Topics In Finite Groups Gagen Terence M

Finite GroupsCharacter Theory of Finite GroupsA Course on Finite GroupsApplications of Finite GroupsFinite GroupsCharacter Theory of Finite GroupsTopics in Finite GroupsCharacters of Finite GroupsProducts of Finite GroupsRepresentations and Characters of Finite GroupsRepresentation Theory of Finite GroupsTheory of Finite GroupsApplying the Classification of Finite Simple GroupsFinite Groups IIThe Santa Cruz Conference on Finite GroupsTopics in Finite GroupsA Course in Finite Group Representation TheoryTopics in Finite GroupsProceedings of the Conference on Finite GroupsRepresentations of Finite Groups Bertram A. F. Wehrfritz Bertram Huppert H.E. Rose J. S. Lomont Daniel Gorenstein I. Martin Isaacs Gagen Walter Feit Adolfo Ballester-Bolinches M. J. Collins Martin Burrow Laurens Jansen Stephen D. Smith B. Huppert Bruce Cooperstein Gail Gallitano Peter Webb Terrence Gagen William R. Scott Hirosi Nagao

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the theory of groups especially of finite groups is one of the most delightful areas of mathematics its proofs often have elegance and crystalline beauty this textbook is intended for the reader who has been exposed to about three

years of serious mathematics the notion of a group appears widely in mathematics and even further afield in physics and chemistry and the fundamental idea should be known to all mathematicians in this textbook a purely algebraic approach is taken and the choice of material is based upon the notion of conjugacy the aim is not only to cover basic material but also to present group theory as a living vibrant and growing discipline by including references and discussion of some work up to the present day

no detailed description available for character theory of finite groups

introduces the richness of group theory to advanced undergraduate and graduate students concentrating on the finite aspects provides a wealth of exercises and problems to support self study additional online resources on more challenging and more specialised topics can be used as extension material for courses or for further independent study

applications of finite groups focuses on the applications of finite groups to problems of physics including representation theory crystals wave equations and nuclear and molecular structures the book first elaborates on matrices groups and representations topics include abstract properties applications matrix groups key theorem of representation theory properties of character tables simply reducible groups tensors and invariants and representations generated by functions the text then examines applications and subgroups and representations as well as subduced and induced representations fermion annihilation and creation operators crystallographic point groups proportionality tensors in crystals and nonrelativistic wave equations the publication takes a look at space group representations and energy bands symmetric groups and applications topics include molecular and nuclear structures multiplet splitting in crystalline electric fields construction of irreducible representations of the symmetric groups and reality of representations the manuscript is a dependable source of data for physicists and researchers interested in the applications of finite groups

the theory of finite simple groups enjoyed a period of spectacular activity in the 1950s and 1960s the first edition of gorenstein s book was published in 1968 at the time of some of the first major classification results the second edition

was published in 1980 when it was clear that the classification was understood and the proof was within reach gorenstein s treatment of the subject proved prescient as many of the developments between the two editions could be seen as continuations of the material in the book even now the book remains one of the best sources for an introduction to finite groups and the classification of the simple groups gorenstein s insight provides a guiding light through the many pages that have been dedicated to the proof

character theory is a powerful tool for understanding finite groups in particular the theory has been a key ingredient in the classification of finite simple groups characters are also of interest in their own right and their properties are closely related to properties of the structure of the underlying group the book begins by developing the module theory of complex group algebras after the module theoretic foundations are laid in the first chapter the focus is primarily on characters this enhances the accessibility of the material for students which was a major consideration in the writing also with students in mind a large number of problems are included many of them quite challenging in addition to the development of the basic theory using a cleaner notation than previously a number of more specialized topics are covered with accessible presentations these include projective representations the basics of the schur index irreducible character degrees and group structure complex linear groups exceptional characters and a fairly extensive introduction to blocks and brauer characters this is a corrected reprint of the original 1976 version later reprinted by dover since 1976 it has become the standard reference for character theory appearing in the bibliography of almost every research paper in the subject it is largely self contained requiring of the reader only the most basic facts of linear algebra group theory galois theory and ring and module theory

the study of finite groups factorised as a product of two or more subgroups has become a subject of great interest during the last years with applications not only in group theory but also in other areas like cryptography and coding theory it has experienced a big impulse with the introduction of some permutability conditions the aim of this book is to gather order and examine part of this material including the latest advances made give some new approach to some topics and present some new subjects of research in the theory of finite factorised groups some of the topics covered by this book include groups whose subnormal subgroups are normal permutable or sylow permutable products of nilpotent groups and an exhaustive structural study of totally and mutually permutable products of finite

