FRACTIONAL Q-EDGE COLORINGS OF GRAPHS

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An additive hereditary property of graphs is a class of simple graphs which is closed under unions, subgraphs, and isomorphism. Let Q be an additive hereditary property of graphs. A Q-edge coloring of a simple graph G is a coloring of the edges of G such that for each color i the edges colored by i induce a subgraph of property Q. In this paper we present some results on fractional Q-edge colorings. We determine the fractional Q-edge chromatic index for matroidal properties of graphs.

Keywords: fractional coloring, graph property.

AMS Subject Classification: 05C15, 05C70.