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 γ_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,
Boundary Domination of Line and Middle Graph of Wheel Graph Families


Index Terms

Computer Science Applied Mathematics

Keywords

Boundary dominating set, Boundary domination number, Boundary domatic number