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Measures of
Noncompactness and
Condensing Operators

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# **Measures Of Noncompactneb And Condensing Operators**

**S Ashworth** 

# **Measures Of Noncompactneb And Condensing Operators:**

Measures of Noncompactness and Condensing Operators R. R. Akhmerov, 1992 Measures of Noncompactness and Condensing Operators Akhmerov, Kamenskii, Potapov, Rodkina, Sadovskii, 2014-10-05 A condensing or densifying operator is a mapping under which the image of any set is in a certain sense more compact than the set itself The degree of noncompactness of a set is measured by means of functions called measures of noncompactness The contractive maps and the compact maps i e in this Introduction the maps that send any bounded set into a relatively compact one in the main text the term compact will be reserved for the operators that in addition to having this property are continuous i e in the authors terminology for the completely continuous operators are condensing For contractive maps one can take as measure of noncompactness the diameter of a set while for compact maps can take the indicator function of a family of non relatively com pact sets The operators of the form F x G x x where G is contractive in the first argument and compact in the second are also condensing with respect to some natural measures of noncompactness The linear condensing operators are characterized by the fact that almost all of their spectrum is included in a disc of radius smaller than one The examples given above show that condensing operators are a sufficiently typical phenomenon in various applications of functional analysis for example in the theory of differential and integral equations As is turns out the condensing operators have properties similar to the compact ones Measures of Noncompactness and Condensing Operators

Akhmerov, Kamenskii, Potapov, Rodkina, Sadovskii, 2013-11-21 A condensing or densifying operator is a mapping under which the image of any set is in a certain sense more compact than the set itself. The degree of noncompactness of a set is measured by means of functions called measures of noncompactness. The contractive maps and the compact maps i e in this. Introduction the maps that send any bounded set into a relatively compact one in the main text the term compact will be reserved for the operators that in addition to having this property are continuous i e in the authors terminology for the completely continuous operators are condensing. For contractive maps one can take as measure of noncompactness the diameter of a set while for compact maps can take the indicator function of a family of non relatively compact sets. The operators of the form  $F \times G \times X$  where G is contractive in the first argument and compact in the second are also condensing with respect to some natural measures of noncompactness. The linear condensing operators are characterized by the fact that almost all of their spectrum is included in a disc of radius smaller than one. The examples given above show that condensing operators are a sufficiently typical phenomenon in various applications of functional analysis for example in the theory of differential and integral equations. As is turns out the condensing operators have properties similar to the compact ones.

Measures of Noncompactness in Metric Fixed Point Theory J.M. Ayerbe Toledano, T. Dominguez Benavides, G. Lopez Acedo, 2012-12-06 What is clear and easy to grasp attracts us complications deter David Hilbert The material presented in this volume is based on discussions conducted in periodically held seminars by the Nonlinear Functional Analysis research

