

## عنوان مقاله:

A note on the total domination supercritical graphs

## محل انتشار:

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## خلاصه مقاله:

Let  $G$  be a connected spanning subgraph of  $K_{\{s,s\}}$  and let  $H$  be the complement of  $G$  relative to  $K_{\{s,s\}}$ . The graph  $G$  is  $k$ -supercritical relative to  $K_{\{s,s\}}$  if  $\gamma_t(G)=k$  and  $\gamma_t(G+e)=k-2$  for all  $e \in E(H)$ . The 2002 paper by T.W. Haynes, M. A. Henning and L.C. van der Merwe, "Total domination supercritical graphs with respect to relative complements" that appeared in *Discrete Mathematics*, 258 (2002), 361-371, presents a theorem (Theorem 11) to produce  $(2k+2)$ -supercritical graphs relative to  $K_{\{2k+1, 2k+1\}}$  of diameter 5, for each  $k \geq 2$ . However, the families of graphs in their proof are not the case. We present a correction of this theorem.

## کلمات کلیدی:

Total domination, Supercritical, Diameter

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1319386>

