

Beasley, LeRoy B.; Pullman, Norman J.

Linear operators preserving properties of graphs. (English) Zbl 0696.05049

Combinatorics, graph theory, and computing, Proc. 20th Southeast Conf., Boca Raton/FL (USA) 1989, Congr. Numerantium 70, 105-112 (1990).

[For the entire collection see [Zbl 0688.00002](#).]

An operator T on a graph G is said to be linear if it preserves unions. Various properties are proved of linear operators that preserve planarity, k colorability, k edge colorability, the chromatic number and the edge chromatic number.

Reviewer: [H.N.V.Temperley](#)

MSC:

[05C99](#) Graph theory

Cited in 1 Review

Keywords:

[property preservation](#); [linear operators](#); [planarity](#); [colorability](#); [chromatic number](#)