

Rainbow Trees in Graphs

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An edge-colored tree T is a rainbow tree if no two edges of T are colored the same. For a nontrivial connected graph G of order n and an integer k with $2 \leq k \leq n$, a k -rainbow coloring of G is an edge coloring having the property that for every set S of k vertices of G , there is a rainbow tree T containing the vertices of S . Related topics are discussed and some results are presented.