

عنوان مقاله:

PAIRED-DOMINATION NUMBER OF A GRAPH AND ITS COMPLEMENT

محل انتشار:

سی و هشتمین کنفرانس ریاضی ایران (سال: 1386)

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خلاصه مقاله:

A paired-dominating set of a graph $G=(V,E)$ with no isolated vertex is a dominating set of vertices inducing a graph with a perfect matching. The paired-domination number of G , denoted by $ypr(G)$, is the minimum cardinality of a paired-dominating set of G . We consider graphs of order $n \geq 6$, minimum degree δ such that G and G' do not have isolated vertex and we shall prove that - if $ypr(G) > 4$ and $ypr(G') > 4$, then $ypr(G) + ypr(G') \leq 3 + \min \{\delta(G), \delta(G')\}$. - if $\delta(G) \geq 2$ and $\delta(G') \geq 2$, then $ypr(G) + ypr(G') \leq 2n/3 + 4$ and $ypr(G) + ypr(G') \leq 2n/3 + 2$ if moreover $n \geq 21$

کلمات کلیدی:

paired-domination number, Nordhaus- Guddum inequalities

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