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 Wheel Graph Families are obtained and some other interesting results are established.

References

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**Index Terms**

Computer Science  
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**Keywords**

Boundary dominating set, Boundary domination number, Boundary domatic number