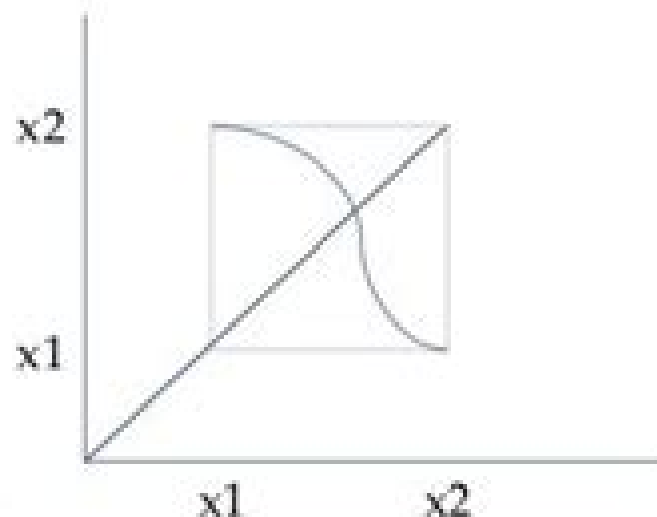


# The obvious fixed point theorem

- Every function that maps to itself in one dimension has a fixed point (a.k.a. the Intermediate-value theorem)



# Fixed Point Theorems

**LP Steffe**



## **Fixed Point Theorems:**

Fixed Point Theorems D. R. Smart, 1980-02-14      **Topics in Metric Fixed Point Theory** Kazimierz Goebel, W. A. Kirk, 1990 Metric Fixed Point Theory has proved a flourishing area of research for many mathematicians This book aims to offer the mathematical community an accessible self contained account which can be used as an introduction to the subject and its development It will be understandable to a wide audience including non specialists and provide a source of examples references and new approaches for those currently working in the subject      Fixed Point Theory and Applications Ravi P. Agarwal, Maria Meehan, Donal O'Regan, 2001-03-22 This book provides a clear exposition of the flourishing field of fixed point theory Starting from the basics of Banach's contraction theorem most of the main results and techniques are developed fixed point results are established for several classes of maps and the three main approaches to establishing continuation principles are presented The theory is applied to many areas of interest in analysis Topological considerations play a crucial role including a final chapter on the relationship with degree theory Researchers and graduate students in applicable analysis will find this to be a useful survey of the fundamental principles of the subject The very extensive bibliography and close to 100 exercises mean that it can be used both as a text and as a comprehensive reference work currently the only one of its type      **Fixed Point Theory** V.I. Istratescu, 2001-11-30 Approach your problems from the right It isn't that they can't see the solution It ends and begins with the answers Then is that they can't see the problem one day perhaps you will find the final G. K. Chesterton The Scandal of Father question Brown The Point of a Pin The Hermit Clad in Crane Feathers in R. Van Gulik's The Chinese Maze Murders Growing specialization and diversification have brought a host of monographs and textbooks on increasingly specialized topics However the tree of knowledge of mathematics and related fields does not grow only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially in regional and theoretical economics algebraic geometry interacts with physics the Minkowski lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electrical engineering can use Stein spaces      **Fixed Point Theorems and Applications** Vittorino Pata, 2019-09-22 This book addresses fixed point theory a fascinating and far reaching field with applications in several areas of mathematics The content is divided into two main parts The first which is more theoretical develops the main abstract theorems on the existence and uniqueness of fixed points of maps In turn the second part focuses on applications covering a large variety of significant results ranging from ordinary differential equations in Banach spaces to partial differential equations operator theory functional analysis measure theory and game theory A final section containing 50 problems many of which include helpful hints rounds out the coverage Intended for Master's and PhD

students in Mathematics or more generally mathematically oriented subjects the book is designed to be largely self contained although some mathematical background is needed readers should be familiar with measure theory Banach and Hilbert spaces locally convex topological vector spaces and in general with linear functional analysis

*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 emphasis 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

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

**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.

**Multiple Fixed-Point Theorems and Applications in the Theory of ODEs, FDEs and PDEs** Svetlin G. Georgiev, Khaled Zennir, 2020-06-09 Multiple Fixed Point Theorems and Applications in the Theory of ODEs, FDEs and PDEs covers all the basics of the subject of fixed point theory and its applications with a strong focus on examples, proofs and practical problems thus making it ideal as course material but also as a reference for self study. Many problems in science lead to nonlinear equations  $T \circ F \circ x$  posed in some closed convex subset of a Banach space. In particular ordinary, fractional, partial differential equations and integral equations can be formulated like these abstract equations. It is desirable to develop fixed point theorems for such equations. In this book the authors investigate the existence of multiple fixed points for some operators that are of the form  $T \circ F$  where  $T$  is an expansive operator and  $F$  is a  $k$  set contraction. This book offers the reader an overview of recent developments of multiple fixed point theorems and their applications. About the Authors: Svetlin G. Georgiev is a mathematician who has worked in various areas of mathematics. He currently focuses on harmonic analysis, functional analysis, partial differential equations, ordinary differential equations, Clifford and quaternion analysis, integral equations and dynamic calculus on time scales. Khaled Zennir is assistant professor at Qassim University, KSA. He received his PhD in mathematics in 2013 from Sidi Bel Abbès University, Algeria. He obtained his Habilitation in mathematics from Constantine University, Algeria in 2015. His research interests lie in nonlinear hyperbolic partial differential equations, global existence, blow up and long time behavior.

