

## FIXED POINT THEOREMS FOR CONTRACTION MAPPINGS WITH APPLICATIONS TO NONEXPANSIVE AND PSEUDO-CONTRACTIVE MAPPINGS

JUAN A. GATICA AND W. A. KIRK<sup>1</sup>

**ABSTRACT.** The principal result states that if  $H$  is a closed and convex subset of a Banach space  $X$ ,  $G$  a subset of  $H$  open relative to  $H$  with the origin  $0$  in  $G$ , and if  $U: \bar{G} \rightarrow H$  is a contraction mapping satisfying (i)  $U(x) = \alpha x$  implies  $\alpha \leq 1$  for  $x \neq 0$  in the boundary of  $G$  relative to the closed subspace  $\mathcal{A}$  of  $X$  spanned by  $H$ , then  $U$  has a fixed point in  $\bar{G}$ . This result is then used to obtain some fixed point theorems for non-expansive and pseudo-contractive mappings. It may be compared with a recent result of W. V. Petryshyn for "condensing mappings," a class of mappings more general than the contraction mappings. Petryshyn has shown that if  $G$  is bounded with  $0$  in the interior of  $G$  and if  $U: \bar{G} \rightarrow X$  is a condensing mapping satisfying  $U(x) = \alpha x$  implies  $\alpha \leq 1$  for  $x$  on the boundary of  $G$ , then  $U$  has a fixed point in  $\bar{G}$ . This paper shows that for contraction mappings  $G$  need not be bounded, and under certain circumstances,  $0$  may be on the boundary of  $G$ .

**1. Introduction.** Although we restrict our attention in this paper to contraction, nonexpansive, and pseudo-contractive mappings, we will compare our principal results with a recent theorem of W. V. Petryshyn for "condensing mappings." We begin with a description of Petryshyn's result.

For a bounded subset  $A$  of a real Banach space  $X$ , let  $\gamma(A)$  denote the measure of noncompactness of  $A$  [17], that is,

$$\gamma(A) = \inf\{d : A \text{ can be covered by a finite number of sets each of diameter } \leq d\}.$$

Following [22] we say that a continuous mapping  $T: G \rightarrow X$ ,  $G \subset X$ , is *condensing* if for every bounded set  $A \subset G$  such that  $\gamma(T(A)) < \gamma(A)$ . This class of mappings includes mappings of the form  $T = S + C$  where  $S$  is a contraction mapping (i.e., there exists  $k < 1$  such that  $\|S(x) - S(y)\| \leq k\|x - y\|$  for all  $x, y \in G$ ) and  $C$  a compact mapping of  $G$  into  $X$ .

Received by the editors February 2, 1972.

AMS 1970 subject classifications: Primary 47H10; Secondary 54H25.

<sup>1</sup>Research of the first author partially supported by the Universidad de Concepción, Concepción, Chile. Research of the second author supported by National Science Foundation grant GP 18045.

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# Some Fixed Point Theorems Of Contraction Mappings In

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applications of the selected topics that have significant useful relevance to contemporary research *Nonlinear Analysis and Computational Techniques* Hemant Kumar Nashine, Ranis Ibragimov, Hemanta Kalita, 2025-08-22 The book focuses on the theory of fixed points which is a foundation for many branches of pure and applied mathematics Fixed point theorems have been studied in various function spaces The book contains modern results on these theorems investigated in generalized spaces such as S metric spaces convex metric spaces and bipolar metric spaces with applications in medical imaging The nonlinear analysis presented in the book is valuable for modeling and solving real world problems It includes work on specific nonlinear operators and nonlinear fractional integral equations in Banach spaces Relevant studies are also included on statistical convergence inventory model modeling computational techniques for Sentiment Analysis on Twitter Data and Blood Management applications The book is intended for young researchers interested in nonlinear analysis fixed point theory and computational techniques *Lectures on Some Fixed Point Theorems of Functional Analysis* F. F. Bonsall, 1962

**Geometry and Non-Convex Optimization** Panos M. Pardalos, Themistocles M. Rassias, 2025-07-24 This book offers a comprehensive exploration of the dynamic intersection between geometry and optimization It delves into the intricate study of Hermite Hadamard inequalities Hilbert type integral inequalities and variational inequalities providing a rich tapestry of theoretical insights and practical applications Readers will encounter a diverse array of topics including the bounds for the unweighted Jensen s gap of absolutely continuous functions and the properties of Barrelled and Bornological locally convex spaces The volume also covers advanced subjects such as multiobjective mixed integer nonlinear optimization and optimum statistical analysis on sphere surfaces Contributions from eminent scholars provide a deep dive into C ternary biderivations Erd s Szekeres products and variational principles making this book a must read for those seeking to expand their understanding of these complex fields Ideal for researchers and scholars in mathematics and optimization this volume is an invaluable resource for anyone interested in the latest developments in geometry and nonconvex optimization Whether you are a seasoned academic or a graduate student this book will enhance your knowledge and inspire further research in these fascinating domains

