



**NOTE:** Attempt any FIVE questions in all selecting at least TWO questions from each section.

## SECTION-I

Q.1	(a)	Let $A$ be a subset of a topological space $(X, \tau)$ then Prove that : (i) $(A^0)^c = \overline{A^c}$ (ii) $\overline{A} = A \cup F_p(A)$ (iii) $A^0 = A \setminus F_p(A)$ .	(10)
	(b)	Prove that the set of rational numbers $\mathbb{Q}$ , as a subspace of $\mathbb{R}$ , does not have discrete topology.	(10)
Q.2	(a)	Prove that a function $f : X \rightarrow Y$ , is continuous on $X$ if and only if for any subset $A$ of $X$ , $f(\overline{A}) \subseteq \overline{f(A)}$ .	(10)
	(b)	Show that the mapping $(-1, 1) \cong \mathbb{R}$ .	(10)
Q.3	(a)	Prove that every metric space is a Tychonoff space.	(10)
	(b)	Prove that $A = \{(x, y) \in \mathbb{R}^2 : x^2 + y^2 = 1\}$ is compact but $B = \{(x, y) \in \mathbb{R}^2 : y^2 = x\}$ is not compact in $\mathbb{R}^2$ , with respect to the usual topology.	(10)
Q.4	(a)	A space $X$ is a $T_0$ -space if and only if, for any $a, b$ in $X$ , $a \neq b$ implies $\overline{\{a\}} \neq \overline{\{b\}}$ .	(10)
	(b)	Let $X$ be an infinite set with co-finite topology $\tau$ on $X$ . Then show that (i) $(X, \tau)$ is compact (ii) $(X, \tau)$ is connected.	(10)

## SECTION-II

Q.5	(a)	Show that the space $l^\infty$ with respect to the norm defined by $\ x\  = \sup_{i=1}^{\infty}  x_i $ , is a Banach space.	(10)
	(b)	Define the distance from a point $x$ to a subset $M$ of $(X, d)$ and show that $ d(x, M) - d(y, M)  \leq d(x, y)$ . Also show that the function $f : X \rightarrow \mathbb{R}$ , defined by $f(x) = d(x, M)$ , is uniformly continuous.	(10)
Q.6	(a)	Give an example of Cauchy sequence of real valued continuous functions defined on a $[-1, 1]$ that converges to a discontinuous function.	(10)
	(b)	(i) Prove that the closure $\overline{C}$ of a convex subset $C$ of a normed space $X$ , is a convex set. (ii) Find the norm of the linear functional $f(x) = \int_{-1}^0 x(t) dt - \int_0^1 x(t) dt$ on $C[-1, 1]$ under the integral norm.	(10)
Q.7	(a)	Prove that the dual space of norm space $l^3$ is isomorphic to $l^{\frac{3}{2}}$ .	(10)
	(b)	If the closed unit ball $\overline{B}(0, 1) = \{x \in X : \ x\  \leq 1\}$ in a normed space $X$ , is compact then prove that $X$ has a finite dimension.	(10)
Q.8	(a)	Prove that the normed space $l^\infty$ is not separable.	(10)
	(b)	For any $a = (a_1, a_2, \dots, a_n) \in \mathbb{R}^n$ define $f_a : \mathbb{R}^n \rightarrow \mathbb{R}$ by $f_a(x) = \sum_{i=1}^n a_i x_i$ , $x \in \mathbb{R}^n$ then prove that (i) $f_a$ is linear functional (ii) $f_a$ is bounded (iii) $\ f_a\  = \ a\ $ .	(10)
Q.9	(a)	State and prove parallelogram law in a normed space $X$ . Give example of two continuous functions defined on a closed interval that do not satisfy parallelogram law.	(10)
	(b)	Let $M$ be a convex subset of a Hilbert space $H$ , and $\{x_n\}$ be a sequence of $M$ such that $\ x_n\  \rightarrow \inf_{x \in M} \ x\ $ . Show that $\{x_n\}$ converges in $H$ . Give an illustrative example in $\mathbb{R}^n$ .	(10)

# Msc Maths Functional Analysis

**Michael Pedersen**



## **Msc Maths Functional Analysis:**

*Applied Functional Analysis* J. Tinsley Oden, Leszek Demkowicz, 2017-12-01 *Applied Functional Analysis* Third Edition provides a solid mathematical foundation for the subject It motivates students to study functional analysis by providing many contemporary applications and examples drawn from mechanics and science This well received textbook starts with a thorough introduction to modern mathematics before continuing with detailed coverage of linear algebra Lebesgue measure and integration theory plus topology with metric spaces The final two chapters provides readers with an in depth look at the theory of Banach and Hilbert spaces before concluding with a brief introduction to Spectral Theory The Third Edition is more accessible and promotes interest and motivation among students to prepare them for studying the mathematical aspects of numerical analysis and the mathematical theory of finite elements

**Functional Analysis in Applied Mathematics and Engineering** Michael Pedersen, 2018-10-03 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

