On Mod(4)-Edge-Magic Graphs

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Let $G$ be a $(p, q)$–graph where each edge of $G$ is labeled by a number $1, 2, \ldots, q$ without repetition. The vertex sum for a vertex $v$ is the sum of the labels of edges that are incident to $v$. If the vertex sums equal to a constant (mod $k$) where $k > 2$, then $G$ is said to be Mod($k$)-edge-magic. In this paper we investigate graphs which are Mod($k$)-edge-magic. When $k = p$, the corresponding Mod($p$)-edge-magic graph is the edge-magic graph introduced by Lee (third author), Seah and Tan. In this work we investigate -graphs which are Mod(4)-edge-magic.

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