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this book on functional analysis covers all the basics of the subject normed banach and hilbert spaces lebesgue integration and spaces linear operators and functionals compact and self adjoint operators small parameters fixed point theory with a strong focus on examples exercises and practical problems thus making it ideal as course material but also as a reference for self study

this excellent book provides an elegant introduction to functional analysis carefully selected problems this is a nicely written book of great value for stimulating active work by students it can be strongly recommended as an undergraduate or graduate text or as a comprehensive book for self study european mathematical society newsletter functional analysis plays a crucial role in the applied sciences as well as in mathematics it is a beautiful subject that can be motivated and studied for its own sake in keeping with this basic philosophy the author has made this introductory text accessible to a wide spectrum of students including beginning level graduates and advanced undergraduates the exposition is inviting following threads of ideas describing each as fully as possible before moving on to a new topic supporting material is introduced as appropriate and only to the degree needed some topics are treated more than once according to the different contexts in which they arise the prerequisites are minimal requiring little more than advanced calculus and no measure theory the text focuses on normed vector spaces and their important examples banach spaces and hilbert spaces the author also includes topics not usually found in texts on the subject this second edition incorporates many new developments while not overshadowing the book's original flavor areas in the book that demonstrate its unique character have been strengthened in particular new material concerning

fredholm and semi fredholm operators is introduced requiring minimal effort as the necessary machinery was already in place several new topics are presented but relate to only those concepts and methods emanating from other parts of the book these topics include perturbation classes measures of noncompactness strictly singular operators and operator constants overall the presentation has been refined clarified and simplified and many new problems have been added the book is recommended to advanced undergraduates graduate students and pure and applied research mathematicians interested in functional analysis and operator theory

the book is intended to serve as a textbook for an introductory course in functional analysis for the senior undergraduate and graduate students it can also be useful for the senior students of applied mathematics statistics operations research engineering and theoretical physics the text starts with a chapter on preliminaries discussing basic concepts and results which would be taken for granted later in the book this is followed by chapters on normed and banach spaces bounded linear operators bounded linear functionals the concept and specific geometry of hilbert spaces functionals and operators on hilbert spaces and introduction to spectral theory an appendix has been given on schauder bases the salient features of the book are presentation of the subject in a natural way description of the concepts with justification clear and precise exposition avoiding pedantry various examples and counter examples graded problems throughout each chapter notes and remarks within the text enhances the utility of the book for the students

this undergraduate textbook introduces students to the basics of real analysis provides an introduction to more advanced topics including measure theory and lebesgue integration and offers an invitation to functional analysis while these advanced topics are not typically encountered until graduate study the text is designed for the beginner the author's engaging style makes advanced topics approachable without sacrificing rigor the text also consistently encourages the reader to pick up a pencil and take an active part in the learning process key features include examples to reinforce theory thorough explanations preceding definitions theorems and formal proofs illustrations to support intuition over 450 exercises designed to develop connections between the concrete and abstract this text takes students on a journey through the basics of real analysis and provides those who wish to delve deeper the opportunity to experience mathematical ideas that are beyond the standard undergraduate curriculum

introduces the methods and language of functional analysis including hilbert spaces fredholm theory for compact operators and spectral theory of self adjoint operators this work presents the theorems and methods of abstract functional analysis and applications of these methods to banach algebras and theory of unbounded self adjoint operators

this book is an introductory text in functional analysis unlike many modern treatments it begins with the particular and works its way to the more general from the reviews this book is an excellent text for a first graduate course in functional analysis many interesting and important applications are included it includes an abundance of exercises and is written in the engaging and lucid style which we have come to expect from the author mathematical reviews

while there is a plethora of excellent but mostly tell it all books on the subject this one is intended to take a unique place in what today seems to be a still wide open niche for an introductory text on the basics of functional analysis to be taught within the existing constraints of the standard for the united states one semester graduate curriculum fifteen weeks with two seventy five minute lectures per week the book consists of seven chapters and an appendix taking the reader from the fundamentals of abstract spaces metric vector normed vector and inner product through the basics of linear operators and functionals the three fundamental principles the hahn banach theorem the uniform boundedness principle the open mapping theorem and its equivalents the inverse mapping and closed graph theorems with their numerous profound implications and certain interesting applications to the elements of the duality and reflexivity theory chapter 1 outlines some necessary preliminaries while

the appendix gives a concise discourse on the celebrated axiom of choice its equivalents the hausdorff maximal principle zorn s lemma and zermello s well ordering principle and ordered sets being designed 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 it contains 112 problems which are indispensable for understanding and moving forward many important statements are given as problems a lot of these are frequently referred to and used in the main body there are also 376 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 necessary 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 problem and exercises being supplied with existential hints the book is generous on examples and contains numerous remarks accompanying every definition and virtually each statement to discuss certain subtleties raise questions on whether the converse assertions are true whenever appropriate or whether the conditions are essential the prerequisites are set intentionally quite low the students not being assumed to have taken graduate courses in real or complex analysis and general topology to make the course accessible and attractive to a wider audience of stem science technology engineering and mathematics graduate students or advanced undergraduates with a solid background in calculus and linear algebra with proper attention given to applications plenty of examples problems and exercises this well designed text is ideal for a one semester graduate course on the fundamentals of functional analysis for students in mathematics physics computer science and engineering contents preliminaries metric spaces normed vector and banach spaces inner product and hilbert spaces linear operators and functionals three fundamental principles of linear functional analysis duality and reflexivity the axiom of choice and equivalents

the author presents the essentials of functional analysis and discusses basic metric and topological concepts four fundamental theorems are presented functional analysis hahn

discusses hilbert spaces banach algebras operator theory and topological vector spaces the book covers many standard results including the hahn banach open mapping and closed graph theorems the banach steinhaus and the banach alaoglu theorems and riesz fischer and riesz representation theorems

advanced engineering analysis is a textbook on modern engineering analysis covering the calculus of variations functional analysis and control theory as well as applications of these disciplines to mechanics the book offers a brief and concise yet complete explanation of essential theory and applications it contains exercises with hints and solutions ideal for self study

this book consists of nine papers covering a number of basic ideas concepts and methods of nonlinear analysis as well as some current research problems thus the reader is introduced to the fascinating theory around brouwer s fixed point theorem to granas theory of topological transversality and to some advanced techniques of critical point theory and fixed point theory other topics include discontinuous differential equations new results of metric fixed point theory robust tracker design problems for various classes of nonlinear systems and periodic solutions in computer virus propagation models

this practical guide explains resource description and access rda the new cataloguing standard that will replace the anglo american cataloguing rules aacr

this 1970 textbook aims to provide a truly introductory course in functional analysis

presenting excellent material for a first course on functional analysis functional analysis in applied mathematics and engineering concentrates on material that will be useful to control engineers from the disciplines of electrical mechanical and aerospace engineering this text reference discusses rudimentary topology banach s fixed point theorem with applications l p spaces density theorems for testfunctions infinite dimensional spaces bounded linear operators fourier series open mapping and closed graph theorems compact and differential operators hilbert schmidt operators volterra equations

sobolev spaces control theory and variational analysis hilbert uniqueness method boundary element methods functional analysis in applied mathematics and engineering begins with an introduction to the important abstract basic function spaces and operators with mathematical rigor then studies problems in the hilbert space setting the author proves the spectral theorem for unbounded operators with compact inverses and goes on to present the abstract evolution semigroup theory for time dependent linear partial differential operators this structure establishes a firm foundation for the more advanced topics discussed later in the text

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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