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E G × G X ? X / G. {\displaystyle EG\times _{G}X\to X/G} is a homotopy equivalence and so one gets: H G ? (X ; ?) = H ? (X / G ; ?) . {\displaystyle H_{G}^{*}(X;\Lambda)=H^{*}(X/G;\Lambda).} It is also possible to define the equivariant cohomology. H G ? (X ; A) {\displaystyle H_{G}^{*}(X;A)} of. X.

~~Equivariant cohomology - Wikipedia~~

ot ltration in equivariant cohomology and applications to the local cohomology modules of group cohomology rings, AMS Fall Sectional Meeting Special Session in Homotopy Theory, University of California at Riverside, November 2017 Structural aspects of group cohomology rings via equivariant cohomology, University of

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University of California, Berkeley Singularities of mappings, equivariant cohomology, and pipe dreams Given a generic smooth map f:X? Y, one can describe the locus where the differential of f drops rank in terms of the homotopy class of f: there is a universal formula for the homology class of the locus in terms of characteristic classes of the vector bundles TX and f^{*}(TY).

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University of California, Berkeley Professor Katrin Wehrheim, Chair In this paper, we propose a general method of de ning equivariant theories in symplectic geometry using polyfolds. The construction is twofold, one is for closed theories like equivari-ant Gromov-Witten theory, the other is for open theories like equivariant Floer cohomology.

~~Morse-Bott and Equivariant Theories Using Polyfolds~~
Equivariant cohomology is one such functor. The origin of equivariant cohomology is some- whatconvoluted.In1959Borelde?nedequivariant singular cohomology in the topological category usingaconstructionnowcalledtheBorelconstruc- tion.

~~W H A T I S . . . Equivariant Cohomology?~~
Erik Carlsson's research while affiliated with University of California, Davis and other ... as a limit of geometric correspondences on the equivariant cohomology groups of a finite-dimensional ...

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You can find most of the lectures by searching for "An Introduction to Equivariant Cohomology". Everything in the lectures is in my new book Introductory Lectures on Equivariant Cohomology , Annals of Mathematics Studies 204, Princeton University Press, Princeton, NJ, 2020. The chapters of the book correlate fairly closely with the lectures.

~~Loring W. Tu~~
Michael Viscardi, University of California, Berkeley Recent work on equivariant aspects of mirror symmetry has discovered relations between the equivariant quantum cohomology of symplectic resolutions and Casimir-type connections (among many other objects). We provide a new example of this theory in the setting of the affine Grassmannian, a fundamental space in the geometric

~~Quantum cohomology and 3D mirror symmetry | Algebra Pure ...~~
The convexity theorem and toric manifolds come next and we give a comprehensive treatment of Equivariant cohomology. The monograph also contains detailed treatment of the Duistermaat-Heckman Theorem, geometric quantization, and flat connections on 2-manifolds.

~~Hamiltonian Group Actions and Equivariant Cohomology ...~~
In mathematics, equivariant topology is the study of topological spaces that possess certain symmetries. In studying topological spaces, one often considers continuous maps f : X ? Y {\displaystyle f:X\to Y} , and while equivariant topology also considers such maps, there is the additional constraint that each map "respects symmetry" in both its domain and target space.

~~Equivariant topology - Wikipedia~~
University of Southern California | USC ... using the algebras defined in arXiv:0905.1335 from the equivariant cohomology of toric varieties. We prove this conjecture for cyclic arrangements by ...

~~Aaron LAUDA | Professor (Full) | Ph.D, M.S | University of ...~~
In this paper, we give another construction of equivariant Floer cohomology with respect to a finite group action and use it to prove some invariance properties of these spectral sequences; prove that some of these spectral sequences agree; improve Hendricks's Smith?type inequalities; give some theoretical and practical computability results for these spectral sequences; define some new ...

~~A flexible construction of equivariant Floer homology and ...~~
For G a Lie group acting on a symplectic manifold (M,?) preserving a pair of Lagrangians L0, L1, under certain hypotheses not including equivariant transversality we construct a G?equivariant Floer c...

~~A simplicial construction of G?equivariant Floer homology ...~~
Author (s) This book gives a clear introductory account of equivariant cohomology, a central topic in algebraic topology. Equivariant cohomology is concerned with the algebraic topology of spaces with a group action, or in other words, with symmetries of spaces. First defined in the 1950s, it has been introduced into K-theory and algebraic geometry, but it is in algebraic topology that the concepts are the most transparent and the proofs are the simplest.

