

## ACYCLIC EDGE COLOURING OF GRAPHS

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An *acyclic edge  $k$ -colouring* of a graph  $G$  is a proper edge  $k$ -colouring of  $G$  such that there are no bichromatic cycles. In other words, for every two distinct colours  $i$  and  $j$ , the subgraph induced in  $G$  by all the edges which have colour  $i$  or  $j$  is acyclic. The *acyclic chromatic index* of  $G$  is the minimum  $k$  such that  $G$  has an acyclic edge  $k$ -colouring.

We present new upper bounds for the acyclic chromatic index for some classes of graphs.

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