

ON THE b -CONTINUITY OF GRAPHS

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A b -coloring of a graph is a (proper) coloring of its vertices such that for each color class there is at least one vertex that is adjacent to all possible colors. A k - b -coloring is a b -coloring on k colors.

One peculiar characteristic of b -colorings is that for some graphs there is an integer k such that G has both a $k - 1$ and a $(k + 1)$ - b -coloring but does not have any k - b -colorings. Otherwise, G is called a b -continuous graph.

In this talk I will survey results concerning b -continuity of graphs belonging to special graph classes.