groups and their relation with classes of groups this monograph is mainly addressed to graduate students and senior researchers interested in the study of products and permutability of finite groups a background in finite group theory and a basic knowledge of representation theory and classes of groups is recommended to follow it

representation theory and character theory have proved essential in the study of finite simple groups since their early development by frobenius the author begins by presenting the foundations of character theory in a style accessible to advanced undergraduates that requires only a basic knowledge of group theory and general algebra this theme is then expanded in a self contained account providing an introduction to the application of character theory to the classification of simple groups the book follows both strands of the theory the exceptional characteristics of suzuki and feit and the block character theory of brauer and includes refinements of original proofs that have become available as the subject has grown

concise graduate level exposition of the theory of finite groups including the theory of modular representations topics include representation theory of rings with identity representation theory of finite groups applications of the theory of characters construction of irreducible representations and modular representations rudiments of linear algebra and knowledge of group theory helpful prerequisites exercises bibliography appendix 1965 edition

classification of finite simple groups cfsg is a major project involving work by hundreds of researchers the work was largely completed by about 1983 although final publication of the quasithin part was delayed until 2004 since the 1980s cfsg has had a huge influence on work in finite group theory and in many adjacent fields of mathematics this book attempts to survey and sample a number of such topics from the very large and increasingly active research area of applications of cfsg the book is based on the author s lectures at the september 2015 venice summer school on finite groups with about 50 exercises from original lectures it can serve as a second year graduate course for students who have had first year graduate algebra it may be of particular interest to students looking for a dissertation topic around group theory it can also be useful as an introduction and basic reference in addition it indicates fuller citations to the appropriate literature for readers who wish to go on to more detailed sources

17 t l it cifdr wei unsre weisheit einfalt ist from lohengrin richard wagner at the time of the appearance of the first volume of this work in 1967 the tempestuous development of finite group theory had already made it virtually impossible to give a complete presentation of the subject in one treatise the present volume and its successor have therefore the more modest aim of giving descriptions of the recent development of certain important parts of the subject and even in these parts no attempt at completeness has been made chapter vii deals with the representation theory of finite groups in arbitrary fields with particular attention to those of non zero charac teristic that part of modular representation theory which is essentially the block theory of complex characters has not been included as there are already monographs on this subject and others will shortly appear instead we have restricted ourselves to such results as can be obtained by purely module theoretical means

introduces the basic concepts of group theory the book is rich in illustrative examples which will help the readers to understand and appreciate this beautiful area of mathematics the topics discussed include permutation groups and sylow theorems representation and characters solvable groups frobenius groups

this graduate level text provides a thorough grounding in the representation theory of finite groups over fields and rings the book provides a balanced and comprehensive account of the subject detailing the methods needed to analyze representations that arise in many areas of mathematics key topics include the construction and use of character tables the role of induction and restriction projective and simple modules for group algebras indecomposable representations brauer characters and block theory this classroom tested text provides motivation through a large number of worked examples with exercises at the end of each chapter that test the reader s knowledge provide further examples and practice and include results not proven in the text prerequisites include a graduate course in abstract algebra and familiarity with the properties of groups rings field extensions and linear algebra

these notes derive from a course of lectures delivered at the university of florida in gainesville during 1971 2 dr gagen presents a simplified treatment of recent work by h bender on the classification of non soluble groups with abelian sylow 2 subgroups together with some background material of wide interest the book is for research students and

specialists in group theory and allied subjects such as finite geometries

proceedings of the conference on finite groups provides information pertinent to the fundamental aspects of finite group theory this book presents the problem of characterizing simple groups in terms of the local structure of a group organized into five parts encompassing 43 chapters this book begins with an overview of the characterization of the chevalley groups over fields of odd order and indicates the role of this characterization in the theory of component type groups this text then examines the structure as well as the representations of specific simple groups other chapters consider the general theory of representations and characters of finite groups this book discusses as well permutation groups and the connection between group theory and geometry the final chapter deals with finite solvable groups as well as the theory of formations this book is a valuable resource for mathematicians graduate students and research workers

representations of finite groups provides an account of the fundamentals of ordinary and modular representations this book discusses the fundamental theory of complex representations of finite groups organized into five chapters this book begins with an overview of the basic facts about rings and modules this text then provides the theory of algebras including theories of simple algebras frobenius algebras crossed products and schur indices with representation theoretic versions of them other chapters include a survey of the fundamental theory of modular representations with emphasis on brauer characters this book discusses as well the module theoretic representation theory due to green and includes some topics such as burry carlson s theorem and scott modules the final chapter deals with the fundamental results of brauer on blocks and fong s theory of covering and includes some approaches to them this book is a valuable resource for readers who are interested in the various approaches to the study of the representations of groups

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