Jorge Ize, Alfonso Vignoli

EQUIVARIANT DEGREE THEORY

Equivariant Degree Theory

Stefan Schwede

Equivariant Degree Theory:

   Equivariant Degree Theory Jorge Ize,Alfonso Vignoli,2008-08-22 This book presents a new degree theory for maps which commute with a group of symmetries This degree is no longer a single integer but an element of the group of equivariant homotopy classes of maps between two spheres and depends on the orbit types of the spaces The authors develop completely the theory and applications of this degree in a self contained presentation starting with only elementary facts The first chapter explains the basic tools of representation theory homotopy theory and differential equations needed in the text Then the degree is defined and its main abstract properties are derived The next part is devoted to the study of equivariant homotopy groups of spheres and to the classification of equivariant maps in the case of abelian actions These groups are explicitely computed and the effects of symmetry breaking products and composition are thoroughly studied The last part deals with computations of the equivariant index of an isolated orbit and of an isolated loop of stationary points Here differential equations in a variety of situations are considered symmetry breaking forcing period doubling twisted orbits first integrals gradients etc Periodic solutions of Hamiltonian systems in particular spring pendulum systems are studied as well as Hopf bifurcation for all these situations   **Degree Theory for Equivariant Maps** Jorge Ize,2014-08-31 This work is devoted to a detailed study of the equivariant degree and its applications for the case of an S 1 action This degree is an element of the equivariant homotopy group of spheres which are computed in step by step extension process Applications include the index of an isolated orbit branching and Hopf bifurcation and period doubling and symmetry breaking for systems of autonomous differential equations The authors have paid special attention to making the text as self contained as possible so that the only background required is some familiarity with the basic ideas of homotopy theory and of Floquet theory in differential equations Illustrating in a natural way the interplay between topology and analysis this book will be of interest to researchers and graduate students   **Degree Theory for Equivariant Maps, the General S^1-Action** Jorge Ize,Ivar Massabo,Alfonso Vignoli,1992 In this paper we consider general italic S1 actions which may differ on the domain and on the range with isotropy subspaces with one dimension more on the domain In the special case of self maps the italic S1 degree is given by the usual degree of the invariant part while for one parameter italic S1 maps one has an integer for each isotropy subgroup different from italic S1 In particular we recover all the italic S1 degrees introduced in special cases by other authors and we are also able to interpret period doubling results on the basis of our italic S1 degree The applications concern essentially periodic solutions of ordinary differential equations   **Degree Theory and Symmetric Equations Assisted by GAP System** Zalman Balanov,Wieslaw Krawcewicz,Dmitrii Rachinskii,Hao-Pin Wu,Jianshe Yu,2025-01-30 Symmetries are a common feature of real world phenomena in many fields including physics biology materials science and engineering They can help understand the behavior of a system and optimize engineering designs Nonlinear effects such as delays nonsmoothness and hysteresis can have a significant impact on the dynamics and contribute to the increased complexity of

