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Fixed Point Theory

**Dhananjay Gopal, Praveen
Agarwal, Poom Kumam**



Fixed Point Theory:

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

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 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

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

Advances in Functional Analysis and Fixed-Point Theory Bipan Hazarika, Santanu Acharjee, Dragan S. Djordjević, 2024-04-22 This book presents a curated selection of recent research in functional analysis and fixed point theory exploring their applications in interdisciplinary fields The primary objective is to establish a connection between the latest developments in functional analysis and fixed point theory and the broader interdisciplinary research landscape By doing so this book aims to address the needs of researchers and experts seeking to stay up to date with the cutting edge research trends in functional analysis fixed point theory and related areas It also aims to pave the way for applying functional analysis and fixed point theory to solve interdisciplinary problems in various domains including but not limited to fractional calculus integral equations queueing theory convex analysis harmonic analysis and wavelet analysis

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

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 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

Fixed Point Theory and Fractional Calculus Pradip Debnath,H. M. Srivastava,Poom Kumam,Bipan Hazarika,2022-05-10 This book collects chapters on fixed point theory and fractional calculus and their applications in science and engineering It discusses state of the art developments in these two

areas through original new contributions from scientists across the world It contains several useful tools and techniques to develop their skills and expertise in fixed point theory and fractional calculus New research directions are also indicated in chapters This book is meant for graduate students and researchers willing to expand their knowledge in these areas The minimum prerequisite for readers is the graduate level knowledge of analysis topology and functional analysis

Handbook of Topological Fixed Point Theory Robert F. Brown, Massimo Furi, L. Gorniewicz, Boju Jiang, 2005-12-05 This book is the first in the world literature presenting all new trends in topological fixed point theory Until now all books connected to the topological fixed point theory were devoted only to some parts of this theory This book will be especially useful for post graduate students and researchers interested in the fixed point theory particularly in topological methods in nonlinear analysis differential equations and dynamical systems The content is also likely to stimulate the interest of mathematical economists population dynamics experts as well as theoretical physicists exploring the topological dynamics

Topics in Fixed Point Theory Saleh Almezal, Qamrul Hasan Ansari, Mohamed Amine Khamsi, 2013-11-30 **Fixed Points** Ūriĭ Alekseevich Shashkin, 1989 The theory of fixed points finds its roots in the work of Poincare Brouwer and Sperner and makes extensive use of such topological notions as continuity compactness homotopy and the degree of a mapping Fixed point theorems have numerous applications in mathematics most of the theorems ensuring the existence of solutions for differential integral operator or other equations can be reduced to fixed point theorems In addition these theorems are used in such areas as mathematical economics and game theory This book presents a readable exposition of fixed point theory The author focuses on the problem of whether a closed interval square disk or sphere has the fixed point property Another aim of the book is to show how fixed point theory uses combinatorial ideas related to decomposition triangulation of figures into distinct parts called faces simplexes which adjoin each other in a regular fashion All necessary background concepts such as continuity compactness degree of a map and so on are explained making the book accessible even to students at the high school level In addition the book contains exercises and descriptions of applications Readers will appreciate this book for its lucid presentation of this fundamental mathematical topic **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 Frchet 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

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 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 *Fixed Point Theory And Applications - Proceedings Of The Second International Conference* Kok Keong Tan,1992-08-08 This volume contains current works of researchers from twelve different countries on fixed point theory and applications Topics include in part nonexpansive mappings multifunctions minimax inequalities applications to game theory and computation of fixed points It is valuable to pure and applied mathematicians as well as computing scientists and mathematical economists Fixed Point Theory and Best Approximation: The KKM-map Principle S.P. Singh,B. Watson,P. Srivastava,2013-04-17 The aim of this volume is to make available to a large audience recent material in nonlinear functional analysis that has not been covered in book format before Here several topics of current and growing interest are systematically presented such as fixed point theory best approximation the KKM map principle and results related to optimization theory variational inequalities and complementarity problems Illustrations of suitable applications are given the links between results in various fields of research are highlighted and an up to date bibliography is included to assist readers in further studies Audience This book will be of interest to graduate students researchers and applied mathematicians working in nonlinear functional analysis operator theory approximations and expansions convex sets and related geometric topics and game theory Fixed Point Theory and Applications Yeol Je Cho,2002 **Fixed Point Theory Applications Volume II** **Fixed Point Theory and Variational Principles in Metric Spaces** Qamrul Hasan Ansari,Daya Ram Sahu,2023-09-21 A book covering theory and examples for undergraduates graduates and researchers studying fixed point theory or nonlinear analysis

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