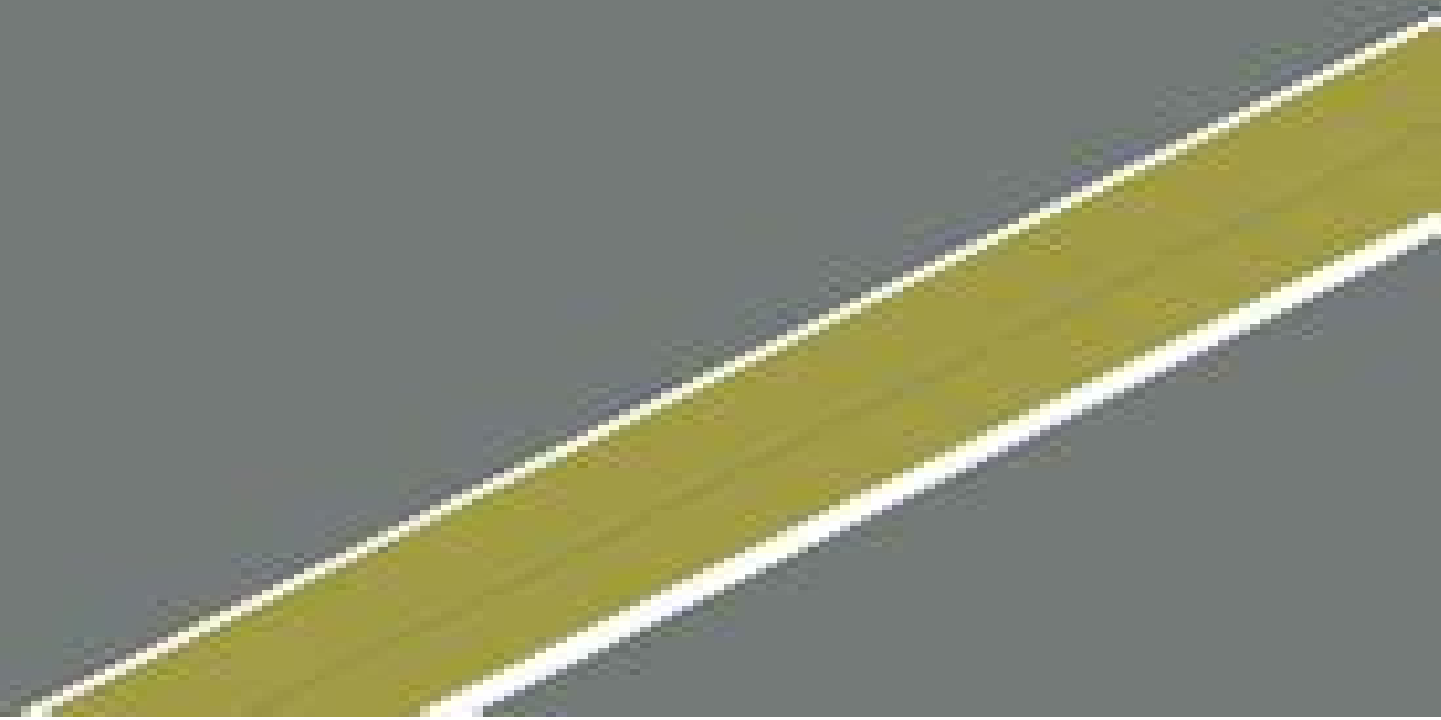# Representations and characters of finite groups

M.J. COLLINS

Representations And Characters Of Finite Groups

Benjamin Steinberg

Representations And Characters Of Finite Groups:

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The Theory of Group Characters and Matrix Representations of Groups Dudley Ernest Littlewood,2005 Originally written in 1940 this book remains a classical source on representations and characters of finite and compact groups The book starts with necessary information about matrices algebras and groups Then the author proceeds to representations of finite groups Of particular interest in this part of the book are several chapters devoted to representations and characters of symmetric groups and the closely related theory of symmetric polynomials The concluding chapters present the representation theory of

classical compact Lie groups including a detailed description of representations of the unitary and orthogonal groups The book which can be read with minimal prerequisites an undergraduate algebra course allows the reader to get a good understanding of beautiful classical results about group representations   Representations and Characters of Groups Gordon James,Martin Liebeck,2001-10-18 This is the second edition of the popular textbook on representation theory of finite groups The authors have revised the text greatly and included new chapters on Characters of GL 2 q and Permutations and Characters The theory is developed in terms of modules since this is appropriate for more advanced work but considerable emphasis is placed upon constructing characters The character tables of many groups are given including all groups of order less than 32 and all but one of the simple groups of order less than 1000 Each chapter is accompanied by a variety of exercises and full solutions to all the exercises are provided at the end of the book   Characters of Finite Groups Walter Feit,1965   Character Theory of Finite Groups Mark L. Lewis,2010-09-17 This volume contains a collection of papers from the Conference on Character Theory of Finite Groups held at the Universitat de Valencia Spain on June 3 5 2009 in honor of I Martin Isaacs The topics include permutation groups character theory p groups and group rings The research articles feature new results on large normal abelian subgroups of p groups construction of certain wreath products computing idempotents in group algebras of finite groups and using dual pairs to study representations of cross characteristic in classical groups The expository articles present results on vertex subgroups measuring theorems in permutation groups the development of super character theory and open problems in character theory   **Representations and Characters of Finite Groups** Edward Eaton Wendell,1966   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   **Representations of Finite and Compact Groups** Barry Simon, This book is a comprehensive pedagogical presentation of the theory of representation of finite and compact Lie groups that would be of interest to research mathematicians and graduate students interested in group theory and generalizations topological groups and Lie groups Representation theory is discussed on finite groups of rotations permutation groups and classical compact Lie groups The Weyl character formula is proved   **Characters and Blocks of Finite Groups** Gabriel Navarro,1998-05-07 This is a clear accessible and up to date exposition of modular representation theory of finite groups from a character theoretic