*I: Functional Analysis* Michael Reed, Barry Simon, 1981-02-23 This book is the first of a multivolume series devoted to an exposition of functional analysis methods in modern mathematical physics It describes the fundamental principles of functional analysis and is essentially self contained although there are occasional references to later volumes We have included a few applications when we thought that they would provide motivation for the reader Later volumes describe various advanced topics in functional analysis and give numerous applications in classical physics modern physics and partial differential equations

*Functional Analysis* Michel Willem, 2023-01-27 This textbook presents the principles of functional analysis in a clear and concise way The first three chapters describe the general notions of distance integral and norm as well as their relations Fundamental examples are provided in the three chapters that follow Lebesgue spaces dual spaces and Sobolev spaces Two subsequent chapters develop applications to capacity theory and elliptic problems In particular the isoperimetric inequality and the Plya Szeg and Faber Krahn inequalities are proved by purely functional methods The epilogue contains a sketch of the history of functional

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Lectures on Functional Analysis and Applications (Second Edition) V. S. Pugachev, Igor Sinitsyn, 2017-11 This volume is not only intended for mathematicians who deal with applications of functional analysis but also for those having only a moderate background in mathematics in their areas of work The materials covered which includes practically all the information on functional analysis that may be necessary for those working in various areas of mathematics applications as well as the simplicity of presentation differentiates this book from others The method and style of presentation of materials make it digestible and easily understood by readers This second edition includes new and updated 300 examples and more than 500 problems to help readers understand and master the theories presented In addition necessary improvements for bringing the contents more up to date with current fundamental and applied developments in Chapters 1-10 were made Now Chapter 9 covers nonlinear and stochastic problems and Chapter 10 devoted to elements of numerical functional analysis has been completely revised and broadened

Introduction to Functional Analysis S C Bose, 2000-02-01 This book contains all the basic facts of functional analysis relevant to a first course It is completely self contained and would be a valuable introductory text for postgraduate mathematics students

*A Course in Functional Analysis* John B. Conway, 2013-04-17 Functional analysis has become a sufficiently large area of mathematics that it is possible to find two research mathematicians both of whom call themselves functional analysts who have great difficulty understanding the work of the other The common thread is the existence of a linear space with a topology or two or more Here the paths diverge in the choice of how that topology is defined and in whether to study the geometry of the linear space or the linear operators on the space or both In this book I have tried to follow the common thread rather than any special topic I have included some topics

that a few years ago might have been thought of as specialized but which impress me as interesting and basic Near the end of this work I gave into my natural temptation and included some operator theory that though basic for operator theory might be considered specialized by some functional analysts

### **Theorems and Problems in Functional Analysis** A. A.

Kirillov, A. D. Gvishiani, 2012-12-06 Even the simplest mathematical abstraction of the phenomena of reality the real line can be regarded from different points of view by different mathematical disciplines For example the algebraic approach to the study of the real line involves describing its properties as a set to whose elements we can apply operations and obtaining an algebraic model of it on the basis of these properties without regard for the topological properties On the other hand we can focus on the topology of the real line and construct a formal model of it by singling out its continuity as a basis for the model Analysis regards the line and the functions on it in the unity of the whole system of their algebraic and topological properties with the fundamental deductions about them obtained by using the interplay between the algebraic and topological structures The same picture is observed at higher stages of abstraction Algebra studies linear spaces groups rings modules and so on Topology studies structures of a different kind on arbitrary sets structures that give mathematical meaning to the concepts of a limit continuity a neighborhood and so on Functional analysis takes up topological linear spaces topological groups normed rings modules of representations of topological groups in topological linear spaces and so on Thus the basic object of study in functional analysis consists of objects equipped with compatible algebraic and topological structures

### **Functional Analysis and Numerical Mathematics** Lothar Collatz, 2014-05-12 Functional Analysis and Numerical

Mathematics focuses on the structural changes which numerical analysis has undergone including iterative methods vectors integral equations matrices and boundary value problems The publication first examines the foundations of functional analysis and applications including various types of spaces convergence and completeness operators in Hilbert spaces vector and matrix norms eigenvalue problems and operators in pseudometric and other special spaces The text then elaborates on iterative methods Topics include the fixed point theorem for a general iterative method in pseudometric spaces special cases of the fixed point theorem and change of operator iterative methods for differential and integral equations and systems of equations and difference methods The manuscript takes a look at monotonicity inequalities and other topics including monotone operators applications of Schauder's theorem matrices and boundary value problems of monotone kind discrete Chebyshev approximation and exchange methods and approximation of functions The publication is a valuable source of data for mathematicians and researchers interested in functional analysis and numerical mathematics

### Functional Analysis

Walter Rudin, 1991 This classic text is written for graduate courses in functional analysis This text is used in modern investigations in analysis and applied mathematics This new edition includes up to date presentations of topics as well as more examples and exercises New topics include Kakutani's fixed point theorem Lomonosov's invariant subspace theorem and an ergodic theorem This text is part of the Walter Rudin Student Series in Advanced Mathematics

