Cohomology Operations and Applications in Homotopy Theory



Robert E. Mosher Martin C. Tangora

# **Cohomology Operations And Applications In Homotopy Theory Dover Books On Mathematics**

**Anant R. Shastri** 

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Cohomology Operations and Applications in Homotopy Theory Robert E. Mosher, Martin C. Tangora, 2008-01-01 Cohomology operations are at the center of a major area of activity in algebraic topology This treatment explores the single most important variety of operations the Steenrod squares It constructs these operations proves their major properties and provides numerous applications including several different techniques of homotopy theory useful for computation 1968 An Invitation to Computational Homotopy Graham Ellis, 2019 An Invitation to Computational Homotopy is an introduction to elementary algebraic topology for those with an interest in computers and computer programming It expertly illustrates how the basics of the subject can be implemented on a computer through its focus on fully worked examples designed to develop problem solving techniques The transition from basic theory to practical computation raises a range of non trivial algorithmic issues which will appeal to readers already familiar with basic theory and who are interested in developing computational aspects The book covers a subset of standard introductory material on fundamental groups covering spaces homology cohomology and classifying spaces as well as some less standard material on crossed modules These topics are covered in a way that hints at potential applications of topology in areas of computer science and engineering outside the usual territory of pure mathematics and also in a way that demonstrates how computers can be used to perform explicit calculations within the domain of pure algebraic topology itself. The initial chapters include in depth examples from data mining biology and digital image analysis while the later chapters cover a range of computational examples on the cohomology of classifying spaces that are likely beyond the reach of a purely paper and pen approach to the subject An Invitation to Computational Homotopy serves as a self contained and informal introduction to these topics and their implementation in the sphere of computer science Written in a dynamic and engaging style it skilfully showcases a range of useful machine computations and will serve as an invaluable aid to graduate students working with algebraic topology Basic Algebraic Topology Anant R. Shastri, 2016-02-03 Building on rudimentary knowledge of real analysis point set topology and basic algebra Basic Algebraic Topology provides plenty of material for a two semester course in algebraic topology The book first introduces the necessary fundamental concepts such as relative homotopy fibrations and cofibrations category theory cell complexes and si Cohomology Operations and Applications in Homotopy Theory [by] Robert E. Mosher [and] Martin C. Tangora Robert E. Mosher, 1968 **Secondary Cohomology Operations** John R. Harper, 1900 The book develops the theory of secondary cohomology operations for singular cohomology theory. The author develops the subject in terms of elementary constructions from general homotopy theory Among many applications considered are the Hopf invariant one theorem for all primes p including p 2 Browder's theorem on higher Bockstein operations and cohomology theory of Massey Peterson fibrations Numerous examples and exercises help readers to gain a working knowledge of the theory A summary of more advanced parts of the core material is included in the first chapter Prerequisite is basic algebraic

topology including the Steenrod operations The book is written for graduate students and research mathematicians interested in algebraic topology and can be used for self study or as a textbook for an advanced course on the topic Catalogue, Books and Journals in Advanced Mathematics American Mathematical Society, 1985 Scientific and Technical Books in Print , 1972 Books in Print , 1977 Books in Series , 1980 Whitaker's Cumulative Book List

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