



**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

**Vladimir I. Bogachev, Oleg G.  
Smolyanov**



## **Msc Maths Functional Analysis:**

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Hilbert space and covers special classes of optimization problems Supported by 2200 display equations this guide incorporates hundreds of up to date citations *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

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 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 **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     **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     **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     **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     **Graduate Studies** ,1986

**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

**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 advanced graduate level of system scientists and or mathematical economists There are of course now available many excellent treatises on functional analysis

*An Introductory Course in Functional Analysis* Adam Bowers, Nigel J. Kalton, 2014-12-31

*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

Real and Functional Analysis Vladimir I. Bogachev, Oleg G. Smolyanov, 2020-02-25 This book is based on lectures given at Mekhmat the Department of Mechanics and Mathematics at Moscow State University one of the top mathematical departments worldwide with a rich tradition of teaching functional analysis Featuring an advanced course on real and functional analysis the book presents not only core material traditionally included in university courses of different levels but also a survey of the most important results of a more subtle nature which cannot be considered basic but which are useful for applications Further it includes several hundred exercises of varying difficulty with tips and references The book is intended for graduate and PhD students studying real and functional analysis as well as mathematicians and physicists whose research is related to functional analysis

**Introduction to Functional Analysis** Reinhold Meise, Dietmar Vogt, 1997 The book provides a modern introduction to a central part of mathematical analysis It can be used as a self contained textbook for beginner courses in functional analysis In its last chapter recent results from the theory of Frchet spaces are presented which so far have not been available in book form in English This part of the book can be used in seminars and for gaining access to this active area of research

**Applications of Functional Analysis and Operator Theory** V. Hutson, J. Pym, M. Cloud, 2005-02-08 Functional analysis is a powerful tool when applied to mathematical problems arising from physical situations The present book provides by careful selection of material a collection of concepts and techniques essential for the modern practitioner Emphasis is placed on the solution of equations including nonlinear and partial differential equations The assumed background is limited to elementary real variable theory and finite dimensional vector spaces Provides an ideal transition between introductory math courses and advanced graduate study in applied mathematics the physical sciences or engineering Gives the reader a keen understanding of applied functional analysis building progressively from simple background material to the deepest and most significant results Introduces each new topic with a clear concise explanation Includes numerous examples linking fundamental principles with applications Solidifies the reader's understanding with numerous end of chapter problems

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### **Table of Contents Msc Maths Functional Analysis**

1. Understanding the eBook Msc Maths Functional Analysis
  - The Rise of Digital Reading Msc Maths Functional Analysis
  - Advantages of eBooks Over Traditional Books
2. Identifying Msc Maths Functional Analysis
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Msc Maths Functional Analysis
  - User-Friendly Interface
4. Exploring eBook Recommendations from Msc Maths Functional Analysis
  - Personalized Recommendations
  - Msc Maths Functional Analysis User Reviews and Ratings

- Msc Maths Functional Analysis and Bestseller Lists
- 5. Accessing Msc Maths Functional Analysis Free and Paid eBooks
  - Msc Maths Functional Analysis Public Domain eBooks
  - Msc Maths Functional Analysis eBook Subscription Services
  - Msc Maths Functional Analysis Budget-Friendly Options
- 6. Navigating Msc Maths Functional Analysis eBook Formats
  - ePub, PDF, MOBI, and More
  - Msc Maths Functional Analysis Compatibility with Devices
  - Msc Maths Functional Analysis Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Msc Maths Functional Analysis
  - Highlighting and Note-Taking Msc Maths Functional Analysis
  - Interactive Elements Msc Maths Functional Analysis
- 8. Staying Engaged with Msc Maths Functional Analysis
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Msc Maths Functional Analysis
- 9. Balancing eBooks and Physical Books Msc Maths Functional Analysis
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Msc Maths Functional Analysis
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Msc Maths Functional Analysis
  - Setting Reading Goals Msc Maths Functional Analysis
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Msc Maths Functional Analysis
  - Fact-Checking eBook Content of Msc Maths Functional Analysis
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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