Abstract

Let $G = (V; E)$ be a connected graph. A subset $S$ of $V(G)$ is called a boundary dominating set if every vertex of $V - S$ is boundary dominated by some vertex of $S$. The minimum taken over all boundary dominating sets of a graph $G$ is called the boundary domination number of $G$ and is denoted by $\gamma_b(G)$. We define the boundary domatic number in graphs. Exact values of of Wheel Graph Families are obtained and some other interesting results are established.

References

2. F. Buckley and F. Harary, Distance in Graphs, Addison- Wesley Reading, 1990.
4. T.W. Haynes, S.T. Hedetniemi and P.J. Slater, Fundamentals of Domination in Graphs,

Index Terms

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Keywords

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