ON SOME DOMINATION PARAMETERS OF CORONA
GRAPHS

ISMAEL GONZÁLEZ YERO

Departament d’Enginyeria Informàtica i Matemàtiques
Universitat Rovira i Virgili
Av. Països Catalans 26, 43007 Tarragona, Spain.

e-mail: ismael.gonzalez@urv.cat

A set $S$ of vertices of a graph $G$ is a dominating set in $G$ if every vertex outside of $S$ is adjacent to at least one vertex belonging to $S$. A domination parameter of $G$ is related to those structures of a graph satisfying some domination property together with other conditions on the vertices of $G$. Here, we investigate several domination parameters in corona graphs. For instance, we obtain bounds for the Roman dominating number of corona graphs. Moreover, we give closed formulae for the $k$-domination number, the distance-$k$ domination number, the independence domination number, the domatic number and the idomatic number of corona graphs.

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References


