

A Study On Fixed Point Theory With Applications

Fixed Point Theory and Applications Critical Point Theory and Hamiltonian Systems Topics in Fixed Point Theory Recent Developments in Fixed-Point Theory Topics in Critical Point Theory Advances in Metric Fixed Point Theory and Applications Homotopy Methods in Topological Fixed and Periodic Points Theory Handbook of Topological Fixed Point Theory Game Theory with Engineering Applications Fixed Point Theory Fixed Point Theory in Metric Spaces Handbook of Metric Fixed Point Theory Topics in Metric Fixed Point Theory Fixed Point Theory and Its Applications Fixed Point Theory and Its Applications to Real World Problems Fixed Point Theory in Ordered Sets and Applications Fixed Point Theory And Applications - Proceedings Of The Second International Conference A Study On Fixed Point Theory With Applications Fixed Point Theory and Applications Metric Fixed Point Theory Ravi P. Agarwal Jean Mawhin Saleh Almezal Mudasir Younis Kanishka Perera Yeol Je Cho Jerzy Jezierski Robert F. Brown Dario Bauso V.I. Istratescu Praveen Agarwal W.A. Kirk Kazimierz Goebel Jacek Jachymski Anita Tomar Siegfried Carl Kok Keong Tan Suranjoy Singh Yeol Je Cho Pradip Debnath

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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

Over the last decade has seen a tremendous development in critical point theory in infinite dimensional spaces and its application to nonlinear boundary value problems in particular striking results were obtained in the classical problem of periodic solutions of hamiltonian systems this book provides a systematic presentation of the most basic tools of critical point theory minimization convex functions and fenchel transform dual least action principle ekeland variational principle minimax methods lusternik schirelmann theory for Z_2 and S^1 symmetries morse theory for possibly degenerate critical points and non degenerate critical manifolds each technique is illustrated by applications to the discussion of the existence multiplicity and bifurcation of the periodic solutions of hamiltonian systems among the treated questions are the periodic solutions with fixed period or fixed energy of autonomous systems the existence of subharmonics in the non autonomous case the asymptotically linear hamiltonian systems free and forced superlinear problems application of those results to the equations of mechanical pendulum to josephson systems of solid state physics and to questions from celestial mechanics are given the aim of the book is to introduce a reader familiar to more classical techniques of ordinary differential equations to the powerful approach of modern critical point theory the style of the exposition has been adapted to this goal the new topological tools are introduced in a progressive but detailed way and immediately applied to differential equation problems the abstract tools can also be applied to partial differential equations and the reader will also find the basic references in this direction in the bibliography of more than 500 items which concludes the book

This contributed book has a comprehensive collection of 17 carefully curated chapters that delve into the latest advancements in fixed point theory and its diverse applications it bridges the gap between theory and practicality providing readers with a deep understanding of fundamental theorems related to the existence and uniqueness of maps the book covers a wide array of applications each showcasing the relevance of fixed point theory in various domains readers will explore applications dealing with topological properties the resolution of integral equations across multiple classes nonlinear differential equations fractional differential equations dynamic programming problems and engineering science related challenges this diverse range of topics ensures that the book caters to both theoretical researchers and practitioners seeking real world solutions the primary feature of the book is the pictorial depictions of examples making complex concepts more accessible and understandable these visual representations enhance the learning experience enabling readers to grasp the enunciated outcomes effortlessly the book stands as an essential reference for scholars researchers and professionals interested in the theoretical foundations and practical implications of fixed point theory its blend of theoretical insights and real world applications makes it an indispensable addition to the field of mathematics and its interdisciplinary

applications

this book introduces the reader to powerful methods of critical point theory and details successful contemporary approaches to many problems some of which had proved resistant to attack by older methods topics covered include morse theory critical groups the minimax principle various notions of linking jumping nonlinearities and the fučík spectrum in an abstract setting sandwich pairs and the cohomological index applications to semilinear elliptic boundary value problems p laplacian problems and anisotropic systems are given written for graduate students and research scientists the book includes numerous examples and presents more recent developments in the subject to bring the reader up to date with the latest research

