Perfect Domination on Knights

Todd Fenstermacher*, Soumendra Ganguly, Renu C. Laskar Clemson University

For a graph $G = (V, E)$, a subset S of V is a *perfect dominating set* of G if every vertex not in S is adjacent to exactly one vertex in S. Bounds on perfect domination sets of knights on $n \times n$ chessboards are studied. Other parameters related to perfect dominating sets are also discussed.

Keywords: chessboard, knights, perfect domination