symmetric systems The goal of this book is to provide a complete theoretical and practical manual for studying a large class of dynamical problems with symmetries using degree theory methods To study the impact of symmetries on the occurrence of periodic solutions in dynamical systems special variants of the Brouwer degree the Brouwer equivariant degree and the twisted equivariant degree are developed to predict patterns regularities and symmetries of solutions Applications to specific dynamical systems and examples are supported by a software package integrated with the GAP system which provides assistance in the group theoretic computations involved in equivariant analysis This book is intended for readers with a basic knowledge of analysis and algebra including researchers in pure and applied mathematical analysis graduate students and scientists interested in areas involving mathematical modeling of symmetric phenomena The text is self contained and the necessary background material is provided in the appendices **Geometric Methods in Degree Theory for Equivariant Maps** Alexander M. Kushkuley,Zalman I. Balanov,2006-11-14 The book introduces conceptually simple geometric ideas based on the existence of fundamental domains for metric G spaces A list of the problems discussed includes Borsuk Ulam type theorems for degrees of equivariant maps in finite and infinite dimensional cases extensions of equivariant maps and equivariant homotopy classification genus and G category elliptic boundary value problem equivalence of p group representations The new results and geometric clarification of several known theorems presented here will make it interesting and useful for specialists in equivariant topology and its applications to non linear analysis and representation theory **Mapping Degree Theory** Enrique Outerelo,Jes⬜s M. Ruiz,2009-11-12 This textbook treats the classical parts of mapping degree theory with a detailed account of its history traced back to the first half of the 18th century After a historical first chapter the remaining four chapters develop the mathematics An effort is made to use only elementary methods resulting in a self contained presentation Even so the book arrives at some truly outstanding theorems the classification of homotopy classes for spheres and the Poincare Hopf Index Theorem as well as the proofs of the original formulations by Cauchy Poincare and others Although the mapping degree theory you will discover in this book is a classical subject the treatment is refreshing for its simple and direct style The straightforward exposition is accented by the appearance of several uncommon topics tubular neighborhoods without metrics differences between class 1 and class 2 mappings Jordan Separation with neither compactness nor cohomology explicit constructions of homotopy classes of spheres and the direct computation of the Hopf invariant of the first Hopf fibration The book is suitable for a one semester graduate course There are 180 exercises and problems of different scope and difficulty *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 *Geometric Methods in Degree Theory for Equivariant Maps* Alexander M. Kushkuley,Zalman I. Balanov,2014-01-15 *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 cen ters around formulating those general principles of the theory that provide the foundation for many of the modern results in diverse areas of mathe matics 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 pre supposes some familiarity with more advanced parts of algebraic topology The Miscellaneous Results and Examples given in the form of exer cises 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 developedin 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 From Representation Theory to Mathematical Physics and Back Mikhail Khovanov,Joshua Sussan,Anton Zeitlin,2025-05-14 This volume is a proceedings of a workshop at the Simons Center for Geometry and Physics from May 31 June 4 2022 The workshop highlighted progress in the areas of vertex operator algebras conformal field theory categorification low dimensional topology and representation theory of affine Lie algebras loop groups and quantum groups In the past 40 years string theory gave rise to the mathematical theory of vertex operator algebras which led to the construction of representations of affine Lie algebras and the Moonshine module of the Monster group These mathematical constructions have in turn led to ideas about 3 dimensional quantum gravity In another direction the discovery of the Jones polynomial led to a physical construction of 3 dimensional topological quantum field theories TQFTs which in turn advanced many mathematical developments in quantum groups and low dimensional topology Louis Crane and Igor Frenkel introduced the categorification program with the goal of upgrading 3 dimensional TQFTs coming from representation theory of quantum groups to 4 dimensional TQFTs This idea gave rise to the development of link homologies constructed from representation theoretic algebraic geometric combinatorial and physical structures Articles in this volume present both classical and new results related to these topics They will be interesting to researchers and graduate students working in mathematical aspects of modern quantum field theory *An Equivariant Degree Theory for Networked Dynamical Systems* Haibo Ruan,2016

Bifurcation Theory of Functional Differential Equations Shangjiang Guo,Jianhong Wu,2013-07-30 This book provides a crash course on various methods from the bifurcation theory of Functional Differential Equations FDEs FDEs arise very naturally in economics life sciences and engineering and the study of FDEs has been a major source of inspiration for