group of the University of Seville This book is mainly addressed to those working or aspiring to work in the field of measures of noncompactness and metric fixed point theory Special em phasis is made on the results in metric fixed point theory which were derived from geometric coefficients defined by means of measures of noncompactness and on the relationships between nonlinear operators which are contractive for different measures Several topics in these notes can be found either in texts on measures of noncompactness see AKPRSj BG or in books on metric fixed point theory see GK1 Sm Z Many other topics have come from papers where the authors of this volume have published the results of their research over the last ten years However as in any work of this type an effort has been made to revise many proofs and to place many others in a correct setting Our research was made possible by partial support of the D G I C y T and the Junta de Andalucia Spaces and Measures of Noncompactness with Applications to Differential and Integral Equations Józef Banaś, Mohammad Mursaleen, 2014-07-18 This book deals with the study of sequence spaces matrix transformations measures of noncompactness and their various applications The notion of measure of noncompactness is one of the most useful ones available and has many applications The book discusses some of the existence results for various types of differential and integral equations with the help of measures of noncompactness in particular the Hausdorff measure of noncompactness has been applied to obtain necessary and sufficient conditions for matrix operators between BK spaces to be compact operators The book consists of eight self contained chapters Chapter 1 discusses the theory of FK spaces and Chapter 2 various duals of sequence spaces which are used to characterize the matrix classes between these sequence spaces FK and BK spaces in Chapters 3 and 4 Chapter 5 studies the notion of a measure of noncompactness and its properties The techniques associated with measures of noncompactness are applied to characterize the compact matrix operators in Chapters 6 In Chapters 7 and 8 some of the existence results are discussed for various types of differential and integral equations which are obtained with the help of argumentations based on compactness conditions Measure of Noncompactness, Fixed Point Theorems, and Applications S. A. Mohiuddine, M. Mursaleen, Dragan S. Djordjević, 2024-04-24 The theory of the measure of noncompactness has proved its significance in various contexts particularly in the study of fixed point theory differential equations functional equations integral and integrodifferential equations optimization and others This edited volume presents the recent developments in the theory of the measure of noncompactness and its applications in pure and applied mathematics It discusses important topics such as measures of noncompactness in the space of regulated functions application in nonlinear infinite systems of fractional differential equations and coupled fixed point theorem Key Highlights Explains numerical solution of functional integral equation through coupled fixed point theorem measure of noncompactness and iterative algorithm Showcases applications of the measure of noncompactness and Petryshyn's fixed point theorem functional integral equations in Banach algebra Explores the existence of solutions of the implicit fractional integral equation via extension of the Darbo's fixed point theorem Discusses best proximity point results using measure of noncompactness and its applications

Includes solvability of some fractional differential equations in the holder space and their numerical treatment via measures of noncompactness This reference work is for scholars and academic researchers in pure and applied mathematics

Spectral Theory for Linear Operators Bilel Krichen, 2025-08-01 This book focuses on spectral theory for linear operators involving bounded or unbounded demicompact linear operators acting on Banach spaces This class played an important rule in the theory of perturbation More precisely it contributed in the construction of several classes of stability of essential spectra for bounded or unbounded linear operators We should emphasize that this book is the first one dealing with the demicompactness concept and its relation with Fredholm theory for bounded and unbounded linear operators as well as block operator matrices acting on Banach spaces Researchers as well as graduate students in applicable analysis will find that this book constitutes a useful survey of the fundamental principles of the subject Nevertheless the reader is assumed to be at least familiar with some related sections concerning notions like the compact Fredholm operators the basic tools of the weak topology the concept of measures of weak noncompactness etc Otherwise the reader is urged to consult the recommended literature in order to benefit fully from this book Features First book dealing with demicompactness theory and its relation with Fredholm theory for bounded and unbounded linear operators as well as block operator matrices acting on Banach spaces Self contained coverage of classical and more recent classes of perturbations involving the concept of demicompactness Offers a useful survey of the fundamental principles of spectral theory Provides applications for problem arising in physics and which are modeled by integral or partial differential equations Linear Operators and Their Essential Pseudospectra Aref Jeribi, 2018-04-17 Linear Operators and Their Essential Pseudospectra provides a comprehensive study of spectral theory of linear operators defined on Banach spaces The central items of interest in the volume include various essential spectra but the author also considers some of the generalizations that have been studied In recent years spectral theory has witnessed an explosive development This volume presents a survey of results concerning various types of essential spectra and pseudospectra in a unified axiomatic way and also discusses several topics that are new but which relate to the concepts and methods emanating from the book The main topics include essential spectra essential pseudospectra structured essential pseudospectra and their relative sets This volume will be very useful for several researchers since it represents not only a collection of previously heterogeneous material but also includes discussions of innovation through several extensions As the spectral theory of operators is an important part of functional analysis and has numerous applications in many areas of mathematics the author suggests that some modest prerequisites from functional analysis and operator theory should be in place to be accessible to newcomers and graduate students of mathematics

