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EDGE SEMITOTAL - POINT DOMINATION IN GRAPHS

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Abstract

Let G = (V;E) be a graph. Then the semi total-point graph is denoted by T2(G) = H. Let the vertices and edges of G be elements of G. An edge dominating set F of a graph H is an edge semi total-point dominating set of H if every edge not in F is adjacent to at least one edge in F. The edge semi total-point domination number etp(G) of G is the minimum cardinality of an edge semi total-point dominating set of H. In this paper many bounds on etp(G) are obtained in terms of elements of G but not the elements of H. Also their relationships with other domination parameters are investigated.

Key Words: Domination number, Edge domination number, Edge semi total-point domination number.

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