

ALGEBRAS AND APPLICATIONS

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# Cohomology Rings of Finite Groups

with an Appendix: Calculations  
of Cohomology Rings of Groups  
of Order Dividing 64

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# Cohomology Of Finite Groups

**Jon Carlson**



## **Cohomology Of Finite Groups:**

**Cohomology of Finite Groups** Alejandro Adem,R.James Milgram,2013-06-29 The cohomology of groups has since its beginnings in the 1920s and 1930s been the stage for significant interaction between algebra and topology and has led to the creation of important new fields in mathematics like homological algebra and algebraic K theory This is the first book to deal comprehensively with the cohomology of finite groups it introduces the most important and useful algebraic and topological techniques and describes the interplay of the subject with those of homotopy theory representation theory and group actions The combination of theory and examples together with the techniques for computing the cohomology of important classes of groups including symmetric groups alternating groups finite groups of Lie type and some of the sporadic simple groups enable readers to acquire an in depth understanding of group cohomology and its extensive applications *Cohomology*

*Rings of Finite Groups* Jon Carlson,2003-10-31 This text offers comprehensive coverage of group cohomology from introductory material through the most recent developments in the field The primary motivation for this book is the interaction of group cohomology with representation theory especially the geometry of support varieties over cohomology rings The appendices comprising computer calculations of the mod 2 cohomology rings of the groups whose orders divide 64 provide information useful for further developments in the field A unique feature of this text is that it includes the concepts that are the subject of the calculations and are the source of some of the motivating conjectures for the computations The programs for computing the cohomology rings were executed in the MAGMA computer algebra language The text is a valuable resource for researchers in group cohomology and related disciplines In addition the book could be used as the text for an advanced graduate class or a graduate seminar **Cohomology of Finite Groups** Ari Babakhanian,A.

Babakhanian,1969 **Cohomology of Finite Groups** Ari Babakhanian,Queen's University (Kingston, Ont.),1999

**Representations of Finite Groups: Local Cohomology and Support** David J. Benson,Srikanth Iyengar,Henning Krause,2011-11-15 The seminar focuses on a recent solution by the authors of a long standing problem concerning the stable module category of not necessarily finite dimensional representations of a finite group The proof draws on ideas from commutative algebra cohomology of groups and stable homotopy theory The unifying theme is a notion of support which provides a geometric approach for studying various algebraic structures The prototype for this has been Daniel Quillen s description of the algebraic variety corresponding to the cohomology ring of a finite group based on which Jon Carlson introduced support varieties for modular representations This has made it possible to apply methods of algebraic geometry to obtain representation theoretic information Their work has inspired the development of analogous theories in various contexts notably modules over commutative complete intersection rings and over cocommutative Hopf algebras One of the threads in this development has been the classification of thick or localizing subcategories of various triangulated categories of representations This story started with Mike Hopkins classification of thick subcategories of the perfect complexes over a

commutative Noetherian ring followed by a classification of localizing subcategories of its full derived category due to Amnon Neeman The authors have been developing an approach to address such classification problems based on a construction of local cohomology functors and support for triangulated categories with ring of operators The book serves as an introduction to this circle of ideas *Computations in Group Cohomology for Finite Groups* Isabel Marie Beichl,1981 Characteristic Classes and the Cohomology of Finite Groups C. B. Thomas,2008-11-27 The purpose of this book is to study the relation between the representation ring of a finite group and its integral cohomology by means of characteristic classes In this way it is possible to extend the known calculations and prove some general results for the integral cohomology ring of a group  $G$  of prime power order Among the groups considered are those of  $p$  rank less than 3 extra special  $p$  groups symmetric groups and linear groups over finite fields An important tool is the Riemann Roch formula which provides a relation between the characteristic classes of an induced representation the classes of the underlying representation and those of the permutation representation of the infinite symmetric group Dr Thomas also discusses the implications of his work for some arithmetic groups which will interest algebraic number theorists Dr Thomas assumes the reader has taken basic courses in algebraic topology group theory and homological algebra but has included an appendix in which he gives a purely topological proof of the Riemann Roch formula Cohomology of Finite Groups and Related Topics Hiroki Sasaki,1998 **On the Cohomology of Finite Groups with Simple Coefficients** Markus Andreas Stricker,1989 Cohomology of Finite Groups Ararat Babakhanian,1969 **Cohomology of Some Finite Groups** Jonathan Owen Clark,1993 **Cohomology of Finite Groups** Peter A. Linnell,1992 An Introduction to Homological Algebra Joseph J. Rotman,2008-12-10 Homological Algebra has grown in the nearly three decades since the first edition of this book appeared in 1979 Two books discussing more recent results are Weibel *An Introduction to Homological Algebra* 1994 and Gelfand Manin *Methods of Homological Algebra* 2003 In their Foreword Gelfand and Manin divide the history of Homological Algebra into three periods the first period ended in the early 1960s culminating in applications of Homological Algebra to regular local rings The second period greatly influenced by the work of A Grothendieck and J P Serre continued through the 1980s it involves abelian categories and sheaf cohomology The third period involving derived categories and triangulated categories is still ongoing Both of these newer books discuss all three periods see also Kashiwara Schapira *Categories and Sheaves* The original version of this book discussed the first period only this new edition remains at the same introductory level but it now introduces the second period as well This change makes sense pedagogically for there has been a change in the mathematics population since 1979 today virtually all mathematics graduate students have learned something about functors and categories and so I can now take the categorical viewpoint more seriously When I was a graduate student Homological Algebra was an unpopular subject The general attitude was that it was a grotesque formalism boring to learn and not very useful once one had learned it **Modular Characters and Cohomology of Finite Groups (part 1); Non Classical Algebraic Topology** B. E. Philipsz,Mathematics,1973

*Cohomology of Finite Groups*, by A. Babakhanian A. Babakhanian, On the Cohomology of Finite Groups Over Modular Fields D.L Johnson,1968 *Cohomology theory of finite groups* ,2000 **Cohomology of Finite Groups** Mathematisches Forschungsinstitut Oberwolfach,2005 **The Connective K-Theory of Finite Groups** Robert Ray Bruner,John Patrick Campbell Greenlees,2003 Includes a paper that deals the connective K homology and cohomology of finite groups G This title uses the methods of algebraic geometry to study the ring  $ku$  DEGREES BG where  $ku$  denotes connective complex K theory It describes the variety in terms of the category of abelian  $p$  subgroups of G for primes  $p$  dividing the group **Groups St Andrews 1997 in Bath: Volume 2** C. M. Campbell,1999-02-18 This two volume book contains selected papers from the international conference Groups St Andrews 1997 in Bath The articles are arranged in roughly alphabetical order and cover a wide spectrum of modern group theory There are articles based on lecture courses given by five main speakers together with refereed survey and research articles contributed by other conference participants Proceedings of earlier Groups St Andrews conferences have had a major impact on the development of group theory and these volumes should be equally important

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