

Topics In Finite Groups Gagen Terence M

Finite Groups Character Theory of Finite Groups A Course on Finite Groups Applications of Finite Groups Characters of Finite Groups Finite Groups Character Theory of Finite Groups Representations and Characters of Finite Groups Theory of Finite Groups Topics in Finite Groups Topics in Finite Groups Representation Theory of Finite Groups A Course in Finite Group Representation Theory Finite Group Theory Characters and Blocks of Finite Groups Topics in Finite Groups Blocks of Finite Groups and Their Invariants Finite Groups: A Second Course On Group Theory The Theory of Finite Groups Representing Finite Groups Bertram A. F. Wehrfritz Bertram Huppert H.E. Rose J. S. Lomont Walter Feit Daniel Gorenstein I. Martin Isaacs M. J. Collins Laurens Jansen Terrence Gagen Terrence Gagen Martin Burrow Peter Webb M. Aschbacher Gabriel Navarro Gail Gallitano Benjamin Sambale Bert Wehrfritz Hans Kurzweil Ambar N. Sengupta

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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

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

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

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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

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

this second edition develops the foundations of finite group theory for students already exposed to a first course in algebra it serves as a text for a course on finite groups for the reader with some mathematical sophistication but limited knowledge of finite group theory the book supplies the basic background necessary to begin to read journal articles in the field it also provides the specialist in finite group theory with a reference on the foundations of the subject unifying themes include the classification theorem and the classical linear groups lie theory appears in chapters on coxeter groups root systems buildings and tits systems this second edition has been considerably improved with a completely rewritten chapter 15 considering the 2 signalizer functor theorem and the addition of an appendix containing solutions to exercises

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

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

providing a nearly complete selection of up to date methods and results on block invariants with respect to their defect groups this book covers the classical theory pioneered by brauer the modern theory of fusion systems introduced by puig the geometry of numbers developed by minkowski the classification of finite simple groups and various computer assisted methods in a powerful combination these tools are applied to solve many special cases of famous open conjectures in the representation theory of finite groups most of the material is drawn from peer reviewed journal articles but there are also new previously unpublished results in order to make the text self contained detailed proofs are given whenever possible several tables add to the text s usefulness as a reference the book is aimed at experts in group theory or representation theory who may wish to make use of the presented ideas in their research

the theory of groups especially of finite groups is one of the most delightful areas of mathematics its proofs often having great elegance and 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

from reviews of the german edition this is an exciting text and a refreshing contribution to an area in which challenges continue to flourish and to captivate the viewer even though representation theory and constructions of simple groups have been omitted the text serves as a springboard for deeper study in many directions mathematical reviews

this graduate textbook presents the basics of representation theory for finite groups from the point of view of semisimple algebras and modules over them the presentation interweaves insights from specific examples with development of general and powerful tools based on the notion of semisimplicity the elegant ideas of commutant duality are introduced along with an introduction to representations of unitary groups the text progresses systematically and the presentation is friendly and inviting central concepts are revisited and explored from multiple viewpoints exercises at the end of the chapter help reinforce the

material representing finite groups a semisimple introduction would serve as a textbook for graduate and some advanced undergraduate courses in mathematics prerequisites include acquaintance with elementary group theory and some familiarity with rings and modules a final chapter presents a self contained account of notions and results in algebra that are used researchers in mathematics and mathematical physics will also find this book useful a separate solutions manual is available for instructors

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