<u>Spectral Theory and Applications of Linear Operators and Block Operator Matrices</u> Aref Jeribi, 2015-07-04 Examining recent mathematical developments in the study of Fredholm operators spectral theory and block operator matrices with a rigorous treatment of classical Riesz theory of polynomially compact operators this volume covers both abstract and applied

developments in the study of spectral theory These topics are intimately related to the stability of underlying physical systems and play a crucial role in many branches of mathematics as well as numerous interdisciplinary applications By studying classical Riesz theory of polynomially compact operators in order to establish the existence results of the second kind operator equations this volume will assist the reader working to describe the spectrum multiplicities and localization of the eigenvalues of polynomially compact operators **Positive Operators and Fixed-Point Theorems with Applications** S. A. Mohiuddine, Anupam Das, Dragan S. Djordjević, 2025-05-29 This book presents original research on the theory of positive operators alongside fixed point theorems and their diverse applications It introduces various positive operators and explores their approximation properties including Korovkin type theorems Voronovskaja type results convergence rate and other related findings Additionally the book addresses the existence of solutions for various differential and integral equations in different Banach spaces by using Darbo type fixed point theorems This book also presents an interplay between positive operators and fixed point theory Each chapter is self contained addressing a current problem and outlining solutions and potential applications The chapters provide sufficient background to ensure that new definitions and results can be understood independently Mathematical Analysis of Infectious Diseases Prayeen Agarwal, Juan J. Nieto, Delfim F.M. Torres, 2022-06-01 Mathematical Analysis of Infectious Diseases updates on the mathematical and epidemiological analysis of infectious diseases Epidemic mathematical modeling and analysis is important not only to understand disease progression but also to provide predictions about the evolution of disease One of the main focuses of the book is the transmission dynamics of the infectious diseases like COVID 19 and the intervention strategies It also discusses optimal control strategies like vaccination and plasma transfusion and their potential effectiveness on infections using compartmental and mathematical models in epidemiology like SI SIR SICA and SEIR The book also covers topics like biodynamic hypothesis and its application for the mathematical modeling of biological growth and the analysis of infectious diseases mathematical modeling and analysis of diagnosis rate effects and prediction of viruses data driven graphical analysis of epidemic trends dynamic simulation and scenario analysis of the spread of diseases and the systematic review of the mathematical modeling of infectious disease like coronaviruses Offers analytical and numerical techniques for virus models Discusses mathematical modeling and its applications in treating infectious diseases or analyzing their spreading rates Covers the application of differential equations for analyzing disease problems Examines probability distribution and bio mathematical applications

**Operators Between Sequence Spaces and Applications** Bruno de Malafosse, Eberhard Malkowsky, Vladimir Rakočević, 2021-01-19 This book presents modern methods in functional analysis and operator theory along with their applications in recent research The book also deals with the solvability of infinite systems of linear equations in various sequence spaces It uses the classical sequence spaces generalized Cesaro and difference operators to obtain calculations and simplifications of complicated spaces involving these operators In order to make it self-contained comprehensive and of

interest to a larger mathematical community the authors have presented necessary concepts with results for advanced research topics This book is intended for graduate and postgraduate students teachers and researchers as a basis for further **Advanced Topics On Semilinear Evolution Equations** Mouffak research advanced lectures and seminars Benchohra, Gaston Mandata N'guerekata, Abdelkrim Salim, 2025-01-07 Differential evolution equations serve as mathematical representations that capture the progression or transformation of functions or systems as time passes Currently differential equations continue to be an active and thriving area of study with continuous advancements in mathematical methodologies and their practical applications spanning diverse fields such as physics engineering and economics In the late 20th century the notion of Differential Evolution Equations emerged as a distinct field applied to optimization and machine learning challenges Evolution equations hold immense importance in numerous realms of applied mathematics and have experienced notable prominence in recent times This book delves into the study of several classes of equations aiming to investigate the existence of mild and periodic mild solutions and their properties such as approximate controllability complete controllability and attractivity under various conditions By examining diverse problems involving second order semilinear evolution equations differential and integro differential equations with state dependent delay random effects and functional differential equations with delay and random effects we hope to contribute to the advancement of mathematical knowledge and provide researchers academicians and students with a solid foundation for further exploration in this field Throughout this book we explore different mathematical frameworks employing Fr chet spaces and Banach spaces to provide a comprehensive analysis Our investigation extends beyond traditional solutions encompassing the study of asymptotically almost automorphic mild solutions periodic mild solutions and impulsive integro differential equations. These topics shed light on the behavior of equations in both bounded and unbounded domains offering valuable insights into the dynamics of functional evolution equations Topological Fixed Point Theory for Singlevalued and Multivalued Mappings and Applications Afif Ben Amar, Donal O'Regan, 2016-05-04 This is a monograph covering topological fixed point theory for several classes of single and multivalued maps The authors begin by presenting basic notions in locally convex topological vector spaces Special attention is then devoted to weak compactness in particular to the theorems of Eberlein mulian Grothendick and Dunford Pettis Leray Schauder alternatives and eigenvalue problems for decomposable single valued nonlinear weakly compact operators in Dunford Pettis spaces are considered in addition to some variants of Schauder Krasnoselskii Sadovskii and Leray Schauder type fixed point theorems for different classes of weakly sequentially continuous operators on general Banach spaces The authors then proceed with an examination of Sadovskii Furi Pera and Krasnoselskii fixed point theorems and nonlinear Leray Schauder alternatives in the framework of weak topologies and involving multivalued mappings with weakly sequentially closed graph These results are formulated in terms of axiomatic measures of weak noncompactness The authors continue to present some fixed point theorems in a nonempty closed convex of any Banach algebras or Banach algebras satisfying a