**From Sperner's Lemma to Differential Equations in Banach Spaces : An Introduction to Fixed Point Theorems and their Applications** Schaefer, Uwe, 2014-12-03 Based on Sperner's lemma the fixed point theorem of Brouwer is proved. Rather than presenting also other beautiful proofs of Brouwer's fixed point theorem many nice applications are given in some detail. Also Schauder's fixed point theorem is presented which can be viewed as a natural generalization of Brouwer's fixed point theorem to an infinite dimensional setting. Finally Tarski's fixed point theorem is applied to differential equations in Banach spaces.

Fixed Point Theorems with Applications to Economics and Game

Theory Kim C. Border, 1985 This book explores fixed point theorems and its uses in economics co operative and noncooperative games      Advances in Metric Fixed Point Theory and Applications Yeol Je Cho, Mohamed Jleli, Mohammad Mursaleen, Bessem Samet, Calogero Vetro, 2021-05-04 This book collects papers on major topics in fixed point theory and its applications Each chapter is accompanied by basic notions mathematical preliminaries and proofs of the main results The book discusses common fixed point theory convergence theorems split variational inclusion problems and fixed point problems for asymptotically nonexpansive semigroups fixed point property and almost fixed point property in digital spaces nonexpansive semigroups over CAT spaces measures of noncompactness integral equations the study of fixed points that are zeros of a given function best proximity point theory monotone mappings in modular function spaces fuzzy contractive mappings ordered hyperbolic metric spaces generalized contractions in b metric spaces multi tupled fixed points functional equations in dynamic programming and Picard operators This book addresses the mathematical community working with methods and tools of nonlinear analysis It also serves as a reference source for examples and new approaches associated with fixed point theory and its applications for a wide audience including graduate students and researchers      **Fixed Point Theorems and Their Applications** Ioannis Farmakis, Martin A. Moskowitz, 2013 This is the only book that deals comprehensively with fixed point theorems overall of mathematics Their importance is due as the book demonstrates to their wide applicability Beyond the first chapter each of the other seven can be read independently of the others so the reader has much flexibility to follow his her own interests The book is written for graduate students and professional mathematicians and could be of interest to physicists economists and engineers      Fixed Point Theory Andrzej Granas, James Dugundji, 2013-03-09 The aim of this monograph is to give a unified account of the classical topics in fixed point theory that lie on the border line of topology and non linear functional analysis emphasizing developments related to the Leray Schauder theory Using for the most part geometric methods our study centers around formulating those general principles of the theory that provide the foundation for many of the modern results in diverse areas of mathematics The main text is self contained for readers with a modest knowledge of topology and functional analysis the necessary background material is collected in an appendix or developed as needed Only the last chapter presupposes some familiarity with more advanced parts of algebraic topology The Miscellaneous Results and Examples given in the form of exercises form an integral part of the book and describe further applications and extensions of the theory Most of these additional results can be established by the methods developed in the book and no proof in the main text relies on any of them more demanding problems are marked by an asterisk The Notes and Comments at the end of paragraphs contain references to the literature and give some further information about the results in the text      *An In-Depth Guide to Fixed-Point Theorems* Rajinder Sharma (Mathematics), 2021 This book details fixed point theory a gripping and wide ranging field with applications in multifold areas of pure and applied mathematics The content comprises both theoretical and practical applications The evolution of the main

theorems on the existence and uniqueness of fixed points of maps are presented Applications covering topological properties a nonlinear stochastic integral equation of the Hammerstein type the existence and uniqueness of a common solution of the system of Urysohn integral equations and the existence of a unique solution for linear equations system are included in this selection Since the included chapters range from broad elucidations to functional research papers the book provides readers with a satisfying analysis of the subject as well as a more comprehensive look at some functional recent advances