advancement in nonlinear analysis and infinite dimensional dynamical systems The book summarizes some practical and general approaches and frameworks for the investigation of bifurcation phenomena of FDEs depending on parameters with chap This well illustrated book aims to be self contained so the readers will find in this book all relevant materials in bifurcation dynamical systems with symmetry functional differential equations normal forms and center manifold reduction This material was used in graduate courses on functional differential equations at Hunan University China and York University Canada **Symmetry Breaking for Compact Lie Groups** Mike Field,1996 This work comprises a general study of symmetry breaking for compact Lie groups in the context of equivariant bifurcation theory We begin by extending the theory developed by Field and Richardson for absolutely irreducible representations of finite groups to general irreducible representations of compact Lie groups while allowing for branches of relative equilibria and phenomena such as the Hopf bifurcation We also present a general theory of determinacy for irreducible Lie group actions We show that branching patterns for generic equivariant bifurcation problems defined on irreducible representations persist under perturbations by sufficiently high order non equivariant terms Handbook of Differential Equations: Ordinary Differential Equations Flaviano Battelli,Michal Feckan,2008-08-19 This handbook is the fourth volume in a series of volumes devoted to self contained and up to date surveys in the theory of ordinary differential equations with an additional effort to achieve readability for mathematicians and scientists from other related fields so that the chapters have been made accessible to a wider audience Covers a variety of problems in ordinary differential equations Pure mathematical and real world applications Written for mathematicians and scientists of many related fields A Course in Simple-Homotopy Theory M.M. Cohen,2012-12-06 This book grew out of courses which I taught at Cornell University and the University of Warwick during 1969 and 1970 I wrote it because of a strong belief that there should be readily available a semi historical and geo metrically motivated exposition of J H C Whitehead s beautiful theory of simple homotopy types that the best way to understand this theory is to know how and why it was built This belief is buttressed by the fact that the major uses of and advances in the theory in recent times for example the s cobordism theorem discussed in 25 the use of the theory in surgery its extension to non compact complexes discussed at the end of 6 and the proof of topological invariance given in the Appendix have come from just such an understanding A second reason for writing the book is pedagogical This is an excellent subject for a topology student to grow up on The interplay between geometry and algebra in topology each enriching the other is beautifully illustrated in simple homotopy theory The subject is accessible as in the courses mentioned at the outset to students who have had a good one semester course in algebraic topology I have tried to write proofs which meet the needs of such students When a proof was omitted and left as an exercise it was done with the welfare of the student in mind He should do such exercises zealously Group Actions and Equivariant Cohomology Loring W. Tu,2024-11-26 This volume contains the proceedings of the virtual AMS Special Session on Equivariant Cohomology held March 19 20 2022 Equivariant topology

is the algebraic topology of spaces with symmetries At the meeting equivariant cohomology was broadly interpreted to include related topics in equivariant topology and geometry such as Bredon cohomology equivariant cobordism GKM Goresky Kottwitz and MacPherson theory equivariant K theory symplectic geometry and equivariant Schubert calculus This volume offers a view of the exciting progress made in these fields in the last twenty years Several of the articles are surveys suitable for a general audience of topologists and geometers To be broadly accessible all the authors were instructed to make their presentations somewhat expository This collection should be of interest and useful to graduate students and researchers alike   Global Homotopy Theory Stefan Schwede,2018-09-06 A comprehensive self contained approach to global equivariant homotopy theory with many detailed examples and sample calculations   Discrete and Continuous Dynamical Systems ,2006   Singularity Theory and its Applications David Mond,James Montaldi,2006-11-14 A workshop on Singularities Bifurcation and Dynamics was held at Warwick in July 1989 as part of a year long symposium on Singularity Theory and its applications The proceedings fall into two halves Volume I mainly on connections with algebraic geometry and volume II on connections with dynamical systems theory bifurcation theory and applications in the sciences The papers are orginal research stimulated by the symposium and workshops All have been refereed and none will appear elsewhere The main topic deformation theory is represented by several papers on descriptions of the bases of versal deformations and several more on descriptions of the generic fibres Other topics include stratifications and applications to differential geometry   **Progress in String, Field and Particle Theory** L. Baulieu,Eliezer Rabinovici,Jeff Harvey,Boris Pioline,Paul Windey,2012-12-06 The NATO Advanced Study Institute and EC Summer School Progress in String Field and Particle Theory was held in Cargse from June 25th till July 11th 2002 The main focus of the school was the recent progress in the very ac tive areas of superstring theory quantum gravity and the theory of elementary particles It covered topical problems in domains such as duality between gravity and gaugeinteractions string field theory tachyon condensation non commutative field theory string cosmology and string phenomenology The School featured daily introductory lectures and topical seminars An informal Gong Show session allowed young post doctoral researchers and senior graduate students to make a concise presentation oftheir current work The School gave an excellent opportunity to the youngest researchers to establish a close relationship with their seniors and with the lecturers These proceedings will further serve in fixing the acquired knowledge and hopefully become a useful reference for anyone working in this fascinating do main of physics Some of the contributions provide an elementary introduction to their subject while other ones are more geared to the specialist We are deeply indebted to the NATO Division for Scientific Affairs for funding and for their constant attention for our meetings and to the European Commission for a High Level Scientific Conference grant HPCFCT 2001 00298

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