International J. of Math. Sci. & Engg. Appls. (IJMSEA)
ISSN 0973-9424, Vol. 6 No. I (January, 2012), pp. 337-342

THE BONDAGE NUMBER OF A GRAPH

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Abstract

The bondage number $b(G)$ of a non empty graph G is the minimum number of edger whose removal from G results in a graph having domination number greater than the domination number of G. In this paper we characterize graphs for which $b(G) = p - 1$ and $b(G) = (\gamma - 1)\dot{+}1$. We also introduce the concept of uniform bondage number $b_u(G)$ and determine the exact value of $b_u(G)$ for several classes of graphs.

Key Words : *Domination number, Bondage number, Uniform bondage number.*

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