

Edge Cut Domination in Graphs

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In 2001, Neeralagi and Nayak introduced the split edge domination number. To indicate more clearly the defining property of this parameter, we adopt the term edge cut domination number. An edge dominating set S of a graph $G = (V, E)$ is an *edge cut dominating set* if the subgraph $G - S$ is disconnected. The *edge cut domination number* $\gamma_{ct}(G)$ of G is the minimum cardinality of an edge cut dominating set of G . In this talk we study the edge cut domination number as well as its relationships with other parameters of a graph.

Keywords: edge domination, edge cut