

FUNCTIONAL ANALYSIS

Second Edition

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Linear Functional Analysis for Scientists and Engineers Balmohan V. Limaye,2016-06-18 This book provides a concise and meticulous introduction to functional analysis Since the topic draws heavily on the interplay between the algebraic structure of a linear space and the distance structure of a metric space functional analysis is increasingly gaining the attention of not only mathematicians but also scientists and engineers The purpose of the text is to present the basic aspects of functional analysis to this varied audience keeping in mind the considerations of applicability A novelty of this book is the inclusion of a result by Zabreiko which states that every countably subadditive seminorm on a Banach space is continuous Several major theorems in functional analysis are easy consequences of this result The entire book can be used as a textbook for an introductory course in functional analysis without having to make any specific selection from the topics presented here Basic notions in the setting of a metric space are defined in terms of sequences These include total boundedness compactness continuity and uniform continuity Offering concise and to the point treatment of each topic in the framework of a normed space and of an inner product space the book represents a valuable resource for advanced undergraduate students in mathematics and will also appeal to graduate students and faculty in the natural sciences and engineering The book is accessible to anyone who is familiar with linear algebra and real analysis

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Functional Analysis Suhubi Erdogan S.,2008-12-01 *Functional Analysis with Applications* B. Choudhary,Sudarsan Nanda,1989 *TEXTBOOK OF FUNCTIONAL ANALYSIS* V. K. KRISHNAN,2014-01-01 This unique comprehensive and student friendly book now in its second edition continues to hold the purpose of explaining and illustrating the use of the basic theorems in functional analysis through solved numerical problems The text has been revised on the basis of the

readers feedback The book now covers ample worked out numerical problems related to the spectral properties of compact operators on Banach spaces as well as on Hilbert spaces Inclusion of a few problems based on the square root of a positive operator also contributes to the major highlights of this edition Such a practical approach will greatly facilitate students to have a thorough grasp of the subject This stands in stark contrast to the method followed in most of the books where a great amount of theory is given with a smattering of problems to elucidate the topics discussed Intended as a text for the students pursuing postgraduate courses in mathematics this book with its systematic and precise presentation and provision of a large number of exercises should prove to be a trendsetter in its approach to the subject This novelty of approach appeals the students in particular

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