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 $\text{cat } k$ 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

the notion of a fixed point plays a crucial role in numerous branches of mathematics and its applications information about the existence of such points is often the crucial argument in solving a problem in particular topological methods of fixed point theory have been an increasing focus of interest over the last century these topological methods of fixed point theory are divided roughly speaking into two types the first type includes such as the banach contraction principle where the assumptions on the space can be very mild but a small change of the map can remove the fixed point the second type on the other hand such as the brouwer and lefschetz fixed point theorems give the existence of a fixed point not only for a given map but also for any its deformations this book is an exposition of a part of the topological fixed and periodic point theory of this second type based on the notions of lefschetz and nielsen numbers since both notions are homotopy invariants the deformation is used as an essential method and the assertions of theorems typically state the existence of fixed or periodic points for every map of the whole homotopy class we refer to them as homotopy methods of the topological fixed and periodic point theory

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

engineering systems are highly distributed collective systems that have humans in the loop engineering systems emphasize the potential of control and games beyond traditional applications game theory can be used to design incentives to obtain socially desirable behaviors on the part of the players for example a change in the consumption patterns on the part of the prosumers producers consumers or better redistribution of traffic this unique book addresses the foundations of game theory with an emphasis on the physical intuition behind the concepts an analysis of design techniques and a discussion of new trends in the study of cooperation and competition in large complex distributed systems

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 minkowsky 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

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 $\alpha \psi$ 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

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

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 initially emerged in the article demonstrating existence of solutions of differential equations which appeared in the second quarter of the 18th century joseph liouville 1837 later on this technique was improved as a method of successive approximations charles emile picard 1890 which was extracted and abstracted as a fixed point theorem in the framework of complete normed space stefan banach 1922 it ensures presence as well as uniqueness of a fixed point gives an approximate technique to really locate the fixed point and the a priori and a posteriori estimates for the rate of convergence it is an essential device in the theory of metric spaces subsequently it is stated that fixed point theory is initiated by stefan banach fixed point theorems give adequate

conditions under which there exists a fixed point for a given function and enable us to ensure the existence of a solution of the original problem in an extensive variety of scientific issues beginning from different branches of mathematics the existence of a solution is comparable to the existence of a fixed point for a suitable mapping the book fixed point theory its applications to real world problems is an endeavour to present results in fixed point theory which are extensions improvements and generalizations of classical and recent results in this area and touches on distinct research directions within the metric fixed point theory it provides new openings for further exploration and makes for an easily accessible source of knowledge this book is apposite for young researchers who want to pursue their research in fixed point theory and is the latest in the field giving new techniques for the existence of a superior fixed point a fixed point a near fixed point a fixed circle a near fixed interval circle a fixed disc a near fixed interval disc a coincidence point a common fixed point a coupled common fixed point amiable fixed sets strong coupled fixed points and so on utilizing minimal conditions it offers novel applications besides traditional applications which are applicable to real world problems the book is self contained and unified which will serve as a reference book to researchers who are in search of novel ideas it will be a valued addition to the library

this monograph provides a unified and comprehensive treatment of an order theoretic fixed point theory in partially ordered sets and its various useful interactions with topological structures the material progresses systematically by presenting the preliminaries before moving to more advanced topics in the treatment of the applications a wide range of mathematical theories and methods from nonlinear analysis and integration theory are applied an outline of which has been given an appendix chapter to make the book self contained graduate students and researchers in nonlinear analysis pure and applied mathematics game theory and mathematical economics will find this book useful

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 is an attractive and interesting subject with a large number of applications in various fields of mathematics and other branches of science the main intention of writing this book is as the topic of the book a study on fixed point theory with applications implies is to give a rough idea of the basic types some important theorems and a few common applications of fixed point theory and also to enhance my career as a mathematician in the field of fixed point theory the book will serve good for the beginners in the field of fixed point in the similar manner as i was benefited from the valuable contents provided in the book in writing this book the works of standard authors have been a great help and i am greatly indebted to them above all research papers and articles of eminent researchers and authors and internet too were very useful while completing this book last but not the least the support my wife mrs h

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the aim of this volume is to introduce recent new topics in the areas of fixed point theory variational inequality and complementarity problem theory non linear ergodic theory difference differential and integral equations control and optimisation theory dynamic system theory inequality theory stochastic analysis and probability theory and their applications

this book collects chapters on contemporary topics on metric fixed point theory and its applications in science engineering fractals and behavioral sciences chapters contributed by renowned researchers from across the world this book includes several useful tools and techniques for the development of skills and expertise in the area the book presents the study of common fixed points in a generalized metric space and fixed point results with applications in various modular metric spaces new insight into parametric metric spaces as well as study of variational inequalities and variational control problems have been included

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