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Connected domatic number of a graph. (English) [Zbl 0625.05042](#)
Math. Slovaca 36, 387-392 (1986).

The connected domatic number of a graph G is the maximum number of subsets in a partition of $V(G)$, each of whose subsets D has the properties that (i) the subgraph induced by it is connected and (ii) for each vertex $x \in V(G) - D$, there exists a vertex $y \in D$ adjacent to x . The connected domatic number is well defined only for connected graphs. The author studies a number of properties of the connected domatic number.

Reviewer: G.Chartrand

MSC:

[05C99](#) Graph theory

Cited in **6** Documents

Keywords:

vertex partition; connected domatic number; maximum number of subsets

Full Text: [EuDML](#)

References:

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