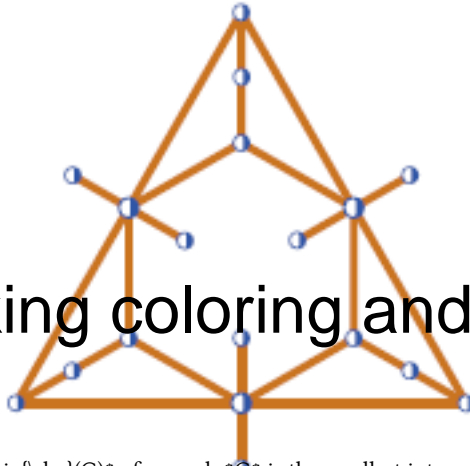


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Packing coloring and grids



Content :

The packing chromatic number $\chi_{\rho}(G)$ of a graph G is the smallest integer k such that vertices of G can be partitioned into disjoint classes $X_{\{1\}}, \dots, X_{\{k\}}$ where vertices in $X_{\{i\}}$ have pairwise distance greater than i .

We improve bounds on the packing chromatic number of the square and hexagonal grids and discuss the packing chromatic number of distance graphs, which sometimes look like a grid.

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