sequential condition P for the sum and the product of nonlinear weakly sequentially continuous operators and illustrate the theory by considering functional integral and partial differential equations The existence of fixed points nonlinear Leray Schauder alternatives for different classes of nonlinear ws compact operators weakly condensing 1 set weakly contractive strictly quasi bounded defined on an unbounded closed convex subset of a Banach space are also discussed The authors also examine the existence of nonlinear eigenvalues and eigenvectors as well as the surjectivity of quasibounded operators Finally some approximate fixed point theorems for multivalued mappings defined on Banach spaces Weak and strong topologies play a role here and both bounded and unbounded regions are considered. The authors explicate a method developed to indicate how to use approximate fixed point theorems to prove the existence of approximate Nash equilibria for non cooperative games Fixed point theory is a powerful and fruitful tool in modern mathematics and may be considered as a core subject in nonlinear analysis In the last 50 years fixed point theory has been a flourishing area of research As such the monograph begins with an overview of these developments before gravitating towards topics selected to reflect the particular interests of the authors Functional Analysis and Continuous Optimization José M. Amigó, María J. Cánovas, Marco A. López-Cerdá, Manuel López-Pellicer, 2023-07-01 The book includes selected contributions presented at the International Meeting on Functional Analysis and Continuous Optimization held in Elche Spain on June 16 17 2022 Its contents cover very recent results in functional analysis continuous optimization and the interplay between these disciplines Therefore this book showcases current research on functional analysis and optimization with individual contributions as well as new developments in both areas As a result the reader will find useful information and stimulating ideas **Summability and Approximation Theory** S. A. Mohiuddine, Tuncer Acar, 2018-12-30 This book discusses the Tauberian conditions under which convergence follows from statistical summability various linear positive operators Urysohn type nonlinear Bernstein operators and also presents the use of Banach sequence spaces in the theory of infinite systems of differential equations It also includes the generalization of linear positive operators in post quantum calculus which is one of the currently active areas of research in approximation theory Presenting original papers by internationally recognized authors the book is of interest to a wide range of mathematicians whose research areas include summability and approximation theory One of the most active areas of research in summability theory is the concept of statistical convergence which is a generalization of the familiar and widely investigated concept of convergence of real and complex sequences and it has been used in Fourier analysis probability theory approximation theory and in other branches of mathematics The theory of approximation deals with how functions can best be approximated with simpler functions In the study of approximation of functions by linear positive operators Bernstein polynomials play a highly significant role due to their simple and useful structure And during the last few decades different types of research have been dedicated to improving the rate of convergence and decreasing the error of approximation **Set Valued Mappings with Applications in Nonlinear** 

