Finite Group Theory

I. Martin Isaacs

Finite Group Theory Finite Group Theory

Dennis Morris

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Finite Group Theory I. Martin Isaacs,2023-01-24 The text begins with a review of group actions and Sylow theory It includes semidirect products the Schur Zassenhaus theorem the theory of commutators coprime actions on groups transfer theory Frobenius groups primitive and multiply transitive permutation groups the simplicity of the PSL groups the generalized Fitting subgroup and also Thompson s J subgroup and his normal p complement theorem Topics that seldom or never appear in books are also covered These include subnormality theory a group theoretic proof of Burnside s theorem about groups with order divisible by just two primes the Wielandt automorphism tower theorem Yoshida s transfer theorem the principal ideal theorem of transfer theory and many smaller results that are not very well known Proofs often contain original ideas and they are given in complete detail In many cases they are simpler than can be found elsewhere The book is largely based on the author s lectures and consequently the style is friendly and somewhat informal Finally the book includes a large collection of problems at disparate levels of difficulty These should enable students to practice group theory and not just read about it Martin Isaacs is professor of mathematics at the University of Wisconsin Madison Over the years he has received many teaching awards and is well known for his inspiring teaching and lecturing He received the University of Wisconsin Distinguished Teaching Award in 1985 the Benjamin Smith Reynolds Teaching Award in 1989 and the Wisconsin Section MAA Teaching Award in 1993 to name only a few He was also honored by being the selected MAA P lya Lecturer in 2003 2005 **A Course on Finite Groups** H.E. Rose,2009-12-16 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 **Finite Groups** Bertram A. F. Wehrfritz,1999 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 *Character Theory of Finite Groups* Bertram Huppert,2011-04-20 No detailed description available for Character Theory of Finite Groups *Finite Groups: A Second Course On Group Theory* Bert Wehrfritz,1999-11-10 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   The Theory of Groups Marshall Hall,1999 Perhaps the first truly famous book devoted primarily to finite groups was Burnside s book From the time of its second edition in 1911 until the appearance of Hall s book there were few books of similar stature Hall s book is still considered to be a classic source for fundamental results on the representation theory for finite groups the Bumside problem extensions and cohomology of groups p groups and much more For the student who has already had an introduction to group theory there is much treasure to be found in Hall s Theory of Groups From the preface to the second edition 1976 The present volume is intended to serve a dual purpose The first ten chapters are meant to be the basis for a course in group theory and exercises have been included at the end of each of these chapters The last ten chapters are meant to be useful as optional material in a course or as reference material When used as a text the book is intended for students who have had an introductory course in modern algebra comparable to a course taught from Birkhoff and Mac Lane s A Survey of Modern Algebra I have tried to make this book as self contained as possible but where background material is needed references have been given chiefly to Birkhoff and Mac Lane   **Finite Groups** Daniel Gorenstein,2007 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

   Representations and Characters of Finite Groups M. J. Collins,1990-03-22 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   **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   Applications of Finite Groups J. S. Lomont,2014-05-12 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 Groups Hans Kurzweil,Bernd Stellmacher,2006-03-04 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 One who completes this text not only gains an appreciation of both the depth and the breadth of the theory of finite groups but also witnesses the evolutionary development of concepts that form a basis for current investigations This is accomplished by providing a thread that permits a natural flow from one concept to another rather than compartmentalizing Operators on sets and groups are introduced early and used effectively throughout The bibliography provides excellent supplemental support The text is tight there is no fluff The format builds on concepts essential for later expansion and associated reading On occasion results are stated without proof continuity is maintained Several proofs are provided free of representation theory on which the originals were based More generally the proofs are direct perhaps at times brief The focus is on the underlying structural components with selected details left to the reader As a result the reader develops the maturity required for approaching the literature with confidence The first eight chapters have an abundance of exercises not prorated and some of the more challenging are addressed later in the text Due to the nature of the material fewer exercises appear in the remaining chapters H Bechtell Mathematical Reviews   Theory of Finite Groups Laurens Jansen,Michael Boon,1967   Finite Group Theory M. Aschbacher,2000-06-26 During the last 40 years the theory of finite groups has developed dramatically The finite simple groups have been classified and are becoming better understood Tools exist to reduce many questions about arbitrary finite

groups to similar questions about simple groups Since the classification there have been numerous applications of this theory in other branches of mathematics Finite Group Theory develops the foundations of the theory of finite groups It can serve as a text for a course on finite groups for students already exposed to a first course in algebra It could supply the background necessary to begin reading journal articles in the field For specialists it also provides a reference on the foundations of the subject 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   *Finite Groups II* B. Huppert,N. Blackburn,2012-12-06 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   *Introduction to Group Theory* Oleg Vladimirovič Bogopolʹskij,2008 This book quickly introduces beginners to general group theory and then focuses on three main themes finite group theory including sporadic groups combinatorial and geometric group theory including the Bass Serre theory of groups acting on trees the theory of train tracks by Bestvina and Handel for automorphisms of free groups With its many examples exercises and full solutions to selected exercises this text provides a gentle introduction that is ideal for self study and an excellent preparation for applications A distinguished feature of the presentation is that algebraic and geometric techniques are balanced The beautiful theory of train tracks is illustrated by two nontrivial examples Presupposing only a basic knowledge of algebra the book is addressed to anyone interested in group theory from advanced undergraduate and graduate students to specialists   *Finite Group Theory* M. Aschbacher,2000-07-03 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   <u>Finite Groups</u> Jean-Pierre Serre,2016 A short introduction to finite group

theory **Finite Groups - a Simple Introduction** Dennis Morris,2016-09-16 This book is unique in that it presents finite group theory through permutation matrices Such a presentation leads to a much less cluttered and clearer presentation than is to be found in other books on group theory The book is suitable for readers with no formal training in group theory and to individuals presently studying this subject Group theory is playing an increasing role in modern physics and knowledge of group theory is becoming essential to an understanding of physics Hence this book will also be of interest to physics students and to people with a general interest in physics After presenting finite group theory the book concludes with a skeleton outline of how the nature of our 4 dimensional space time derives from the finite groups **Character Theory of Finite Groups** I. Martin Isaacs,2006-11-21 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 Form of Finite Groups* Stephen G Odaibo M D,2016-01-02 Group theory is the language in which our natural world is expressed Everything from Einstein s theory of relativity to the inner workings of electrons protons and quarks are encoded in the language of group theory This book on finite group theory is a great resource for both undergraduate and graduate students in the Mathematical sciences It will also be found indispensable by anyone serious about acquiring a fundamental understanding of our physical world

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