

POWER DOMINATION IN KNÖDEL GRAPHS AND HANOI GRAPHS

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Abstract

In this paper, we study the power domination problem in Knödel graphs $W_{\Delta, 2\nu}$ and Hanoi graphs H_p^n . We determine the power domination number of $W_{3, 2\nu}$ and provide an upper bound for the power domination number of $W_{r+1, 2^{r+1}}$ for $r \geq 3$. We also compute the k -power domination number and the k -propagation radius of H_p^2 .

Keywords: domination, power domination, Knödel graph, Hanoi graph.

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