Metric Structures and Fixed Point Theory Dhananjay Gopal, Praveen Agarwal, Poom Kumam, 2021-04-08 It is an indisputable argument that the formulation of metrics by Fréchet in the early 1900s opened a new subject in mathematics called non linear analysis after the appearance of Banach's fixed point theorem Because the underlying space of this theorem is a metric space the theory that developed following its publication is known as metric fixed point theory It is well known that metric fixed point theory provides essential tools for solving problems arising in various branches of mathematics and other sciences such as split feasibility problems variational inequality problems non linear optimization problems equilibrium problems selection and matching problems and problems of proving the existence of solutions of integral and differential equations are closely related to fixed point theory For this reason many people over the past seventy years have tried to generalize the definition of metric space and corresponding fixed point theory This trend still continues A few questions lying at the heart of the theory remain open and there are many unanswered questions regarding the limits to which the theory may be extended Metric Structures and Fixed Point Theory provides an extensive understanding and the latest updates on the subject The book not only shows diversified aspects of popular generalizations of metric spaces such as symmetric b metric w distance G metric modular metric probabilistic metric fuzzy metric graphical metric and corresponding fixed point theory but also motivates work on existing open problems on the subject Each of the nine chapters contributed by various authors contains an Introduction section which summarizes the material needed to read the chapter independently of the others and contains the necessary background several examples and comprehensive literature to comprehend the concepts presented therein This is helpful for those who want to pursue their research career in metric fixed point theory and its related areas Features Explores the latest research and developments in fixed point theory on the most popular generalizations of metric spaces Description of various generalizations of metric spaces Very new topics on fixed point theory in graphical and modular metric spaces Enriched with examples and open problems This book serves as a reference for scientific investigators who need to analyze a simple and direct presentation of the fundamentals of the theory of metric fixed points It may also be used as a text book for postgraduate and research students who are trying to derive future research scope in this area

*Fixed Point Theory and Variational Principles in Metric Spaces* Qamrul Hasan Ansari, Daya Ram Sahu, 2023-09-21 The book is designed for undergraduates graduates and researchers of mathematics studying fixed point theory or nonlinear analysis It deals with the fixed point theory for not only single valued maps but also set valued maps The text is divided into three parts fixed point

theory for single valued mappings continuity and fixed point aspects of set valued analysis and variational principles and their equilibrium problems It comprises a comprehensive study of these topics and includes all important results derived from them The applications of fixed point principles and variational principles and their generalizations to differential equations and optimization are covered in the text An elementary treatment of the theory of equilibrium problems and equilibrium version of Ekeland's variational principle is also provided New topics such as equilibrium problems variational principles Caristi's fixed point theorem and Takahashi's minimization theorem with their applications are also included

Fixed Point Theory and Related Topics Hsien-Chung Wu, 2020-03-13 Fixed point theory arose from the Banach contraction principle and has been studied for a long time Its application mostly relies on the existence of solutions to mathematical problems that are formulated from economics and engineering After the existence of the solutions is guaranteed the numerical methodology will be established to obtain the approximated solution Fixed points of function depend heavily on the considered spaces that are defined using the intuitive axioms In particular variant metrics spaces are proposed like a partial metric space b metric space fuzzy metric space and probabilistic metric space etc Different spaces will result in different types of fixed point theorems In other words there are a lot of different types of fixed point theorems in the literature Therefore this Special Issue welcomes survey articles Articles that unify the different types of fixed point theorems are also very welcome The topics of this Special Issue include the following Fixed point theorems in metric space Fixed point theorems in fuzzy metric space Fixed point theorems in probabilistic metric space Fixed point theorems of set valued functions in various spaces The existence of solutions in game theory The existence of solutions for equilibrium problems The existence of solutions of differential equations The existence of solutions of integral equations Numerical methods for obtaining the approximated fixed points *Fixed Point Theory for Lipschitzian-type Mappings with Applications* Ravi P.

Agarwal, Donal O'Regan, D. R. Sahu, 2009-06-12 In recent years the fixed point theory of Lipschitzian type mappings has rapidly grown into an important field of study in both pure and applied mathematics It has become one of the most essential tools in nonlinear functional analysis This self contained book provides the first systematic presentation of Lipschitzian type mappings in metric and Banach spaces The first chapter covers some basic properties of metric and Banach spaces Geometric considerations of underlying spaces play a prominent role in developing and understanding the theory The next two chapters provide background in terms of convexity smoothness and geometric coefficients of Banach spaces including duality mappings and metric projection mappings This is followed by results on existence of fixed points approximation of fixed points by iterative methods and strong convergence theorems The final chapter explores several applicable problems arising in related fields This book can be used as a textbook and as a reference for graduate students researchers and applied mathematicians working in nonlinear functional analysis operator theory approximations by iteration theory convexity and related geometric topics and best approximation theory **Fixed Point Theory in Metric Type Spaces** Ravi



P. Agarwal, Erdal KARAPINAR, Donal O'Regan, Antonio Francisco Roldán-López-de-Hierro, 2016-03-24 Written by a team of leading experts in the field this volume presents a self contained account of the theory techniques and results in metric type spaces in particular in G metric spaces that is the text approaches this important area of fixed point analysis beginning from the basic ideas of metric space topology The text is structured so that it leads the reader from preliminaries and historical notes on metric spaces in particular G metric spaces and on mappings to Banach type contraction theorems in metric type spaces fixed point theory in partially ordered G metric spaces fixed point theory for expansive mappings in metric type spaces generalizations present results and techniques in a very general abstract setting and framework Fixed point theory is one of the major research areas in nonlinear analysis This is partly due to the fact that in many real world problems fixed point theory is the basic mathematical tool used to establish the existence of solutions to problems which arise naturally in applications As a result fixed point theory is an important area of study in pure and applied mathematics and it is a flourishing area of research

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