amsterdam who provided us with lists of remarks and corrections we are now aware that the basic operator theory book should be revised so that it may suitably fit in with our present volumes this revision is planned to be the last step of an induction and not the first

theoretical foundations of functional data analysis with an introduction to linear operators provides a uniquely broad compendium of the key mathematical concepts and results that are relevant for the theoretical development of functional data analysis fda the self contained treatment of selected topics of functional analysis and operator theory includes reproducing kernel hilbert spaces singular value decomposition of compact operators on hilbert spaces and perturbation theory for both self adjoint and non self adjoint operators the probabilistic foundation for fda is described from the perspective of random elements in hilbert spaces as well as from the viewpoint of continuous time stochastic processes nonparametric estimation approaches including kernel and regularized smoothing are also introduced these tools are then used to investigate the properties of estimators for the mean element covariance operators principal components regression function and canonical correlations a general treatment of canonical correlations in hilbert spaces naturally leads to fda formulations of factor analysis regression manova and discriminant analysis this book will provide a valuable reference for statisticians and other researchers interested in developing or understanding the mathematical aspects of fda it is also suitable for a graduate level special topics course

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

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

advanced graduate level treatment of semigroup theory explores semigroups of linear operators and linear cauchy problems the text features challenging exercises and emphasizes motivation heuristics and further applications 1985 edition

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 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

constructs a theoretical framework for the study of linear relations and provides underlying concepts rules formulae theorems and techniques the book compares the inversion adjoints completion and closure of various classes of linear operators it highlights compact and precompact relations

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