Analysis Donal O'Regan, Ravi P. Agarwal, 2002-09-26 Interest in the mathematical analysis of multi functions has increased rapidly over the past thirty years partly because of its applications in fields such as biology control theory and optimization economics game theory and physics Set Valued Mappings with Applications to Nonlinear Analysis contains 29 research articles from leading mathematicians in this area The contributors were invited to submit papers on topics such as integral inclusion ordinary and partial differential inclusions fixed point theorems boundary value problems and optimal control This collection will be of interest to researchers in analysis and will pave the way for the creation of new mathematics in the Sequence Space Theory with Applications S. A. Mohiuddine, Bipan Hazarika, 2022-07-20 The book features original chapters on sequence spaces involving the idea of ideal convergence modulus function multiplier sequences Riesz mean Fibonacci difference matrix etc and illustrate their involvement in various applications. The preliminaries have been presented in the beginning of each chapter and then the advanced discussion takes place so it is useful for both expert and nonexpert on aforesaid topics The book consists of original thirteen research chapters contributed by the well recognized researchers in the field of sequence spaces with associated applications Features Discusses the Fibonacci and vector valued difference sequence spaces Presents the solution of Volterra integral equation in Banach algebra Discusses some sequence spaces involving invariant mean and related to the domain of Jordan totient matrix Presents the Tauberian theorems of double sequences Discusses the paranormed Riesz difference sequence space of fractional order Includes a technique for studying the existence of solutions of infinite system of functional integro differential equations in Banach sequence spaces The subject of book is an active area of research of present time internationally and would serve as a good source for researcher and educators involved with the topic of sequence spaces **Nonlinear Analysis and Applications** Ravi P. Agarwal, Donal O'Regan, 2003 This work is dedicated to Professor V Lakshmikantham on the occasion of his 80th birthday The volumes consist of 45 research papers from distinguished experts from a variety of research areas Topics include monotonicity and compact methods blow up and global existence for hyperbolic problems dynamic systems on time scales maximum monotone mappings fixed point theory quasivalued elliptic problems including mixed BVP s impulsive and evolution inclusions iterative processes Morse theory hemivariational inequalities Navier Stokes equations multivalued BVP s various aspects of control theory integral operators semigroup theories modelling of real world phenomena higher order parabolic equations invariant measures superlinear problems and operator equations **Elementary Fixed Point Theorems** P.V. Subrahmanyam, 2019-01-10 This book provides a primary resource in basic fixed point theorems due to Banach Brouwer Schauder and Tarski and their applications Key topics covered include Sharkovsky's theorem on periodic points Thron's results on the convergence of certain real iterates Shield's common fixed theorem for a commuting family of analytic functions and Bergweiler's existence theorem on fixed points of the composition of certain meromorphic functions with transcendental entire functions Generalizations of Tarski s theorem by Merrifield and Stein and Abian s proof of the

equivalence of Bourbaki Zermelo fixed point theorem and the Axiom of Choice are described in the setting of posets A detailed treatment of Ward s theory of partially ordered topological spaces culminates in Sherrer fixed point theorem It elaborates Manka's proof of the fixed point property of arcwise connected hereditarily unicoherent continua based on the connection he observed between set theory and fixed point theory via certain partial order Contraction principle is provided with two proofs one due to Palais and the other due to Barranga Applications of the contraction principle include the proofs of algebraic Weierstrass preparation theorem a Cauchy Kowalevsky theorem for partial differential equations and the central limit theorem It also provides a proof of the converse of the contraction principle due to Jachymski a proof of fixed point theorem for continuous generalized contractions a proof of Browder Gohde Kirk fixed point theorem a proof of Stalling's generalization of Brouwer's theorem examine Caristi's fixed point theorem and highlights Kakutani's theorems on common fixed points and their applications

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# **Table of Contents Measures Of Noncompactneb And Condensing Operators**

- 1. Understanding the eBook Measures Of Noncompactneb And Condensing Operators
  - The Rise of Digital Reading Measures Of Noncompactneb And Condensing Operators
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Measures Of Noncompactneb And Condensing Operators
  - 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 Measures Of Noncompactneb And Condensing Operators
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Measures Of Noncompactneb And Condensing Operators
  - Personalized Recommendations
  - Measures Of Noncompactneb And Condensing Operators User Reviews and Ratings

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