Abstract

Graph Theory has been realized as one of the most flourishing branches of Mathematics of recent origin with wide applications to combinatorial problems and to classical algebraic problems. The theory of domination in graphs is an emerging area of research in graph theory today. It has been studied extensively and finds applications to various branches of Science & Technology.

Frucht and Harary [6] introduced a new product on two graphs G1 and G2, called corona product denoted by G1(G2. The object is to construct a new and simple operation on two graphs G1 and G2 called their corona, with the property that the group of the new graph is in general isomorphic with the wreath product of the groups of G1 and of G2.

In this paper some results on minimal total edge dominating sets and functions of corona product graph of a cycle with a star are discussed.
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Index Terms

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Keywords

Corona Product, total edge dominating set, total edge domination number, total edge
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