

# ON SOME DOMINATION PARAMETERS OF CORONA GRAPHS

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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.

**Keywords:** Domination, independence, Roman domination.

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