On connected components and perfect codes of proper order graphs of finite groups

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Abstract. Let G be a finite group with the identity element e. The proper order graph of G, denoted by $\mathscr{S}^*(G)$, is an undirected graph with a vertex set $G \setminus \{e\}$, where two distinct vertices x and y are adjacent whenever $\sigma(x) \mid \sigma(y)$ or $\sigma(y) \mid \sigma(x)$, where $\sigma(x)$ and $\sigma(y)$ are the orders of x and y, respectively. This paper studies the perfect codes of $\mathscr{S}^*(G)$. We characterize all connected components of a peoper order graph and give a necessary and sufficient condition for a connected proper order graph. We also determine the perfect codes of the proper order graphs of a few classes of finite groups, including nilpotent groups, CP-groups, dihedral groups and generalized quaternion groups.

Keywords: perfect code, proper order graph, finite group.

I. INTRODUCTION

In the field of algebraic graph theory, a popular and interesting research topic is groups and graphs, which is the study of the graph representations of an algebraic structure, such as a group or a ring, for example, the celebrated Cayley graphs over groups. Furthermore, graphs associated with some algebraic structures have been actively investigated in the literature since they have valuable applications, see, for example, Cayley graphs in data mining [18]. They are also related to the automata theory [16].

Another well-known graph representation by a group is the power graph. Let G be a group. The directed power graph of G is a digraph with a vertex set G, and for distinct $x, y \in G$, there exists a directed edge from x to y if and only if y is a power of x. In 2000, Kelarev and Quinn [17] first introduced the directed power graph of a group. In 2009, Chakrabarty et al. [6] introduced the undirected power graph $\mathcal{P}(S)$ of a semigroup S, which is an undirected graph with a vertex set S, and two distinct vertices are adjacent if one is a power of the other. Since a group is also a semigroup, the definition of an undirected power graph $\mathcal{P}(G)$ of a group G is also introduced in [6]. In the past ten years, the study of power graphs has been growing. See, for example, the two survey papers [2,20] containing almost all the results and open questions on power graphs. In recent years, some authors generalized and modified the concept of a power graph in various ways, such

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Proceedings of the Second International Conference on the Theory of Groups M.F. Newman, 2013-12-11

Annotation This volume consists of papers presented to the Second International Conference on the Theory of Groups held in Canberra in August 1973 together with areport by the chairman of the Organizing Committee and a collection of problems

The manuscripts were typed by Mrs Geary the bulk of the bibliographie work was done by Mrs Pinkerton and a number of colleagues helped with proof reading Professor Neumann Drs Cossey Kovacs MeDougall Praeger Pride Rangaswamy and

Stewart I here record my thanks to all these people for their lightening of the editorial burden M F Newman CONTENTS 1

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an abundance of new material many new ideas new questions and new conjectures arefully incorporated within the framework of the theory as the various authors see it An original objective of the Conference and of this report was to supply a much needed review of and supplement to the theory since the publication of the three standard works MONTGOMERY and ZIPPIN Topological Transformation Groups Interscience Pub lishers 1955 BOREL et al Seminar on Transformation Groups Annals of Math Surveys 1960 and CONNER and FLOYD Differential Periodic Maps Springer Verlag 1964 Considering this objective ambitious enough it was decided to limit the survey to that part of Transformation Group Theory derived from the Montgomery School Ischia Group Theory 2008 - Proceedings Of The Conference In Group Theory Mariagrazia Bianchi, Patrizia Longobardi, Mercede Maj, Carlo Maria Scoppola, 2009-07-30 The volume contains a collection of research articles by leading experts in group theory and reports of several accessible surveys of recent research in the area The compilation provide an overview of the diversity of themes and applications that interest today s group theorists The topics covered in this volume include character theory combinatorial group theory varieties of groups conjugacy classes profinite groups graphs connected with groups subgroup structure representation theory **Group Theory - Proceedings Of The** Biennial Ohio State - Denison Conference Ronald Solomon, Surinder K Sehgal, 1993-09-30 This volume is a collection of invited papers on the theory of groups most of which were presented at the biennial Ohio State Denison Conference May 1992 in memory of Hans Zassenhaus These papers treat important topics in the theory of p groups solvable groups finitely presented groups arithmetic groups monodromy groups and the general structure and representation theory of groups Of particular note are papers by John Walter on root systems by Leonard Scott on integral equivalence of permutation Conference Mariagrazia Bianchi, Patrizia Longobardi, Mercede Maj, Carlo Maria Scoppola, 2011-09-01 The papers in this volume represent the proceedings of the Conference entitled Ischia Group Theory 2010 which took place at NH Ischia Thermal SPA Resort Ischia Naples Italy from April 14 to April 17 2010 The articles in this volume are contributions by speakers and participants of the Conference The volume contains a collection of research articles by leading experts in group theory and some accessible surveys of recent research in the area Together they provide an overview of the diversity of themes and applications that interest group theorists today Topics covered in this volume include finite p groups character and representation theory combinatorial group theory varieties of groups profinite and pro p groups linear groups graphs connected with groups subgroup structure finiteness conditions radical rings conjugacy classes automorphisms

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