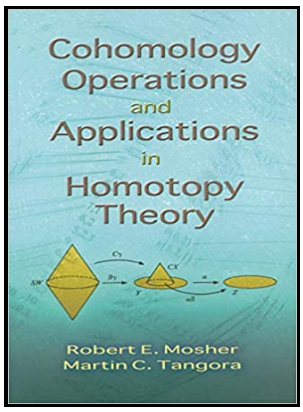
Cohomology operations and applications in homotopy theory

Harper & Row - Cohomology Operations and Applications in Homotopy Theory



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-
Harpers series in modern mathematicsCohomology operations and applications in homotopy theory
Notes: Bibliography: p. 207-211.
This edition was published in 1968

Tags: #Cohomology #operation

A cohomology theory for A(m)

In its most general form, for any types X and Y, we define the nonabelian cohomology of X with coefficients in Y to be the 0-truncation of the mapping space from X to Y: It is, of course a set. A closed manifold means a compact manifold without boundary , whereas a closed submanifold N of a manifold M means a submanifold that is a of M, not necessarily compact although N is automatically compact if M is. No assumption is needed on Y.

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The groups C i are zero for i negative. For instance, the higher inductive circle is an Eilenberg-Mac Lane space of type. And is it possible to translate this argument into the hott framework? A subtle point is that the functor from the stable homotopy category the homotopy category of spectra to generalized homology theories on CW-pairs is not an equivalence, although it gives a bijection on isomorphism classes; there are nonzero maps in the stable homotopy category called that induce the zero map between homology theories on CW-pairs.

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Secondary Cohomology Operations

Chapter 8 of the book focuses mostly on calculating homotopy groups, which are an important aspect of homotopy theory, but most working algebraic topologists spend more time on homology and cohomology, which classically are more easily computable.

homotopy theory

Unlike more subtle invariants such as , the cohomology ring tends to be computable in practice for spaces of interest.

homotopy theory

It is the stable homotopy category, not these other categories, that has good properties such as being.

Mahowald : Review: Robert E. Mosher and Martin C. Tangora, Cohomology operations and applications in homotopy theory

For people interested in doing homotopy theory in homotopy type theory, Chapter 8 of the HoTT Book is a pretty good record of a lot of what was accomplished during the IAS year. The nth cohomology for is defined by adding loop spaces: Note that if , then is always a group it inherits the loop composition operation from , while if then it is an abelian group by the Eckmann-Hilton argument. Readership Graduate students and research mathematicians interested in algebraic topology.

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For example, let X be an oriented manifold, not necessarily compact.

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