

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

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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 .

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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

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Fixed Point Theory in Metric Spaces Praveen Agarwal, Mohamed Jleli, Bessem Samet, 2018-10-13 This book provides a detailed study of recent results in metric fixed point theory and presents several applications in nonlinear analysis including matrix equations integral equations and polynomial approximations Each chapter is accompanied by basic definitions mathematical preliminaries and proof of the main results Divided into ten chapters it discusses topics such as the Banach contraction principle and its converse Ran Reurings fixed point theorem with applications the existence of fixed points for the class of contractive mappings with applications to quadratic integral equations recent results on fixed point theory for cyclic mappings with applications to the study of functional equations the generalization of the Banach fixed point theorem on Branciari metric spaces the existence of fixed points for a certain class of mappings satisfying an implicit contraction fixed point results for a class of mappings satisfying a certain contraction

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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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