### **Functional**

**analysis in modern applied mathematics** Ruth F. Curtain, A. J. Pritchard, 1977

**Functional Analysis, Calculus of Variations and Numerical Methods for Models in Physics and Engineering** Fabio Silva Botelho, 2020-11-02 The book discusses basic concepts of functional analysis measure and integration theory calculus of variations and duality and its applications to variational problems of non convex nature such as the Ginzburg Landau system in superconductivity shape optimization models dual variational formulations for micro magnetism and others Numerical Methods for such and similar problems such as models in flight mechanics and the Navier Stokes system in fluid mechanics have been developed through the generalized method of lines including their matrix finite dimensional approximations It concludes with a review of recent research on Riemannian geometry applied to Quantum Mechanics and Relativity The book will be of interest to applied mathematicians and graduate students in applied mathematics Physicists engineers and researchers in related fields will also find the book useful in providing a mathematical background applicable to their respective professional areas Graduate Studies, 1986

**Introduction to Functional Analysis** Reinhold Meise, Dietmar Vogt, 1997-07-31 The book is written for students of mathematics and physics who have a basic knowledge of analysis and linear algebra It can be used as a textbook for courses and or seminars in functional analysis Starting from metric spaces it proceeds quickly to the central results of the field including the theorem of Hahn-Banach The spaces  $p$   $L_p$   $C(X)$  and Sobolev spaces are introduced A chapter on spectral theory contains the Riesz theory of compact operators basic facts on Banach and  $C$  algebras and the spectral representation for bounded normal and unbounded self adjoint operators in Hilbert spaces An introduction to locally convex spaces and their duality theory provides the basis for a comprehensive treatment of Fréchet spaces and their duals In particular recent results on sequences spaces linear topological invariants and short exact sequences of Fréchet spaces and the splitting of such sequences are presented These results are not contained in any other book in this field

**Elementary Functional Analysis** Barbara MacCluer, 2008-10-20 Functional analysis arose in the early twentieth century and gradually conquering one stronghold after another became a nearly universal mathematical doctrine not merely a new area of mathematics but a new mathematical world view Its appearance was the inevitable consequence of the evolution of all of nineteenth century mathematics in particular classical analysis and mathematical physics Its original basis was formed by Cantor's theory of sets and linear algebra Its existence answered the question of how to state general principles of a broadly interpreted analysis in a way suitable for the most diverse situations A M Vershik 45 p 438 This text evolved from the content of a one semester introductory course in functional analysis that I have taught a number of times since 1996 at the University of Virginia My students have included first and second year graduate students preparing for thesis work in analysis algebra or topology graduate students in various departments in the School of Engineering and Applied Science and several undergraduate mathematics or physics majors After a first draft of the manuscript was completed it was also used for an independent reading course for several undergraduates preparing for graduate school

Functional Analysis R.E. Edwards, 2012-10-25 The book

contains an enormous amount of information mathematical bibliographical and historical interwoven with some outstanding heuristic discussions Mathematical Reviews In this massive graduate level study Emeritus Professor Edwards Australian National University Canberra presents a balanced account of both the abstract theory and the applications of linear functional analysis Written for readers with a basic knowledge of set theory general topology and vector spaces the book includes an abundance of carefully chosen illustrative examples and excellent exercises at the end of each chapter Beginning with a chapter of preliminaries on set theory and topology Dr Edwards then presents detailed in depth discussions of vector spaces and topological vector spaces the Hahn Banach theorem including applications to potential theory approximation theory game theory and other fields and fixed point theorems Subsequent chapters focus on topological duals of certain spaces radon measures distribution and linear partial differential equations open mapping and closed graph theorems boundedness principles duality theory the theory of compact operators and the Krein Milman theorem and its applications to commutative harmonic analysis Clearly and concisely written Dr Edwards s book offers rewarding reading to mathematicians and physicists with an interest in the important field of functional analysis Because of the broad scope of its coverage this volume will be especially valuable to the reader with a basic knowledge of functional analysis who wishes to learn about parts of the subject other than his own specialties A comprehensive 32 page bibliography supplies a rich source of references to the basic literature

**Applied Functional Analysis** Alampallam V. Balakrishnan, 2012-12-12 In preparing the second edition I have taken advantage of the opportunity to correct errors as well as revise the presentation in many places New material has been included in addition reflecting relevant recent work The help of many colleagues and especially Professor J Stoer in ferreting out errors is gratefully acknowledged I also owe special thanks to Professor v Sazonov for many discussions on the white noise theory in Chapter 6 February 1981 A V BALAKRISHNAN v Preface to the First Edition The title Applied Functional Analysis is intended to be short for Functional analysis in a Hilbert space and certain of its applications the applications being drawn mostly from areas variously referred to as system optimization or control systems or systems analysis One of the signs of the times is a discernible tilt toward application in mathematics and conversely a greater level of mathematical sophistication in the application areas such as economics or system science both spurred undoubtedly by the heightening pace of digital computer usage This book is an entry into this twilight zone The aspects of functional analysis treated here are rapidly becoming essential in the training at the advance graduate level of system scientists and or mathematical economists There are of course now available many excellent treatises on functional analysis *Guide to Graduate Studies in Great Britain* Jenny Knight, 1974

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