

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

JUAN A. GATICA AND W. A. KIRK¹

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 $\gamma(A) \neq 0$ it is the case 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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Some Fixed Point Theorems Of Contraction Mappings In

Einar Hille



Some Fixed Point Theorems Of Contraction Mappings In:

Characterization Theorems Inspired By the Higher Order Banach Mapping II: Some Results in Multiplicative Cone b-Metric Space Clement Ampadu,2016-08-22 Serves as collateral reading for people interested in fixed point theorems for contractive type mappings Researchers in fixed point theory and their students will find it a delight to read Contains many exercises for further exploration Construction of theorems and proof writing is developed

Some Applications of Contraction Mappings and a Fixed Point Theorem William E. McBride,1964 **On Fixed Point Theorems in Some Types of Spaces** Abdullah Alaa,Alaa Abdullah,Salwa Abd,2014-03-11 In this book point theorems are proved for independent types of contraction mappings and also give a generalization of these cases by Ćirić's contraction mapping is given All these results are proved in complete orbitally complete or chainable orbitally complete G metric space in two states globally or locally Secondly the concepts of compatible semi compatible or weakly commuting are applied to prove common fixed point theorems for two mappings Also other results are formulated without any commuting condition to get common fixed points for two or more than two mappings Finally the new concept of G distance are presented in this book and used to introduce some important results in G metric space such as fixed point theorems non convex minimization theorem variational principle generalization of Ćirić's theorem and infinite fixed points Ćirić's theorem

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

Advanced Topics in Mathematical Analysis Michael Ruzhansky,Hemen Dutta,2019-01-08 Advanced Topics in Mathematical Analysis is aimed at researchers graduate students and educators with an interest in mathematical analysis and in mathematics more generally The book aims to present theory methods and applications of the selected topics that have significant useful relevance to contemporary research *Handbook of Metric Fixed Point Theory* W.A. Kirk,B. Sims,2013-04-17 Metric fixed point theory encompasses the branch of fixed point theory which metric conditions on the underlying space and or on the mappings play a fundamental role In some sense the theory is a far reaching outgrowth of Banach's contraction mapping principle A natural extension of the study of contractions is the limiting case when the Lipschitz constant is allowed to equal one Such mappings are called nonexpansive Nonexpansive

mappings arise in a variety of natural ways for example in the study of holomorphic mappings and hyperconvex metric spaces Because most of the spaces studied in analysis share many algebraic and topological properties as well as metric properties there is no clear line separating metric fixed point theory from the topological or set theoretic branch of the theory Also because of its metric underpinnings metric fixed point theory has provided the motivation for the study of many geometric properties of Banach spaces The contents of this Handbook reflect all of these facts The purpose of the Handbook is to provide a primary resource for anyone interested in fixed point theory with a metric flavor The goal is to provide information for those wishing to find results that might apply to their own work and for those wishing to obtain a deeper understanding of the theory The book should be of interest to a wide range of researchers in mathematical analysis as well as to those whose primary interest is the study of fixed point theory and the underlying spaces The level of exposition is directed to a wide audience including students and established researchers

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 Erdős 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

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

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 involving extended simulation functions the solvability of a coupled fixed point problem under a finite number of equality constraints the concept of generalized metric spaces for which the authors extend some well known fixed point results and a new fixed point theorem that helps in establishing a Kelisky Rivlin type result for q Bernstein polynomials and modified q Bernstein polynomials The book is a valuable resource for a wide audience including graduate students and researchers

Some Fixed Point Theorems in Metric Spaces Barbara Ann Moores Meade,1977 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 *Fixed-point Theorems for Multi-valued Functions and Their Applications to Functional Equations* Roman Węrzyk,1982 *Fixed Point Theorems and Special Solutions of Functional Equations* Stefan Czerwik,1980 Metrical Fixed Point Theorems Ioan A. Rus,1979 *On Fixed Point Theorems* Sankatha Prasad Singh,1974 *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

Mathematical Reviews ,2003 **Methods in Classical and Functional Analysis** Einar Hille,1991

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