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# **Representations and cohomology**

**II: Cohomology of groups  
and modules**

**D. J. BENSON**



# Representations And Cohomology Vol 2 Cohomology Of Groups And Modules

**Frances Kirwan,Jonathan Woolf**



## **Representations And Cohomology Vol 2 Cohomology Of Groups And Modules:**

Representations and Cohomology: Volume 2, Cohomology of Groups and Modules D. J. Benson, 1991-08-22 This is the second of two volumes which will provide an introduction to modern developments in the representation theory of finite groups and associative algebras The subject is viewed from the perspective of homological algebra and the theory of representations of finite dimensional algebras the author emphasises modular representations and the homological algebra associated with their categories This volume concentrates on the cohomology of groups always with representations in view however It begins with a background reference chapter then proceeds to an overview of the algebraic topology and K theory associated with cohomology of groups especially the work of Quillen Later chapters look at algebraic and topological proofs of the finite generation of the cohomology ring of a finite group and an algebraic approach to the Steenrod operations in group cohomology The book cumulates in a chapter dealing with the theory of varieties for modules Much of the material presented here has never appeared before in book form Consequently students and research workers studying group theory and indeed algebra in general will be grateful to Dr Benson for supplying an exposition of a good deal of the essential results of modern representation theory

Representations and Cohomology ICM Edition: Volume 2, Cohomology of Groups and Modules D. J. Benson, 2010-07-23

Representations and Cohomology: Volume 1, Basic Representation Theory of Finite Groups and Associative Algebras D. J. Benson, 1998-06-18 An introduction to modern developments in the representation theory of finite groups and associative algebras

*The Block Theory of Finite Group Algebras: Volume 2* Markus Linckelmann, 2018-05-24 This is a comprehensive introduction to the modular representation theory of finite groups with an emphasis on block theory The two volumes take into account classical results and concepts as well as some of the modern developments in the area Volume 1 introduces the broader context starting with general properties of finite group algebras over commutative rings moving on to some basics in character theory and the structure theory of algebras over complete discrete valuation rings In Volume 2 blocks of finite group algebras over complete  $p$  local rings take centre stage and many key results which have not appeared in a book before are treated in detail In order to illustrate the wide range of techniques in block theory the book concludes with chapters classifying the source algebras of blocks with cyclic and Klein four defect groups and relating these classifications to the open conjectures that drive block theory

**Polynomials and the mod 2 Steenrod Algebra: Volume 2, Representations of  $GL(n, F_2)$**  Grant Walker, Reginald M. W. Wood, 2017-11-09 This is the first book to link the mod 2 Steenrod algebra a classical object of study in algebraic topology with modular representations of matrix groups over the field  $F$  of two elements The link is provided through a detailed study of Peterson's hit problem concerning the action of the Steenrod algebra on polynomials which remains unsolved except in special cases The topics range from decompositions of integers as sums of powers of 2 minus 1 to Hopf algebras and the Steinberg representation of  $GL(n, F)$  Volume 1 develops the structure of the Steenrod algebra from an algebraic viewpoint and can be used as a graduate

level textbook Volume 2 broadens the discussion to include modular representations of matrix groups      *Recent Developments in Lie Algebras, Groups and Representation Theory* Kailash C. Misra, Daniel Ken Nakano, Brian Parshall, 2012 This book contains the proceedings of the 2009 2011 Southeastern Lie Theory Workshop Series held October 9 11 2009 at North Carolina State University May 22 24 2010 at the University of Georgia and June 1 4 2011 at the University of Virginia Some of the articles written by experts in the field survey recent developments while others include new results in Lie algebras quantum groups finite groups and algebraic groups      Mathematics of Aperiodic Order Johannes Kellendonk, Daniel Lenz, Jean Savinien, 2015-06-05 What is order that is not based on simple repetition that is periodicity How must atoms be arranged in a material so that it diffracts like a quasicrystal How can we describe aperiodically ordered systems mathematically Originally triggered by the later Nobel prize winning discovery of quasicrystals the investigation of aperiodic order has since become a well established and rapidly evolving field of mathematical research with close ties to a surprising variety of branches of mathematics and physics This book offers an overview of the state of the art in the field of aperiodic order presented in carefully selected authoritative surveys It is intended for non experts with a general background in mathematics theoretical physics or computer science and offers a highly accessible source of first hand information for all those interested in this rich and exciting field Topics covered include the mathematical theory of diffraction the dynamical systems of tilings or Delone sets their cohomology and non commutative geometry the Pisot substitution conjecture aperiodic Schrödinger operators and connections to arithmetic number theory      *The Arcata Conference on Representations of Finite Groups, Part 1* Paul Fong, 1987 The papers in these proceedings of the 1986 Arcata Summer Institute bear witness to the extraordinarily vital and intense research in the representation theory of finite groups The confluence of diverse mathematical disciplines has brought forth work of great scope and depth Particularly striking is the influence of algebraic geometry and cohomology theory in the modular representation theory and the character theory of reductive groups over finite fields and in the general modular representation theory of finite groups The continuing developments in block theory and the general character theory of finite groups is noteworthy The expository and research aspects of the Summer Institute are well represented by these papers      **Infinite Length Modules** Henning Krause, Claus Michael Ringel, 2000 This book is concerned with the role played by modules of infinite length when dealing with problems in the representation theory of groups and algebras but also in topology and geometry it shows the intriguing interplay between finite and infinite length modules The volume presents the invited lectures of a conference devoted to Infinite Length Modules held at Bielefeld in September 1998 which brought together experts from quite different schools in order to survey surprising relations between algebra topology and geometry Some additional reports have been included in order to establish a unified picture The collection of articles written by well known experts from all parts of the world is conceived as a sort of handbook which provides an easy access to the present state of knowledge and its aim is to stimulate further development

