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and **Jize Zhang** and **Jasmine Osorio**. *Puzzling Graphs II*. Preliminary report.

Let P be a puzzle on a graph G with chromatic number $\chi(G)$. An **asolution** to P is a coloring of the vertices of G using $1, 2, \dots, \chi(G)$, the chromatic number of G such that adjacent vertices are assigned different numbers and so that the sums of the numbers assigned to the pieces of the partition are all different. We say G is **apuzzling** if there is a puzzle on G with a unique asolution.

We investigate the concept of apuzzling graphs, detailing classes of graphs that are apuzzling and classes of graphs that aren't. (Received September 24, 2012)