viewpoint After a short review of the necessary background material the early chapters introduce Brauer characters and blocks and develop their basic properties The next three chapters study and prove Brauer s first second and third main theorems in turn These results are then applied to prove a major application of finite groups the Glauberman Z theorem Later chapters examine Brauer characters in more detail The relationship between blocks and normal subgroups is also explored and the modular characters and blocks in p solvable groups are discussed Finally the character theory of groups with a Sylow p subgroup of order p is studied Each chapter concludes with a set of problems The book is aimed at graduate students with some previous knowledge of ordinary character theory and researchers studying the representation theory of finite groups   The Representations and Characters of Certain Finite Groups S. J. Ford,1961   **Characters of Finite Groups. Part 1** IA. G. Berkovich E. M. Zhmud',1997-12-02 This book discusses character theory and its applications to finite groups The work places the subject within the reach of people with a relatively modest mathematical background The necessary background exceeds the standard algebra course with respect only to finite groups Starting with basic notions and theorems in character theory the authors present a variety of results on the properties of complex valued characters and applications to finite groups The main themes are degrees and kernels of irreducible characters the class number and the number of nonlinear irreducible characters values of irreducible characters characterizations and generalizations of Frobenius groups and generalizations and applications of monomial groups The presentation is detailed and many proofs of known results are new Most of the results in the book are presented in monograph form for the first time Numerous exercises offer additional information on the topics and help readers to understand the main concepts and results

Characters of Finite Groups I_A. G. Berkovich,E. M. Zhmud_,1998-09-29 This book places character theory and its applications to finite groups within the reach of people with a comparatively modest mathematical background The work concentrates mostly on applications of character theory to finite groups The main themes are degrees and kernels of irreducible characters the class number and the number of nonlinear irreducible characters values of irreducible characters characterizations and generalizations of Frobenius groups and generalizations of monomial groups The presentation is detailed and many proofs of known results are new   **Representation Theory of Finite Groups** Martin Burrow,2014-05-10 Representation Theory of Finite Groups is a five chapter text that covers the standard material of representation theory This book starts with an overview of the basic concepts of the subject including group characters representation modules and the rectangular representation The succeeding chapters describe the features of representation theory of rings with identity and finite groups These topics are followed by a discussion of some of the application of the theory of characters along with some classical theorems The last chapter deals with the construction of irreducible representations of groups This book will be of great value to graduate students who wish to acquire some knowledge of representation theory   Representation Theory of Finite Groups Benjamin Steinberg,2011-10-23 This book is intended to

present group representation theory at a level accessible to mature undergraduate students and beginning graduate students This is achieved by mainly keeping the required background to the level of undergraduate linear algebra group theory and very basic ring theory Module theory and Wedderburn theory as well as tensor products are deliberately avoided Instead we take an approach based on discrete Fourier Analysis Applications to the spectral theory of graphs are given to help the student appreciate the usefulness of the subject A number of exercises are included This book is intended for a 3rd 4th undergraduate course or an introductory graduate course on group representation theory However it can also be used as a reference for workers in all areas of mathematics and statistics **Groups and Characters** Larry C. Grove,2011-09-26 An authoritative full year course on both group theory and ordinary character theory essential tools for mathematics and the physical sciences One of the few treatments available combining both group theory and character theory Groups and Characters is an effective general textbook on these two fundamentally connected subjects Presuming only a basic knowledge of abstract algebra as in a first year graduate course the text opens with a review of background material and then guides readers carefully through several of the most important aspects of groups and characters concentrating mainly on finite groups Challenging yet accessible Groups and Characters features An extensive collection of examples surveying many different types of groups including Sylow subgroups of symmetric groups affine groups of fields the Mathieu groups and symplectic groups A thorough easy to follow discussion of Polya Redfield enumeration with applications to combinatorics Inclusive explorations of the transfer function and normal complements induction and restriction of characters Clifford theory characters of symmetric and alternating groups Frobenius groups and the Schur index Illuminating accounts of several computational aspects of group theory such as the Schreier Sims algorithm Todd Coxeter coset enumeration and algorithms for generating character tables As valuable as Groups and Characters will prove as a textbook for mathematicians it has broader applications With chapters suitable for use as independent review units along with a full bibliography and index it will be a dependable general reference for chemists physicists and crystallographers **Representations of Finite Groups** Richard Brauer,1963 **Linear Representations of Finite Groups** Jean-Pierre Serre,2012-12-06 This book consists of three parts rather different in level and purpose The first part was originally written for quantum chemists It describes the correspondence due to Frobenius between linear representations and charac ters This is a fundamental result of constant use in mathematics as well as in quantum chemistry or physics I have tried to give proofs as elementary as possible using only the definition of a group and the rudiments of linear algebra The examples Chapter 5 have been chosen from those useful to chemists The second part is a course given in 1966 to second year students of I Ecoie Normale It completes the first on the following points a degrees of representations and integrality properties of characters Chapter 6 b induced representations theorems of Artin and Brauer and applications Chapters 7 11 c rationality questions Chapters 12 and 13 The methods used are those of linear algebra in a wider sense than in the first part group algebras modules

noncommutative tensor products semisimple algebras The third part is an introduction to Brauer theory passage from characteristic 0 to characteristic p and conversely I have freely used the language of abelian categories projective modules Grothendieck groups which is well suited to this sort of question The principal results are a The fact that the decomposition homomorphism is surjective all irreducible representations in characteristic p can be lifted virtually i e in a suitable Grothendieck group to characteristic O

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