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The p-Domination Number of Complete Multipartite Graphs

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Let $G=(V,E)$ be a graph and p a positive integer. A subset $S\subseteq V$ is called a p-dominating set of G if every vertex not in S has at least p neighbors in S. The p-domination number is the minimum cardinality of a p-dominating set in G. In this paper, we establish an exact formula of the p-domination number of all complete multipartite graphs for arbitrary positive integer p.

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