

CONTEMPORARY MATHEMATICS

Topological Methods in Nonlinear Functional Analysis

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Topological Methods In Nonlinear Functional Analysis Contemporary Mathematics

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Topological Methods In Nonlinear Functional Analysis Contemporary Mathematics:

Topological Methods in Nonlinear Functional Analysis Sankatha Prasad Singh, S. Thomeier, B. Watson, 1983 Covers the proceedings of the session on Fixed Point Theory and Applications held at the University of Toronto August 21-26 1982 This work presents theorems on the existence of fixed points of nonexpansive mappings and the convergence of the sequence of iterates of nonexpansive and quasi nonexpansive mappings

Variational, Topological, and Partial Order Methods with Their Applications Zhitao Zhang, 2012-09-18 Nonlinear functional analysis is an important branch of contemporary mathematics It is related to topology ordinary differential equations partial differential equations groups dynamical systems differential geometry measure theory and more In this book the author presents some new and interesting results on fundamental methods in nonlinear functional analysis namely variational topological and partial order methods which have been used extensively to solve existence of solutions for elliptic equations wave equations Schrödinger equations Hamiltonian systems etc and are also used to study the existence of multiple solutions and properties of solutions This book is useful for researchers and graduate students in the field of nonlinear 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

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

New Computational Paradigms S.B. Cooper, Benedikt

Löwe, Andrea Sorbi, 2007-11-28 This superb exposition of a complex subject examines new developments in the theory and practice of computation from a mathematical perspective with topics ranging from classical computability to complexity from biocomputing to quantum computing This book is suitable for researchers and graduate students in mathematics philosophy and computer science with a special interest in logic and foundational issues Most useful to graduate students are the survey papers on computable analysis and biological computing Logicians and theoretical physicists will also benefit from this book

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

Nonlinear Analysis in Geometry and Topology Themistocles M. Rassias, 2000 **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

Enumerative Algebraic Geometry Steven L. Kleiman, Anders Thorup, 1991 1989 marked the 150th anniversary of the birth of the great Danish mathematician Hieronymus George Zeuthen Zeuthen s name is known to every algebraic geometer because of his discovery of a basic invariant of surfaces However he also did fundamental research in intersection theory enumerative geometry and the projective geometry of curves and surfaces Zeuthen s extraordinary devotion to his subject his characteristic depth thoroughness and clarity of thought and his precise and succinct writing style are truly inspiring During the past ten years or so algebraic geometers have reexamined Zeuthen s work drawing from it inspiration and new directions for development in the field The 1989 Zeuthen Symposium held in the summer of 1989 at the Mathematical Institute of the University of Copenhagen provided a historic opportunity for mathematicians to gather and examine those areas in contemporary mathematical research which have evolved from Zeuthen s fruitful ideas This volume containing papers presented during the

symposium as well as others inspired by it illuminates some currently active areas of research in enumerative algebraic geometry

Journal of Nonlinear and Convex Analysis ,2003 **Inverse Scattering and Applications** David H. Sattinger,1991 This book presents papers given at a Conference on Inverse Scattering on the Line held in June 1990 at the University of Massachusetts Amherst A wide variety of topics in inverse problems were covered inverse scattering problems on the line inverse problems in higher dimensions inverse conductivity problems and numerical methods In addition problems from statistical physics were covered including monodromy problems quantum inverse scattering and the Bethe ansatz One of the aims of the conference was to bring together researchers in a variety of areas of inverse problems which have seen intensive activity in recent years scattering

Topological Degree with Applications Giovanni Vidossich,2026-04-21 This book is unique in the current scenario because it provides a complete treatment of modern Brouwer and of Leray Schauder degree theories including detailed proofs and selected applications to differential equations In addition new results and open problems appear throughout It aims to introduce Ph D students to research on nonlinear boundary value problems for ordinary elliptic and evolution equations using the topological methods of nonlinear functional analysis It is suitable for self study as all proofs are detailed with prerequisites provided when necessary It is based on personal notes compiled over more than forty years of teaching GV studied Mathematics in Pisa during the 1960s with G Stampacchia as supervisor He has been professor at the Universities of Brasilia and Trieste ending his career at SISSA the research institute he co founded together with P Budinich L Fonda and L Stasi He has held visiting positions in Brazil Peru Somalia South Africa and USA After an initial activity in General Topology his main research topic has become BVPs of ODEs in connection with the topological methods of Nonlinear Functional Analysis *Proceedings of the American Mathematical Society* American Mathematical Society,1999 Contains the material formerly published in even numbered issues of the Bulletin of the American Mathematical Society

Annales Academiae Scientiarum Fennicae. Series A. I, Mathematica ,1986 **Catalogue, Books and Journals in Advanced Mathematics** American Mathematical Society,1985

Fundamenta Mathematicae ,1986 **Upper Density Properties of Hausdorff Measures on Fractals** Arto Salli,1985

Soochow Journal of Mathematics ,1990 Annales Academiae Scientiarum Fennicae ,1985 **Mathematica Japonicae** ,1999

Topological Methods In Nonlinear Functional Analysis Contemporary Mathematics Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Topological Methods In Nonlinear Functional Analysis Contemporary Mathematics**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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