

The Structures of Non-Coprime Graphs for Finite Groups from Dihedral Groups with Regular Composite Orders

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Abstract

For any finite group, the non-coprime graph of the group is a graph with vertices consisting of all non-identity elements of the group. Two different vertices are considered adjacent if their orders are not coprime, meaning their greatest common divisor (\gcd) is not equal to one. Misuki provides the structure of the non-coprime graph for the dihedral group when the order is a prime power. We establish a more general property for cases where the order of the group is a regular composite number, discovering that the structure of the non-coprime graph for a dihedral group can be partitioned into some number of complete subgraphs.

Keywords: dihedral group; disjoint subgraph; non-coprime graph.

Abstrak

Untuk sebarang grup hingga, graf non-koprima dari grup tersebut adalah graf dengan simpul yang terdiri dari semua elemen non-identitas dari grup tersebut. Dua simpul yang berbeda dianggap bertetangga jika orde mereka tidak saling prima, artinya pembagi terbesar bersama (\gcd) mereka tidak sama dengan satu. Misuki memberikan struktur graf non-koprima untuk grup dihedral ketika ordennya adalah pangkat prima. Pada studi ini didapatkan sifat yang lebih umum ketika orde grup adalah bilangan komposit biasa. Didapatkan juga bahwa struktur graf non-koprima dari grup dihedral dapat dipartisi menjadi beberapa subgraf lengkap.

Kata Kunci: graf non-koprima; grup dihedral; subgraph disjoint.

2020MSC: 05C25, 05C69, 20D60.

1. INTRODUCTION

The current focus of research revolves around the graph representation of finite groups. Ma conducted a study related to group representation called coprime graphs [1], then Mansoori 2016 also conducted research related to group representation called non-coprime graphs [2], then new studies emerged related to more specific group representations in graphs. For example, studies have already been conducted on the characterizations and numerical invariants of several graph representations, including their topological indices. These studies include the coprime graph from a dihedral group, an integer group modulo, or a generalized quaternion group, as well as non-coprime graphs from a dihedral group [3]–[10].

In addition to the mentioned studies, research has also explored various other types of graphs, such as prime graphs, intersection graphs, nilpotent graphs, and commuting graphs. These

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Finite Groups Finite Groups

Walter Feit



Finite Groups Finite Groups:

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

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

Character Theory of Finite Groups Bertram Huppert, 2011-04-20 No detailed description available for Character Theory of Finite Groups

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

[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 Group Theory](#) I. Martin Isaacs, 2008 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 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 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 *The Santa Cruz Conference on Finite Groups* Bruce Cooperstein, Geoffrey Mason, 1980 *Characters of Finite Groups* Walter Feit, 1967

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, 2014-05-05
 Concise graduate level exposition covers representation theory of rings with identity representation theory of finite groups more Exercises Appendix 1965 edition div

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

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

Theory of Finite Groups Laurens Jansen, Michael Boon, 1967

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

Cohomology of Finite Groups Alejandro Adem, R. James Milgram, 2013-06-29
 The cohomology of groups has since its beginnings in the 1920s and 1930s been the stage for significant interaction between algebra and topology and has led to the creation of important new fields in mathematics like homological algebra and algebraic K theory This is the first book to deal comprehensively with the cohomology of finite groups it introduces the most important and useful algebraic and topological techniques and describes the interplay of the subject with those of homotopy theory representation theory and group actions

The combination of theory and examples together with the techniques for computing the cohomology of important classes of groups including symmetric groups alternating groups finite groups of Lie type and some of the sporadic simple groups enable readers to acquire an in depth understanding of group cohomology and its extensive applications **Finite Groups** Jean-Pierre Serre, 2016 A short introduction to finite group theory **Relation Modules of Finite Groups** Karl W. Gruenberg, 1976 Reproduces a course of ten lectures given by the author at the NSF Regional Conference at the University of Wisconsin Parkside in July 1974 The course was constructed so that only a modicum of either group theory or module theory would be presupposed of the audience **Representations of Finite Groups** Hirosi Nagao, Yukio Tsushima, 2014-05-10 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 Burnside'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

Embracing the Melody of Appearance: An Psychological Symphony within **Finite Groups Finite Groups**

In a global consumed by monitors and the ceaseless chatter of fast interaction, the melodic beauty and mental symphony produced by the published word frequently diminish into the background, eclipsed by the relentless noise and disturbances that permeate our lives. However, located within the pages of **Finite Groups Finite Groups** an enchanting fictional prize full of organic feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, this interesting masterpiece conducts viewers on an emotional trip, well unraveling the hidden melodies and profound influence resonating within each carefully crafted phrase. Within the depths with this emotional assessment, we shall investigate the book is main harmonies, analyze its enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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