



LOCAL EDGE ANTIMAGIC COLORING OF GRAPHS

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Abstract

All graphs considered in this paper are finite, simple and connected graphs. Let $G(V, E)$ be a graph with the vertex set V and the edge set E , and let w be the edge weight of graph G . Then a bijection $f : V(G) \rightarrow \{1, 2, 3, \dots, |V(G)|\}$ is called a local edge labeling if for adjacent edges e_1 and e_2 , $w(e_1) \neq w(e_2)$, where for $e = uv \in G$, $w(e) = f(u) + f(v)$. It is known that any local edge antimagic labeling induces a proper edge coloring of G if each edge e is assigned the color $w(e)$. The local edge antimagic chromatic number $\gamma_{lea}(G)$

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