This book gives a clear introductory account of equivariant cohomology, a central topic in algebraic topology. Equivariant cohomology is concerned with the algebraic topology of spaces with a group action, or in other words, with symmetries of spaces. First defined in the 1950s, it has been introduced into K-theory and algebraic geometry, but it is in algebraic topology that the concepts are the most transparent and the proofs are the simplest. One of the most useful applications of equivariant cohomology is the equivariant localization theorem of Atiyah-Bott and Berline-Vergne, which converts the integral of an equivariant differential form into a finite sum over the fixed point set of the group action, providing a powerful tool for computing integrals over a manifold. Because integrals and symmetries are ubiquitous, equivariant cohomology has found applications in diverse areas of mathematics and physics. Assuming readers have taken one semester of manifold theory and a year of algebraic topology, Loring Tu begins with the topological construction of equivariant cohomology, then develops the theory for smooth manifolds with the aid of differential forms. To keep the exposition simple, the equivariant localization theorem is proven only for a circle action. An appendix gives a proof of the equivariant de Rham theorem, demonstrating that equivariant cohomology can be computed using equivariant differential forms. Examples and calculations illustrate new concepts. Exercises include hints or solutions, making this book suitable for self-study.

This monograph could be used for a graduate course on symplectic geometry as well as for independent study. The monograph starts with an introduction of symplectic vector spaces, followed by symplectic manifolds and then Hamiltonian group actions and the Darboux theorem. After discussing moment maps and orbits of the coadjoint action, symplectic quotients are studied. The convexity theorem and toric manifolds come next and we give a comprehensive treatment of Equivariant cohomology. The monograph also contains detailed treatment of the Duistermaat-Heckman Theorem, geometric quantization, and flat connections on 2-manifolds. Finally, there is an appendix which provides background material on Lie groups. A course on differential topology is an essential prerequisite for this course. Some of the later material will be more accessible to readers who have had a basic course on algebraic topology. For some of the later chapters, it would be helpful to have some background on representation theory and complex geometry.

This book presents a coherent suite of computational tools for the study of group cohomology algebraic cycles.

In algebraic topology, obstruction theory provides a way to study homotopy classes of continuous maps in terms of cohomology groups; a similar theory exists for certain spaces with group actions and maps that are compatible (that is, equivariant) with respect to the group actions. This work provides a corresponding setting for certain spaces with group actions and maps that are compatible in a stronger sense, called isovariant. The basic idea is to establish an equivalence between isovariant homotopy and equivariant homotopy for certain categories of diagrams. Consequences include isovariant versions of the usual Whitehead theorems for recognizing homotopy equivalences, an obstruction theory for deforming equivariant maps to isovariant maps, rational computations for the homotopy groups of certain spaces of isovariant functions, and applications to constructions and classification problems for differentiable group actions.

The memoir presents a systematic study of rational S^1-equivariant cohomology theories, and a complete algebraic model for them. It provides a classification of such cohomology theories in simple algebraic terms and a practical means of calculation. The power of the model is illustrated by analysis of the Segal conjecture, the behaviour of the Atiyah-Hirzebruch spectral sequence, the structure of S^1-equivariant K-theory, and the rational behaviour of cyclotomic spectra and the topological cyclic homology construction.

Filling a gap in the literature, this book takes the reader to the frontiers of equivariant topology, the study of objects with specified symmetries. The discussion is motivated by reference to a list of instructive “toy” examples and calculations in what is a relatively unexplored field. The authors also provide a reading path for the first-time reader less interested in working through sophisticated machinery but still desiring a rigorous understanding of the main concepts. The subject’s classical counterparts, ordinary homology and cohomology, dating back to the work of Henri Poincaré in topology, are calculational and theoretical tools which are important in many parts of mathematics and theoretical physics, particularly in the study of manifolds. Similarly powerful tools have been lacking, however, in the context of equivariant topology. Aimed at advanced graduate students and researchers in algebraic topology and related fields, the book assumes knowledge of basic algebraic topology and group actions.

A new combinatorial foundation of the two concepts, based on a consideration of deep and classical results of homotopy theory, and an axiomatic characterization of the assumptions under which results in this field hold. Includes numerous explicit examples and applications in various fields of topology and algebra.

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