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*Recent Trends in Design, Materials and Manufacturing* Manvandra Kumar Singh, Rakesh Kumar Gautam, 2022-04-29 The book presents the select proceedings of the International Conference on Recent Advances in Design Materials and Manufacturing ICRADMM 2020 The topics covered include structural mechanics kinematics and dynamics of machines mechanical structures and stress analysis noise and vibration analysis fault detection and condition monitoring optimization techniques mechatronics robotics product design and development tribology The book also discusses various properties and performance attributes of modern age design in mechanical engineering including their durability workability and carbon footprint The book will be a valuable reference for researchers and professionals interested in sustainable development in mechanical engineering design and allied fields

Nonlinear Operator Theory in Probabilistic Metric Spaces Shih-sen Chang, Yeol Je Cho, Sin-min Kang, 2001 The purpose of this book is to give a comprehensive introduction to the study of non linear operator theory in probabilistic metric spaces This book is introduced as a survey of the latest and new results on the following topics Basic theory of probabilistic metric spaces Fixed point theorems for single valued and multi valued mappings in probabilistic metric spaces Ekeland's variational principle and Caristi's fixed point theorem in probabilistic metric spaces Coincidence point theorems minimisation and fixed degree theorems in probabilistic metric spaces Probabilistic contractors accretive mappings and topological degree in probabilistic normed spaces Nonlinear semigroups and differential equations in probabilistic metric spaces KKM theorems minimax theorems and variational inequalities

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**Fixed Point Theory for Weakly Contractive Maps Defined Implicitly Using Multiplicative C-class Functions** Clement Ampadu, 2017-05-08 In this monograph we have defined the multiplicative version of weakly contractive mappings implicitly via the multiplicative C class function and obtained some fixed point theorems for such mappings in the multiplicative analogue of various spaces A nice feature of this monograph are the publishable exercise set which begs the reader to explore the beautiful connection between weakly contractive mappings c class function and their multiplicative analogue **Iterated Contraction Mappings and Fixed Point Theorems in Metric Spaces** Frank Hynes, 1972 **Seminar on Fixed Point Theory Cluj-Napoca**, 2002

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## **Table of Contents Some Fixed Point Theorems Of Contraction Mappings In**

1. Understanding the eBook Some Fixed Point Theorems Of Contraction Mappings In
  - The Rise of Digital Reading Some Fixed Point Theorems Of Contraction Mappings In
  - Advantages of eBooks Over Traditional Books
2. Identifying Some Fixed Point Theorems Of Contraction Mappings In
  - 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 Some Fixed Point Theorems Of Contraction Mappings In
  - User-Friendly Interface
4. Exploring eBook Recommendations from Some Fixed Point Theorems Of Contraction Mappings In
  - Personalized Recommendations
  - Some Fixed Point Theorems Of Contraction Mappings In User Reviews and Ratings
  - Some Fixed Point Theorems Of Contraction Mappings In and Bestseller Lists
5. Accessing Some Fixed Point Theorems Of Contraction Mappings In Free and Paid eBooks
  - Some Fixed Point Theorems Of Contraction Mappings In Public Domain eBooks
  - Some Fixed Point Theorems Of Contraction Mappings In eBook Subscription Services
  - Some Fixed Point Theorems Of Contraction Mappings In Budget-Friendly Options

6. Navigating Some Fixed Point Theorems Of Contraction Mappings In eBook Formats
  - ePub, PDF, MOBI, and More
  - Some Fixed Point Theorems Of Contraction Mappings In Compatibility with Devices
  - Some Fixed Point Theorems Of Contraction Mappings In Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Some Fixed Point Theorems Of Contraction Mappings In
  - Highlighting and Note-Taking Some Fixed Point Theorems Of Contraction Mappings In
  - Interactive Elements Some Fixed Point Theorems Of Contraction Mappings In
8. Staying Engaged with Some Fixed Point Theorems Of Contraction Mappings In
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Some Fixed Point Theorems Of Contraction Mappings In
9. Balancing eBooks and Physical Books Some Fixed Point Theorems Of Contraction Mappings In
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Some Fixed Point Theorems Of Contraction Mappings In
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Some Fixed Point Theorems Of Contraction Mappings In
  - Setting Reading Goals Some Fixed Point Theorems Of Contraction Mappings In
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Some Fixed Point Theorems Of Contraction Mappings In
  - Fact-Checking eBook Content of Some Fixed Point Theorems Of Contraction Mappings In
  - 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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