**Representation Theory of Finite Groups: a Guidebook** David A. Craven, 2019-08-30 This book provides an accessible introduction to the state of the art of representation theory of finite groups Starting from a basic level that is summarized at the start the book proceeds to cover topics of current research interest including open problems and conjectures The central themes of the book are block theory and module theory of group representations which are comprehensively surveyed with a full bibliography The individual chapters cover a range of topics within the subject from blocks with cyclic defect groups to representations of symmetric groups Assuming only modest background knowledge at the level of a first graduate course in algebra this guidebook intended for students taking first steps in the field will also provide a reference for more experienced researchers Although no proofs are included end of chapter exercises make it suitable for student seminars

**The Block Theory of Finite Group Algebras: Volume 1** Markus Linckelmann, 2018-05-24 This is a comprehensive introduction to the modular representation theory of finite groups with an emphasis on block theory The two volumes take into account classical results and concepts as well as some of the modern developments in the area Volume 1 introduces the broader context starting with general properties of finite group algebras over commutative rings moving on to some basics in character theory and the structure theory of algebras over complete discrete valuation rings In Volume 2 blocks of finite group algebras over complete  $p$  local rings take centre stage and many key results which have not appeared in a book before are treated in detail In order to illustrate the wide range of techniques in block theory the book concludes with chapters classifying the source algebras of blocks with cyclic and Klein four defect groups and relating these classifications to the open conjectures that drive block theory

**The Block Theory of Finite Group Algebras** Markus Linckelmann, 2018  
*Groups '93 Galway/St Andrews: Volume 1* T. C. Hurley, E. F. Robertson, S. J. Tobin, J. Ward, 1995-03-16 Representing the wealth and diversity of group theory for experienced researchers as well as new postgraduates this two volume book contains selected papers from the international conference which was held at University College Galway in August 1993

**Classifying Spaces of Sporadic Groups** David J. Benson, Stephen D. Smith, 2008 For each of the 26 sporadic finite simple groups the authors construct a 2 completed classifying space using a homotopy decomposition in terms of classifying spaces of suitable 2 local subgroups This construction leads to an additive decomposition of the mod 2 group cohomology

**Modular Representation Theory and Commutative Banach Algebras** David J. Benson, 2024-07-25 View the abstract

*Dirac Operators in Representation Theory* Jing-Song Huang, Pavle Pandzic, 2007-05-27 This monograph presents a comprehensive treatment of important new ideas on Dirac operators and Dirac cohomology Dirac operators are widely used in physics differential geometry and group theoretic settings particularly the geometric construction of discrete series representations The related concept of Dirac cohomology which is defined using Dirac operators is a far reaching generalization that connects index theory in differential geometry to representation theory Using Dirac operators as a unifying theme the authors demonstrate how some of the most important results in representation theory fit together when

viewed from this perspective An excellent contribution to the mathematical literature of representation theory this self contained exposition offers a systematic examination and panoramic view of the subject The material will be of interest to researchers and graduate students in representation theory differential geometry and physics

**Lectures in Logic and Set Theory: Volume 2, Set Theory** George Tourlakis, 2003-02-13 This two volume work bridges the gap between introductory expositions of logic or set theory on one hand and the research literature on the other It can be used as a text in an advanced undergraduate or beginning graduate course in mathematics computer science or philosophy The volumes are written in a user friendly conversational lecture style that makes them equally effective for self study or class use Volume II on formal ZFC set theory incorporates a self contained chapter 0 on proof techniques so that it is based on formal logic in the style of Bourbaki The emphasis on basic techniques will provide the reader with a solid foundation in set theory and provides a context for the presentation of advanced topics such as absoluteness relative consistency results two expositions of Gödel's constructible universe numerous ways of viewing recursion and a chapter on Cohen forcing

**Representations of Elementary Abelian  $p$ -Groups and Vector Bundles** David J. Benson, 2017 An up to date study of recent progress in vector bundle methods in the representation theory of elementary abelian groups

*Representation Theory of Finite Groups and Associative Algebras* Charles W. Curtis, Irving Reiner, 2006 Provides an introduction to various aspects of the representation theory of finite groups This book covers such topics as general non commutative algebras Frobenius algebras representations over non algebraically closed fields and fields of non zero characteristic and integral representations

[An Introduction to Intersection Homology Theory, Second Edition](#) Frances Kirwan, Jonathan Woolf, 2006-06-07 Now more than a quarter of a century old intersection homology theory has proven to be a powerful tool in the study of the topology of singular spaces with deep links to many other areas of mathematics including combinatorics differential equations group representations and number theory Like its predecessor *An Introduction to Intersection Homology Theory Second Edition* introduces the power and beauty of intersection homology explaining the main ideas and omitting or merely sketching the difficult proofs It treats both the basics of the subject and a wide range of applications providing lucid overviews of highly technical areas that make the subject accessible and prepare readers for more advanced work in the area This second edition contains entirely new chapters introducing the theory of Witt spaces perverse sheaves and the combinatorial intersection cohomology of fans Intersection homology is a large and growing subject that touches on many aspects of topology geometry and algebra With its clear explanations of the main ideas this book builds the confidence needed to tackle more specialist technical texts and provides a framework within which to place them

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